## **FINAL** OE ENGINEERING DESIGN REPORT FOR ORDNANCE OPERABLE UNIT (OOU) 6 FORMER CAMP CROFT ARMY TRAINING FACILITY SPARTANBURG, SOUTH CAROLINA

**VOLUME I** 

DACA87-95-D-0018

**DELIVERY ORDER 0009** 

Prepared for U.S. ARMY ENGINEERING AND SUPPORT CENTER **HUNTSVILLE, ALABAMA** 

Prepared by

PARSONS ENGINEERING SCIENCE, INC. 57 Executive Park, NE, Suite 500 Atlanta, Georgia

December 1997

O.A. Awosika, P.G., R.E.M.

Project Manager

R. L. Thoem, P.E.

Technical Director

# VOLUME I TABLE OF CONTENTS

|             |        |        |   | Page |
|-------------|--------|--------|---|------|
| LIST OF ACR | ONYM   | IS AND | ABBREVIATIONS   |      |
| IDENTIFICAT | пои о  | F PROJ | ECT PERSONNEL   |      |
| REPORT OR   | GANIZA | ATION  |   |      |
| EXECUTIVE   | SUMM   | ARY    |   | ES-1 |
| 2.20011.2   |        |        |   |      |
| SECTION 1   | SITE   |        | ACTERIZATION  |      |
|             | 1.1    |        | uction  |      |
|             | 1.2    | Site D | escription and Background                               |      |
|             |        | 1.2.1  | Site Location   |      |
|             |        | 1.2.2  | Site History  |      |
|             |        | 1.2.3  | Topography  | 1-4  |
|             |        | 1.2.4  | Geology and Soils                                       | 1-6  |
|             |        | 1.2.5  | Meteorology   | 1-6  |
|             |        | 1.2.6  | Demographics  | 1-6  |
|             |        | 1.2.7  | Sensitive Populations and Ecosystems                    | 1-7  |
|             |        | 1.2.8  | Current Land Use  |      |
|             |        | 1.2.9  | Future Land Use   | 1-15 |
|             | 1.3    |        | atory Issues  |      |
|             |        | 1.3.1  |   |      |
|             |        | 1.3.2  | Assessment of Applicable or Relevant and Appropriate    |      |
|             |        |        | Requirements  | 1-16 |
|             | 1.4    | Public | Involvement   |      |
|             | 1.5    |        | ous Investigation                                       |      |
|             |        | 1.5.1  | Site Survey of Former Camp Croft                        |      |
|             |        | 1.5.2  | Preliminary Assessment Study of OOU6                    |      |
|             |        | 1.5.3  | Site Inspection and Archives Search of Former CCATF     |      |
|             |        | 1.5.4  | Time Critical Removal Action at OOU6                    |      |
|             |        | 1.5.5  | Engineering Evaluation/Cost Analysis at OOU6            | 1-23 |
|             |        | 1.5.6  | Supplemental Archives Search of Former CCATF            | 1-23 |
|             |        |        | Final Supplemental Engineering Report and Site          |      |
|             |        |        | Reconnaissance  | 1-25 |
|             | 1.6    | Curre  | nt Study [Engineering Design] Results, Conclusions, and |      |
|             |        |        | ngs   | 1-25 |
|             |        |        | Investigation Activities and Results                    |      |
|             |        |        | Cita Visit and Applical Investigation                   | 1_26 |

|     |        |   | Page     |
|-----|--------|---|----------|
|     | 1.6.3  | Geographical Information System (GIS), Survey, as | nd       |
|     |        | Mapping   | 1-27     |
|     | 1.6.4  | Area Definitions                                  | 1-28     |
|     | 1.6.5  | Sector Descriptions                               | 1-28     |
|     | 1.6.6  | Geophysical Survey                                | 1-32     |
|     | 1.6.7  | Intrusive Investigation                           | 1-34     |
|     | 1.6.8  | Profile of OE Item Recovered                      | 1-37     |
| 1.7 | Source | e, Nature, and Extent of Contamination            | 1-41     |
|     | 1.7.1  | Introduction                                      | 1-41     |
|     | 1.7.2  | OE Contamination of the Roads and Site Operation  | S        |
|     |        | Buildling Area                                    | 1-41     |
|     | 1.7.3  | Pine Farm   | 1-41     |
|     | 1.7.4  | OE Contamination of the Landfill and Composting   | Area1-46 |
|     |        | 1.7.4.1 Landfill 1 and Compost Area               |          |
|     |        | 1.7.4.2 Proposed Landfill 2                       | 1-47     |
|     | 1.7.5  |   |          |
|     | 1.7.6  | OE Contamination of the Wetlands/Streams Area     | 1-48     |
|     | 1.7.7  | 9_ 03   |          |
|     | 1.7.8  |   |          |
|     | 1.7.9  | <b>_</b>  |          |
|     |        | Conclusion  |          |
| 1.8 |        | Evaluation Summary                                |          |
|     |        | Introduction                                      |          |
|     | 1.8.2  |   |          |
|     |        | 1.8.2.1 OE Risk at the Roads and Site Operation   |          |
|     |        | Building Area                                     |          |
|     |        | 1.8.2.2 OE Risk at the Pine Farm                  |          |
|     |        | 1.8.2.3 OE Risk at the Landfill and Composting    |          |
|     |        | 1.8.2.4 OE Risk at the Pond Area                  |          |
|     |        | 1.8.2.5 OE Risk at the Wetlands/Streams           |          |
|     |        | 1.8.2.6 OE Risk at the Natural Brush/Forest Are   |          |
|     | 102    | 1.8.2.7 OE Risk at the EE/CA Grid 87              |          |
|     | 1.8.3  |   |          |
|     |        | 1.8.3.1 Introduction                              |          |
|     |        |   |          |
|     |        | 1.8.3.3 Conclusions of the OECert Analysis        | 1-30     |

|           |      |        |   | Page         |
|-----------|------|--------|---|--------------|
|           |      | 1.8.4  | Summary   | 1-57         |
| SECTION 2 | IDEN | TIFIC  | ATION AND ANALYSIS OF REMOVAL ACTION                      |              |
|           | OBJE | CTIVE  | S AND ALTERNATIVES  | 2-1          |
|           | 2.1  | Statut | ory Limits on Removal Actions                             | 2-1          |
|           | 2.2  |        | val Action Objectives                                     |              |
|           | 2.3  | Descri | ption of OE Clearance Technologies                        | 2-2          |
|           |      | 2.3.1  | Introduction  | 2-2          |
|           |      | 2.3.2  | OE Detection  | 2-2          |
|           |      | 2.3.3  | OE Recovery   | 2-4          |
|           |      | 2.3.4  |   |              |
|           | 2.4  | Devel  | opment of Alternatives                                    |              |
|           |      | 2.4.1  | Introduction  |              |
|           |      | 2.4.2  | Alternative 1: No Further Action                          |              |
|           |      | 2.4.3  | Alternative 2: Institutional Controls                     |              |
|           |      | 2.4.4  | Alternative 3: Surface Clearance of OE                    |              |
|           |      | 2.4.5  | Alternative 4: Surface Clearance of OE and Institutional  |              |
|           |      |        | Controls  | 2-7          |
|           |      | 2.4.6  | Alternative 5: Surface Clearance of OE with Subsurface    |              |
|           |      |        | Clearance Of Selected Areas to a Depth of One Foot        | 2-7          |
|           |      | 2.4.7  | Alternative 6: Surface Clearance of OE with Subsurface    |              |
|           |      |        | Clearance Of Selected Areas to a Depth of Four Feet       | 2-8          |
|           |      | 2.4.8  | Alternative 7: Surface Clearance of OE with Subsurface    |              |
|           |      |        | Clearance Of Entire Area to a Depth of One Foot           | 2-8          |
|           |      | 2.4.9  | Alternative 8: Surface Clearance of OE with Subsurface    |              |
|           |      |        | Clearance Of Entire Area to a Depth of Four Feet          | 2-9          |
|           | 2.5  | Evalu  | ation of Alternatives                                     | 2-9          |
|           |      | 2.5.1  | Introduction  | 2-9          |
|           |      | 2.5.2  | Effectiveness   | 2-10         |
|           |      | 2.5.3  | Implementability  | 2-10         |
|           |      |        | Cost  |              |
|           |      | 2.5.5  | Application of the Evaluation Criteria by Alternative for |              |
|           |      |        | the Roads and Site Operations Building (Sector 1),        |              |
|           |      |        | Wetlands/Stream Area (Sector 5), and the                  |              |
|           |      |        | Uninvestigated Area (Sector 8)                            | 2-11         |
|           |      | 256    | Application of the Evaluation Criteria by Alternative for | <del>-</del> |
|           |      | 2.5.0  | the Dine Form (Sector 2)                                  | 2_12         |

|       |             |   | Page  |
|-------|-------------|---|-------|
|       | 2.5.6.1     | Alternative 1: No Further Action  | 2-12  |
|       | 2.5.6.2     | Alternative 2: Institutional Controls   | 2-12  |
|       | 2.5.6.3     | Alternative 3: Surface Clearance Only of OE   | 2-13  |
|       |             | Alternative 4: Surface Clearance of OE With   |       |
|       |             | Institutional Controls  | 2-14  |
|       | 2.5.6.5     | Alternative 5: Surface Clearance of OE With   |       |
|       |             | Subsurface Clearance of Selected Areas to   |       |
|       |             | a Depth of One Foot   | 2-14  |
|       | 2.5.6.6     | Alternative 6: Surface Clearance of OE With   |       |
|       |             | Subsurface Clearance of Selected Areas to   |       |
|       |             | a Depth of Four Feet  | 2-14  |
|       | 2.5.6.7     | Alternatives 7. Surface Clearance of OE With  |       |
|       |             | Subsurface Clearance of Entire Area to a  |       |
|       |             | Depth of One Foot   | 2-14  |
|       | 2.5.6.8     | Alternatives 8. Surface Clearance of OE With  |       |
|       |             | Subsurface Clearance of Entire Area to a  |       |
|       |             | Depth of Four Feet  | 2-15  |
| 2.5.7 | Application | on of the Evaluation Criteria by Alternative for                                      |       |
|       | the Land    | dfill and Composting Area (Sector 3)  | 2-15  |
|       |             | Alternative 1: No Further Action  |       |
|       |             | Alternative 2: Institutional Controls   |       |
|       |             | Alternative 3: Surface Clearance Only of OE   | 2-16  |
|       | 2.5.7.4     | Alternative 4: Surface Clearance of OE With   |       |
|       |             | Institutional Controls  | 2-17  |
|       | 2.5.7.5     | Alternative 5: Surface Clearance of OE With   |       |
|       |             | Subsurface Clearance of Selected Areas to   | 2 17  |
|       | 0.536       | a Depth of One Foot   | 2-1 / |
|       | 2.5.7.0     | Alternative 6: Surface Clearance of OE With Subsurface Clearance of Selected Areas to |       |
|       |             | a Depth of Four Feet  | 2 17  |
|       | 2,5,7,7     |   | 2-1 / |
|       | 4.3.1.1     | Subsurface Clearance of Entire Area to a  |       |
|       |             | Depth of One Foot   | 2-18  |
|       | 2578        | Alternative 8: Surface Clearance of OE With   | 2-10  |
|       | 0.1.0 لى س  | Subsurface Clearance of Entire Area to a  |       |
|       |             | Depth of Four Feet  | 2-18  |
|       |             |   | = 10  |

|       |             |   | Page |
|-------|-------------|---|------|
| 2.5.8 | Application | on of the Evaluation Criteria by Alternative for            |      |
|       |             | d Area (Sector 4)   | 2-18 |
|       |             | Alternative 1: No Further Action                            |      |
|       | 2.5.8.2     | Alternative 2: Institutional Controls                       | 2-18 |
|       | 2.5.8.3     | Alternative 3: Surface Clearance of OE                      | 2-19 |
|       | 2.5.8.4     | Alternative 4: Surface Clearance of OE With                 |      |
|       |             | Institutional Controls                                      | 2-19 |
|       | 2.5.8.5     | Alternative 5: Surface Clearance of OE With                 |      |
|       |             | Subsurface Clearance of Selected Areas to                   |      |
|       |             | a Depth of One Foot   | 2-20 |
|       | 2.5.8.6     | Alternative 6: Surface Clearance of OE With                 |      |
|       |             | Subsurface Clearance of Selected Areas to                   |      |
|       |             | a Depth of Four Feet  | 2-20 |
|       | 2.5.8.7     | Alternatives 7: Surface Clearance of OE With                |      |
|       |             | Subsurface Clearance of Entire Area to a                    |      |
|       |             | Depth of One Foot   | 2-21 |
|       | 2.5.8.8     | Alternative 8: Surface Clearance of OE With                 |      |
|       |             | Subsurface Clearance of Entire Area to a                    |      |
|       |             | Depth of Four Feet  | 2-21 |
| 2.5.9 | Application | on of the Evaluation Criteria by Alternative for            |      |
|       | the Natu    | ıral Brush/Forest Area (Sector 6A and B)                    | 2-22 |
|       | 2.5.9.1     | Alternative 1: No Further Action                            | 2-22 |
|       |             | Alternative 2: Institutional Controls                       |      |
|       | 2.5.9.3     | Alternative 3: Surface Clearance Only of OE                 | 2-23 |
|       | 2.5.9.4     | Alternative 4: Surface Clearance of OE With                 |      |
|       |             | Institutional Controls                                      | 2-24 |
|       | 2.5.9.5     | Alternative 5: Surface Clearance of OE With                 |      |
|       |             | Subsurface Clearance of Selected Areas to                   |      |
|       |             | a Depth of One Foot   | 2-24 |
|       | 2.5.9.6     |   |      |
|       |             | Subsurface Clearance of Selected Areas to                   |      |
|       |             | a Depth of Four Feet  | 2-25 |
|       | 2.5.9.7     |   |      |
|       |             | Subsurface Clearance of Entire Area to a                    |      |
|       |             | Subsurface Clearance of Entire Area to a  Depth of One Foot | 2-25 |

|     |       |             |   | Page |
|-----|-------|-------------|---|------|
|     |       | 2.5.9.8     | Alternative 8: Surface Clearance of OE With     |      |
|     |       |             | Subsurface Clearance of Entire Area to a        |      |
|     |       |             | Depth of Four Feet                              | 2-26 |
| 2.6 | Comp  | arative Ana | alyses and Ranking of Recommended Remedial      |      |
|     |       |             | /es   | 2-26 |
|     | 2.6.1 | Introducti  | on  | 2-26 |
|     | 2.6.2 | Pine Farm   | n (Sector 2)                                    | 2-28 |
|     |       | 2,6.2.1     | Effectiveness                                   | 2-28 |
|     |       | 2.6.2.2     | Implementability                                | 2-28 |
|     |       |             | Cost  |      |
|     |       | 2.6.2.4     | Overall Ranking The Pine Farm                   | 2-31 |
|     | 2.6.3 | Landfill a  | nd Composting Area (Sector 3)                   | 2-31 |
|     |       | 2.6.3.1     | <del>-</del>                                    |      |
|     |       | 2.6.3.2     | Implementability                                | 2-34 |
|     |       | 2.6.3.3     |   |      |
|     |       | 2.6.3.4     |   |      |
|     |       |             | Area  | 2-34 |
|     | 2.6.4 | Pond Are    | a (Sector 4)                                    |      |
|     |       |             | Effectiveness                                   |      |
|     |       | 2.6.4.2     | Implementability                                | 2-38 |
|     |       |             | Cost  |      |
|     |       |             | Overall Ranking The Pond Area                   |      |
|     | 2.6.5 |             | rush/Forest Areas (Sector 6A)                   |      |
|     |       |             | Effectiveness                                   |      |
|     |       | 2,6.5.2     |   |      |
|     |       | 2.6.5.3     | •   |      |
|     |       | 2.6.5.4     |   |      |
|     |       |             | Areas (Sector 6A)                               | 2-45 |
| 2.7 | Recor | nmended R   | temedial Action                                 |      |
|     | 2.7.1 | Recomme     | ended Remedial Action for the                   |      |
|     |       | Wetland     | ds/Streams, Roads and Site Operations Building, |      |
|     |       | and the     | Uninvestigated Area                             | 2-48 |
|     | 2.7.2 |             | ended Remedial Action for the Pine Farm         |      |
|     | 2.7.3 | Recomme     | ended Remedial Action for Landfill and          |      |
|     |       | Compos      | sting Area (Sector 3)                           | 2-48 |

|           |      |  | Page |
|-----------|------|--|------|
|           |      | 2.7.4 Recommended Remedial Action for the Pond Area          |      |
|           |      | (Sector 4)   | 2-49 |
|           |      | 2.7.5 Recommended Remedial Action for Natural Brush/         |      |
|           |      | Forest Areas (Sectors 6A and 6B)                             | 2-49 |
|           | 2.8  | Limitations of This Report                                   | 2-50 |
|           | 2.9  | Army Assurances  | 2-50 |
|           | 2.10 | Reconsideration of Recommendations With the Restoration      |      |
|           |      | Advisory Board (RAB)   | 2-50 |
| SECTION 3 | DES! | IGN REPORT   | 3-1  |
|           | 3.1  | Design Drawings  | 3-1  |
|           | 3.2  | Specifications   |      |
|           |      | 3.2.1 Summary of Remediation Work                            |      |
|           |      | 3.2.2 Site Description                                       | 3-3  |
|           |      | 3.2.3 Special Clauses (site access, environmental protection |      |
|           |      | work hours, etc.)  | 3-6  |
|           |      | 3.2.4 Safety, Health, and Emergency Response                 | 3-6  |
|           |      | 3.2.5 Temporary Construction Facility                        | 3-7  |
|           |      | 3.2.6 Ordnance Demolition Site(s) and Operations             | 3-12 |
|           |      | 3.2.7 Brush Clearance  | 3-13 |
|           |      | 3.2.8 Site Restoration                                       | 3-14 |
|           |      | 3.2.9 Permits and Required Submittals                        | 3-15 |
|           |      | 3.2.10 Transportation and Disposal of Ordnance and Scrap.    | 3-15 |
|           |      | 3.3.11 Requirements for the Closure Report                   | 3-15 |

|            |  | rage |
|------------|--|------|
| SECTION 4  | REFERENCES   | 4-1  |
| APPENDIX A | OE ENGINEERING DESIGN FIELD INVESTIGATION ACTIVITIES |      |
| APPENDIX B | ORIGINAL SURVEYING AND MAPPING DATA                  |      |
| APPENDIX C | SITE CHARACTERIZATION DATA                           |      |
| APPENDIX D | OECERT ANALYSIS AND RISK ASSESSMENT REPORT           |      |
| APPENDIX E | DAILY JOURNAL OF ALL FIELD ACTIVITIES                |      |
| APPENDIX F | QC DOCUMENTATION                                     |      |

## **VOLUME II**

APPENDIX G COST ESTIMATE

# LIST OF FIGURES

| No.  | Title   | Page |
|------|---|------|
| 1.1  | Site Location Map   | 1-2  |
| 1.2  | Specific Site Location Map                                      | 1-5  |
| 1.3  | Property Ownership and Land Use Map                             |      |
| 1.4  | Historical Investigation Map                                    |      |
| 1.5  | Contour Overlay on Historical Investigation Map                 |      |
| 1.6  | Engineering Design Grid Overlay on Historical Investigation Map |      |
| 1.7  | Sector Delineation Map  | 1-30 |
| 1.8  | Site Characterization Results Map                               | 1-35 |
| 1.9  | Photograph of 105mm Illumination Round Recovered at OOU6        | 1-39 |
| 1.10 | Photograph of 105mm HE Recovered at OOU6                        | 1-40 |
| 1.11 | OE Contamination Results at OOU6 Sectors                        | 1-42 |

## LIST OF TABLES

| No.  | Title   | Page |
|------|---|------|
| 1.1  | Protected Species Found in Spartenburg, Cherokee and Union Counties, South      |      |
|      | Carolina, Camp Croft OE Engineering Design                                      | 1-10 |
| 1.2  | Potential ARARs for the Removal Action Croft OE Engineering Design              |      |
| 1.3  | OE/UXO Findings at OOU6, EE/CA Effort   |      |
| 1.4  | Sector Acreage OOU6 OE Engineering Design                                       |      |
| 1.5  | Summary of OE Distribution Based on Intrusive Investigation Results             |      |
| 1.6  | List of Potentially Hazardous OE Items  |      |
| 1.7  | Recovery Depths of Potentially Hazardous Items                                  |      |
| 1.8  | Summary of all OE Contamination at OOU6   | 1-45 |
| 1.9  | OE Density Estimates For The Former Camp Croft Army Training Facility -         |      |
|      | OOU6(OE Per Acre)   | 1-55 |
| 1.10 | OE Surface And Subsurface Estimates (OE Per Acre)                               | 1-55 |
| 1.11 | Expected Annual Exposures (Sampled Density Estimates)                           | 1-56 |
| 2.1  | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Effectiveness Criteria Application, Sector 2, Pine Farm                         | 2-29 |
| 2.2  | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Implementability Criteria Application, Sector 2, Pine Farm                      | 2-30 |
| 2.3  | Selection Criteria Application, Sector 2 (Pine Farm) Former CCATF OE            |      |
|      | Engineering Design  | 2-32 |
| 2.4  | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Effectiveness Criteria Application, Sector 3, Landfill and Composting Area      | 2-33 |
| 2.5  | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Implementability Criteria Application, Sector 3, Landfill and Composting Area   | 2-35 |
| 2.6  | Selection Criteria Application, Sector 3 (Landfill and Composting Areas) Former |      |
|      | CCATF OE Engineering Design   | 2-36 |
| 2.7  | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Effectiveness Criteria Application, Sector 4, Pond Area                         | 2-37 |
| 2.8  | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Implementability Criteria Application, Sector 4, Pond Area                      | 2-39 |
| 2.9  | Selection Criteria Application, Sector 4 (Pond Area) Former CCATF OE            |      |
|      | Engineering Design  | 2-41 |
| 2.10 | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Effectiveness Criteria Application, Sector 6A, Natural Brush/Forest Area        | 2-43 |
| 2.11 | Former Camp Croft Army Training Facility OE Investigation/Engineering Design    |      |
|      | Implementability Criteria Application, Sector 6A, Natural Brush/Forest Area     | 2-44 |
| 2.12 | Selection Criteria Application, Sector 6A (Natural Brush/Forest Area) Former    |      |
|      | CCATF OE Engineering Design   | 2-46 |
| 2.13 | Summary of Removal Alternatives for OOU6 Sectors Former CCATF OE                |      |
|      | Engineering Design  | 2-47 |
| 3.1  | Sector Acreage  | 3-5  |

# TABLES OF CONTENTS (CONTINUED)

### LIST OF ACRONYMS AND ABBREVIATIONS

ACGIH American Conference of Governmental Industrial Hygienists

AR Army Regulation

ARAR Applicable or Relevant and Appropriate Requirement

ASR Archives Search Report

BE base ejecting

CAL caliber

CCATF Camp Croft Army Training Facility

CEHNC Corps of Engineers, Huntsville Center

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

CPM Contract Project Manager

CWM chemical warfare material

DEM digital elevation models

DERP Defense Environmental Restoration Program

DoD U.S. Department of Defense

DRMO Defense Reutilization Marketing Office

DTIC Defense Technical Information Center

EE/CA Engineering Evaluation/Cost Analysis

EOD explosive ordnance disposal

EPA U.S. Environmental Protection Agency

ER Engineering Regulations

ERPP Environmental Resources Protection Plan

ESE Environmental Science & Engineering, Inc.

ft-bgs feet below ground surface

ft foot

# TABLES OF CONTENTS (CONTINUED)

FUDS Formerly Used Defense Site

GIS geographic information system

HE high explosive

HEAT high explosive anti-tank

HFA Human Factors Applications, Inc.

HTRW Hazardous Toxic and Radioactive Waste

lb/acre pounds per acre

MCE Maximum Credible Event

mm millimeter

NCP National Contingency Plan

NEPA National Environmental Policy Act

NOISH National Institute of Occupational Safety and Health

NTCRAs non-time-critical removal actions

OE ordnance and explosives

OECert OE Cost-Effectiveness Risk Tool

OOU ordnance operable unit

ORS ordnance-related scrap

OSHA Occupational Safety and Health Administration

PRSC post-removal site control

QA/QC quality assurance/quality control

QuantiTech QuantiTech, Inc.

RAB Restoration Advisory Board

RAC risk assessment code

ROE right-of-entry

SAR synthetic aperture radar

SASR Supplemental Archive Search Report

# TABLES OF CONTENTS (CONTINUED)

SCDPRT South Carolina Department of Parks, Recreation, and Tourism

SOP Standard Operating Procedure

SOW Statement of Work

SRA Safety Risk Assessment

SSHO Site Safety and Health Officer

SSHP Site Safety and Health Plan

TCRA time-critical removal action

TEU Technical Escort Unit

TM Technical Manual

USACE U.S. Army Corps of Engineers

USGS U.S. Geological Survey

UXO unexploded ordnance

WP Work Plan

#### IDENTIFICATION OF PROJECT PERSONNEL

The following individuals at Parsons Engineering Science, Inc. (Parsons ES) had significant and specific contribution to the implementation of this OE Engineering Design project and/or provided input to the preparation of this document:

<u>Name</u>

Ola A. Awosika (P.G., R.E.M)

Robert Menke (P.E.)

Robert L. Thoem (P.E.)

Richard L. Lord (P.E.)

Ken Stockwell (P.E.)

Don Silkebakken (P.E.)

Chris Cirillo

Frank Johnson

Dale Bugbee

Mary Garver

<u>Title</u>

Project Manager

Technical Director - Site Characterization

Technical Director - Design Report

Technical Director - Design Report

Parsons Program Manager

Site Manager

**GIS Specialist** 

Project Manager, UXB

Project Manager, QuantiTech

Information Processing Center

#### REPORT ORGANIZATION

This Ordnance Operable Unit 6 (OOU6) OE Engineering Design Report is made up of two volumes (Volume I and Volume II). Volume I of this report consists of the main portion of the report including the Executive Summary, four sections (Sections 1, 2, 3, and 4) and six appendices (Appendices A, B, C, D, E, and F). Section 1. Site Characterization, provides detailed historical information on the site and discusses the site characterization efforts and results of the OE Engineering Design field work. Section 2, presents identification and analysis of removal action objectives and alternatives and provides recommendation of removal alternatives for the OOU6 areas/sectors of concern. Section 3, Design Report, presents the design drawings and the specifications for construction effort to implement the recommended removal alternatives. Appendix A contains detailed discussion of the OE Engineering Design Field Activities. Appendix B presents the original survey and mapping data including QC results of the survey data. Appendix C presents the site characterization data (for example, geophysical and intrusive investigations' data). Appendix D presents the OECert analysis report. Appendix E presents the daily journal of all field activities. Appendix F contains the field QC documentation.

Volume II contains Appendix G, the cost estimate for the alternatives evaluated and the selected removal action for each sector.

### **EXECUTIVE SUMMARY**

ES1 The former US Army Camp Croft Training Facility (hereinafter referred to as the "former Camp Croft Army Training Facility or CCATF") Ordnance Operable Unit (OOU) 6 project is an ordnance and explosives (OE) Engineering Design on a Formerly Used Defense Site (FUDS) in Spartanburg, South Carolina. The purpose of the OOU6 OE Engineering Design project is to determine the most appropriate response action to address OE risk at the site. As part of this project this Engineering Design has been performed to address OE contamination in five of eight potentially contaminated areas within OOU6. The five areas include the Roads and Site Operation Building, the Pine Farm, the Landfill and Compost A Areas, the Pond Area, and the Natural Brush/Forest.

ES2 The former CCATF, consisting of approximately 19,000 acres, is located south of the town of Spartanburg, Spartanburg County, South Carolina. The CCATF consisted of firing ranges, impact areas, and troop housing. The Department of the Army used the site between 1941 and 1947 for military training exercises. In 1947 the Army began piecemeal sale of the property to private individuals and businesses as well as transferred a portion of the property for the creation of the 7,088-acre Croft State Park. Previous studies and OE clearance operations have confirmed the presence of OE within the State Park and on privately owned parcels formerly within the training facility. The OOU6 area covers one of the privately owned parcels and contains an area of 397.80 acres, as per the Division of Tract 'A' "Whitestone Tract" boundary survey map, dated January 24, 1994. OOU6 is located east of Croft State Park. The parcels of land within OOU6 are currently used for agricultural and industrial purposes including timber farming and industrial landfills.

ES3 The firing ranges at the former CCATF consisted of pistol, rifle, machine gun, mortar, anti-aircraft, and anti-tank ranges. OE/unexploded ordnance (UXO) that may be encountered at the former CCATF include: 30-caliber (cal) and 50-cal small arms; 105-millimeter (mm) artillery shells; 20-mm hand and rifle smoke, tear gas, and incendiary grenades; 60mm and 81mm high explosive (HE), practice, smoke, tear gas, and illumination mortar rounds; and 2.36-inch high explosive anti-tank (HEAT), smoke, incendiary, and practice rockets. The former CCATF also contained a gas chamber/gas obstacle course area where training was conducted [United States Army Corps of engineers (USACE) 1994].

ES4 In 1984, the USACE conducted a site survey of the former CCATF. This site survey concluded that the "potential for unexploded and dangerous bombs, shells, rockets, mines and charges either upon or below the surface" could be found at the former CCATF. In 1991, the U.S. Army Corps of Engineers (USACE), Charleston District conducted a Preliminary Assessment Study of the CCATF including the OOU6 area. This study determined that the former CCATF was eligible for further

investigation under the Defense Environmental Restoration Program (DERP) FUDS program. In 1994, the USACE, Rock Island District conducted a site inspection and archives search of the former CCATF (USACE, 1994). The final report, dated April 1994, outlined the nature and degree of OE/UXO contamination to be found at the former CCATF. In 1994 and 1995, Human Factors Applications, Inc. (HFA) performed a Time Critical Removal Action (TCRA) at the former CCATF. At OOU6, the TCRA was planned for a 30 acre area, but the area cleared was only 10-15 acres. The TCRA at OOU6 was conducted on the parcel of land currently owned by Dr. Lowry. The areas cleared included access roads into and out of the site and a work area where asphalt recycling equipment was to be installed. At the time, future development areas proposed by Dr. Lowry were also included. The objective of the TCRA was to remove surface and subsurface OE to a depth of four feet within the work areas and to conduct geophysical mapping of the planned site. Three potentially hazardous OE items (one live 105 mm with fuse and two 60mm HE with fuse) were recovered during this effort. In 1995 and 1996, Environmental Science and Engineering, Inc. (ESE) performed an Engineering Evaluation/Cost Analysis (EE/CA) at the former CCATF (ESE, 1996a). The purpose of this EE/CA was to analyze removal alternatives to reduce the risk of public exposure to OE/UXO at sites previously identified in the 1994 Archives Search Report (ASR) (USACE, 1994). ESE was directed by Corps of Engineers, Huntsville Center (CEHNC) to investigate four areas within the boundaries of OOU6, including the planned "compost B" area, the "poppy field," the proposed location of "landfill No. 2," and one unnamed area. These areas were designated as Grids 61, 62, 88, and 87, respectively. Significant UXO findings included four 60mm and seven 81mm mortar, nine 105mm smoke canisters, and numerous fragments in Grid 87. No UXO was found in Grid 88. The investigation at Grids 61 and 62 was not completed and there was no report of any UXO discovery at these grids. Other studies included one by ESE in March 1995, to prepare a Supplemental Archives Search Report to locate possible additional firing, bombing, and strafing ranges at the former CCATF and another study in October and November 1996 to perform a site reconnaissance of 134 sites within the former CCATF.

ES5 OE Engineering Design field investigations were conducted at the former Camp Croft Army Training Facility, OOU6, between December 1996 and February 1997. The purpose of this OE Engineering Design field investigation is to determine the nature and extent of OE contamination prior to evaluating and determining the most appropriate response action to reduce the public safety risk posed by OE at the site. A geophysical investigation identified 2,310 anomalies. One HE 105mm projectile and 14 inert 105mm illumination/smoke projectiles were recovered from some of the locations were these anomalies were detected. On the basis of the results of the OE field effort, the primary area of concern is the Pond Area where a single live OE item (105mm HE) and several inert ordnance items were recovered. This Pond Area lies in an area regarded as the overshoot of the target (area within EE/CA Grid 87). No potentially hazardous OE items or any OE-related items (other than small fragments) were found in the Landfill and Composting Areas and the Natural Brush/Forest. No live OE items were recovered within the Pine Farm, but potentially hazardous OE items were recovered.

ES6 A streamlined risk evaluation was performed to determine the risk of exposure to the public or individuals coming into contact with any remaining OE items. Separate risk assessments were conducted for each of five areas investigated at OOU6. The risk assessment was based on the results of previous OE investigations at the site and the current and future anticipated use of the properties. Both a qualitative and quantitative risk assessment were performed on each of the areas to determine the level of risk present. The risk evaluations concluded that the greatest risk of exposure to OE exists in the Pond Area. A lower level of risk of exposure to OE was determined for the Landfill and Compost A Areas, the Pine Farm, and the Natural Brush/Forest Area A. No risk of exposure was found for the Roads and Site Operation Building Area.

ES7 The results of the OECert Analysis of the site indicate that the Pond Area poses the greatest threat to public safety of any of the sectors of the site. The annual exposure estimate of 18 under the No Action alternative for this sector is 40% of the total exposures for the entire site based on the sampled density estimate. This level of annual exposures is nearly 2.5 times the amount of the next highest sector on the site which is the Natural Brush/Forest A. Lower numbers of annual exposure to OE were identified for the Pine Farm, and the Landfill and Compost A Areas. No exposures were identified for the Roads and Site Operations Building and the Natural Brush/Forest B. Using the sampled density estimate, the highest risk of exposure to OE and the resulting safety hazard exists in the Pond Area sector of the site. A more limited risk of exposure to OE exists at the Pine Farm sector, the Landfill and Compost A Areas sector, and the Natural Brush/Forest A sector.

ES8 The objective of the proposed removal action is to minimize the safety hazard posed to the public by OE items remaining on the OOU6 site. (Specifically, at the Pond Area, Landfill and Compost A Area, Pine Farm, and the Natural Brush/Forest Area.) The potential removal alternatives at the site are in four major categories; no further action, institutional controls, surface OE clearance, and subsurface OE clearance. Eight specific alternatives were developed from these major categories and include:

- no further action;
- institutional controls:
- surface clearance only of OE;
- surface clearance of OE and institutional controls;
- surface clearance of OE with selected areas being cleared to a depth of one foot;
- surface clearance of OE with selected areas being cleared to a depth of four feet;
- complete surface and subsurface clearance of OE to a depth of one foot across the entire site; and
- complete surface and subsurface clearance of OE to a depth of four feet across the entire site.

ES9 Each of the eight alternatives above has been developed for the entire OOU6 site and then applied independently to sectors, as applicable, in this OE Engineering Design. Because of specific considerations in two small areas in two of the sectors, the

Pine Farm and the Natural Brush/Forest Area A, the no further action alternative for these sectors include a limited action using presumptive remedy to address OE contamination at these two proposed future land use areas. A screening of the eight alternatives was performed to ensure they meet the removal action objectives and the minimum requirements in overall effectiveness and implementability of the response action. After screening, one alternative remained for the Roads and Site Operation Building Area, three alternatives remained for the Pine Farm, one alternative remained for the Landfill and Compost A Areas, three alternatives remained for the Pond Area, and three alternatives remained for the Natural Brush/Forest A and one alternative for the Natural Brush/Forest B. Following this exercise, the remaining alternatives were ranked against each other in terms of overall effectiveness, implementability, and cost. This evaluation was performed independently on each area (sector) of concern. completion of the ranking process, the recommended removal alternative for the Roads and Operation Building, Pine Farm, Natural Brush/Forests A and B was no further action. The no further action alternative for the Pine Farm and the Natural Brush/Forest Area A includes a limited removal action designed to enable clearance of a small portion at each of these sectors. The portions of concern are the proposed future storage barn within the Pine Farm and Compost B within the Natural Brush/Forest Area A. The recommended removal alternative for the Landfill and Compost A Areas is surface clearance of OE with subsurface clearance of selected areas to a depth of four feet. The recommended removal alternative for the Pond Area is surface clearance of OE with subsurface clearance of entire area to a depth of one foot.

ES10 These alternatives satisfy the removal action goal of reducing the explosive threat associated with OE by minimizing the OE exposure and safety hazards to the public. Table ES 1 summarizes the recommended removal alternative for each area, the associated reduction of OE exposures per year and the estimated cost to implement the OE remedial action for each site. Finally, a design report was prepared to provide detailed drawings and specifications for construction activities to implement OE remediation work at OOU6.

ES11 A review of the recommendations of this OE Engineering Design report with the former CCATF Restoration Advisory Board (RAB) and the Corps of Engineers warranted reconsideration of the recommendations based on the following factors:

- Type of ammunition (105mm projectiles) discovered/recovered at OOU6;
- Penetration potential (down to 4 feet below land surface) of the ammunition;
   and
- Potential future land use with regard to intrusive activities to depth below two feet.

ES12 Subsequently, the Corps of Engineers have opted to implement removal action (OE clearing) to a depth of four feet below land surface at the recommended portion(s) of each sector. In this regard, all OE clearing work specified in the recommendations provided will involve subsurface clearance of OE items to a depth of four feet at OOU6.

Table ES.1
Summary of Recommended Removal Alternatives for OOU6 Sectors
Former CCATF OE Engineering Design

|     | AREA/SECTOR                   | RECOMMENDED REMOVAL ALTERNATIVES  | REDUCTION<br>OF EXPOSURES<br>PER YEAR <sup>(1)</sup> | ESTIMATED<br>COST <sup>(3)</sup> | ESTIMATED<br>COST <sup>(4)</sup> |
|-----|-------------------------------|---|--|----------------------------------|----------------------------------|
| 1   | Roads and Site Operation Bldg | Alt 1 - No Further Action   | 0  | 0                                | 0                                |
| 2   | Pine Farm                     | Alt 1 - No Further Action <sup>(2)</sup>  | 4  | 75K                              | 80K                              |
| 3   | Landfill and Compost A Area   | Alt 6 - Surface Clearance of OE with<br>Subsurface Clearance of Selected Areas to a<br>Depth of Four Feet | 0  | 115K                             | 245K                             |
| 4   | Pond Area                     | Alt 7 - Surface Clearance of OE with<br>Subsurface Clearance of Entire Areas to a<br>Depth of One Foot.   | 0  | 205K                             | 230K                             |
| 6A. | Natural Brush/Forests - A     | Alt 1 - No Further Action <sup>(2)</sup>  | 7  | 90K                              | 100K                             |
| 6B. | Natural Brush/Forests - B     | Alt 1 - No Further Action   | 0  | o                                | 0                                |

Note: (1) Per OECert Analysis

- (2) Includes limited removal action in a relatively small portion of the Sector due to proposed future land use.
- (3) Estimated cost based on recommendations of the OE Engineering Design Report.
- (4) Estimated cost based on OE clearance to depth of 4 ft per reconsideration of recommendations by the Corps of Engineers and the former CCATF Restoration Advisory Board (RAB).

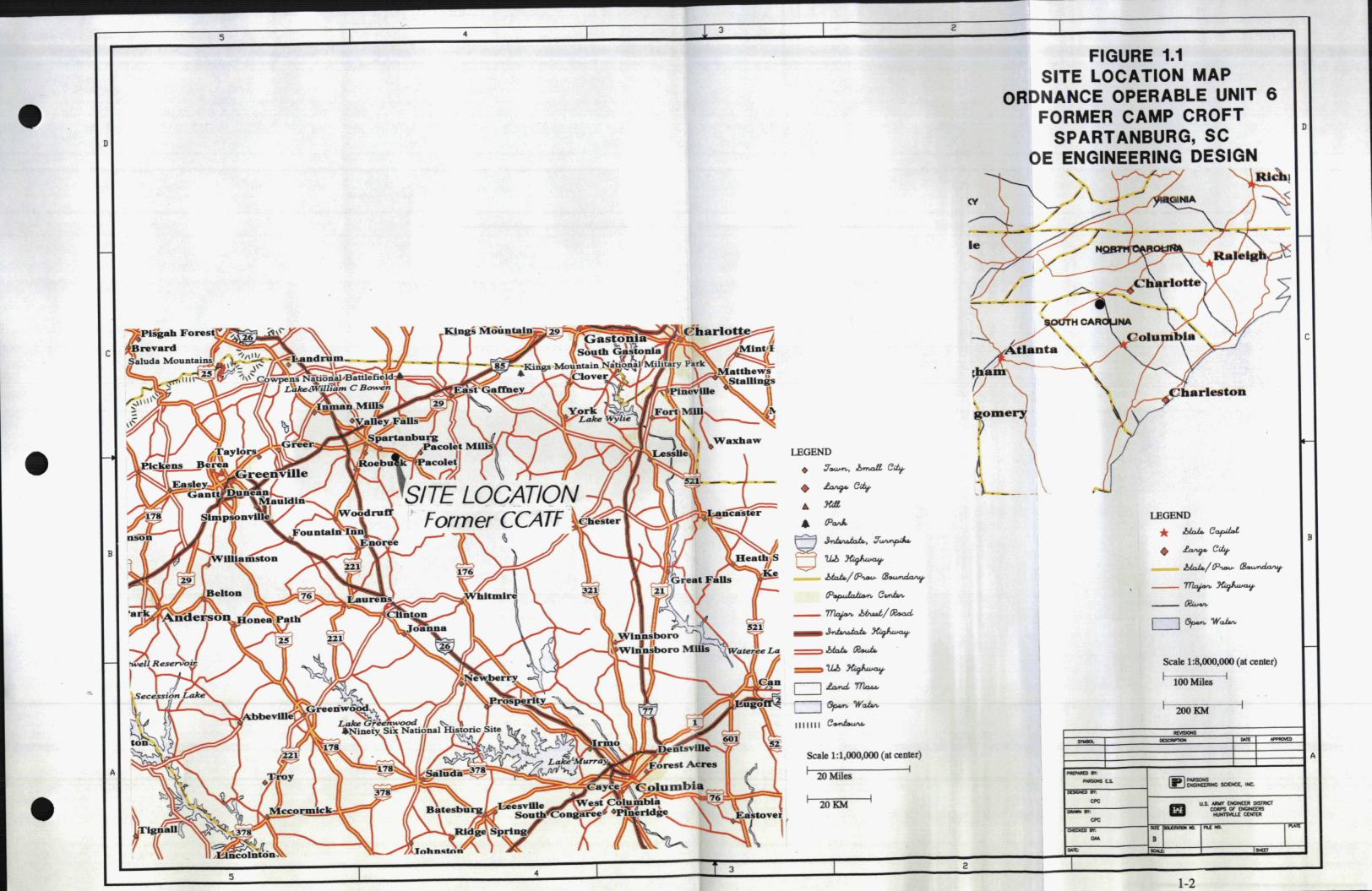
## SECTION 1 SITE CHARACTERIZATION

#### 1.1 INTRODUCTION

- 1.1.1 The former US Army Camp Croft Training Facility (hereinafter referred to as the "former Camp Croft Army Training Facility or CCATF") consisted of approximately 19,000 acres of firing ranges, impact areas, and troop housing south of Spartanburg, South Carolina (Figure 1-1). The Department of the Army used the site between 1941 and 1947 for military training exercises. In 1947 the Army began piece meal sale of the property to private individuals and businesses as well as transferred a portion of the property for the creation of the 7,088-acre Croft State Park. Previous studies and Ordnance and Explosives (OE) clearance operations have confirmed the presence of OE within the park and on privately owned parcels formerly within the training facility. The purpose of this OE Engineering Design project is to determine the most appropriate response action to address OE risk at a portion of the site, Ordnance Operable Unit 6 (OOU6). OOU6 contains an area of 397.80 acres, as per the Division of Tract 'A' "Whitestone Tract" boundary survey map, dated January 24, 1994. To accomplish this purpose, the following tasks were completed:
  - determine the nature and extent of OE contamination at the site through site investigations;
  - perform a streamlined risk assessment of the OE hazards present at the site;
  - identify and develop removal action alternatives;
  - screen removal action alternatives; and
  - compare analysis of remaining removal action alternatives.

This document presents the results of these tasks and provides recommendations for the follow-on removal actions.

1.1.2 This OE Engineering Design study was authorized when the Inventory Project Report (INPR) for the former CCATF was signed by the Chief of the Environmental Restoration Division of the US Army Corps of Engineers (USACE) on July 15, 1993. The need for the OE Engineering Design is based on the previous recovery of OE from the site. This document was prepared in accordance with the National Contingency Plan (NCP), related Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or Superfund guidance, the Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS), and relevant US Army regulations and guidance for OE programs. The guidance contained in the US Environmental



- Protection Agency's (USEPA) document EPA 540-R-93-057 entitled *Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA* (August 1993). This report has been prepared by Parsons Engineering Science (Parsons ES) for the US Army Corps of Engineers, Huntsville Center (CEHNC) under Contract Number DACA 87-95-D-0018, Delivery Order No. 0009.
- 1.1.3 The former CCATF OE Engineering Design project has been performed by the US Army Corps of Engineers under the DERP, 10 USC 2701-2707, and under Section 104 of CERCLA. Under these regulations, the Secretary of Defense is authorized to conduct response actions at sites that were contaminated while under the jurisdiction of the Department of Defense (DoD) or its predecessor agencies. The Secretary of the Army, acting though the US Army Corps of Engineers, acts as the DoD executive agent for the remediation of sites that were contaminated while under the jurisdiction of DoD, but which subsequently have been transferred out of DoD control. Because this project falls under CERCLA, a general exemption exists for compliance with other state and local permits. This exemption is found in the NCP at 40 CFR 300.400(e). Nevertheless, every effort was made to comply with the intent of all applicable federal, state, and local permit requirements during the conduct of the investigation.
- 1.1.4 The former CCATF project is part of the FUDS program. A FUDS is real property that was formerly owned by, leased by, or otherwise under the operational control of the Secretary of Defense or the military components that predate the DoD. Accordingly, FUDS sites were either areas where real property accountability previously rested with DoD irrespective of current ownership or current responsibility within the federal government; areas previously used by DoD components under lease or other agreements; or areas previously occupied by DoD components over which significant control was exercised without the benefit of a formal real estate instrument or other agreements.
- 1.1.5 For a site to be listed as a FUDS, the Department of the Army must undertake a two-step process. The first step is to perform a Findings and Determination of Eligibility (FDE). This study entails research of historical real estate deeds and documents to determine if the site was owned, leased, or used by the DoD. The FDE for the former CCATF was developed by the US Army Corps of Engineers and signed on December 17, 1992. The FDE determined that the 19,000 acre site had been acquired by condemnation for use as the Camp Croft Army Training Facility. Of the 19,000 acres, OOU6 covers approximately 398 acres. The FDE determined that the site was formerly used by the DoD, but ownership currently resides with private individuals and businesses. Therefore, the former CCATF met FUDS eligibility due to the public safety threat that exists at the site.
- 1.1.6 The second step of the FUDS process is to complete an INPR, which is similar to a preliminary assessment. This report identifies potential hazards that may be present at the site as a result of past DoD activities. The INPR for the former CCATF was approved on July 15, 1993. The INPR confirmed that OOU6 was formerly used by the

Department of the Army as an infantry mortar and artillery target facility and a hazard to the public exists from the OE contamination that resulted from the period of Army ownership.

#### 1.2 SITE DESCRIPTION AND BACKGROUND

#### 1.2.1 Site Location

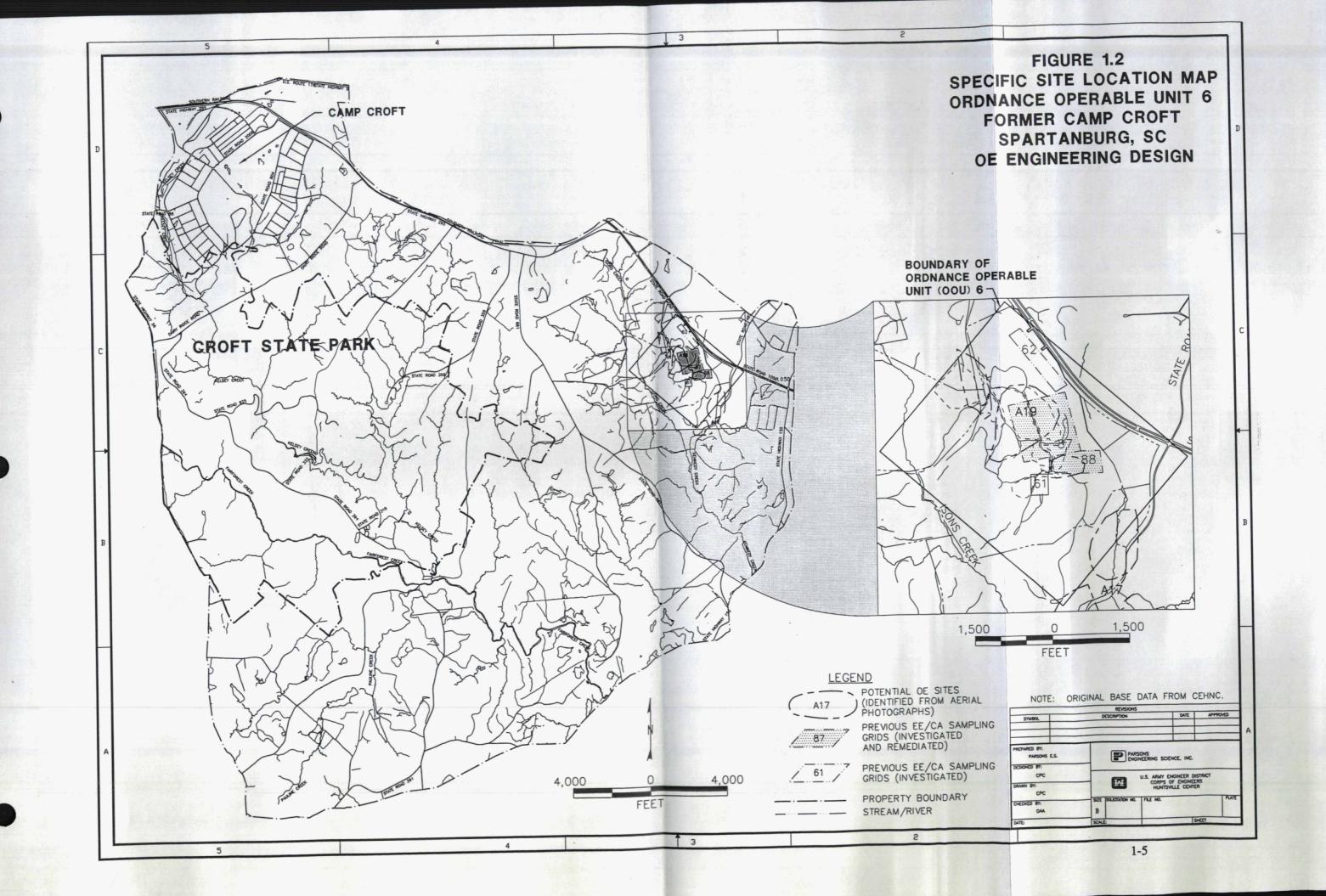
The former CCATF, consisting of approximately 19,000 acres, is located south of the town of Spartanburg, Spartanburg County, South Carolina. Figure 1-1 shows the location of the study area. Ordnance Operable Unit 6 is located east of Croft State Park. Figure 1-2 shows the boundaries and major features of the former CCATF, Croft State Park and OOU6.

## 1.2.2 Site History

- 1.2.2.1 Camp Croft was established in January 1941 as an Army training facility. The camp consisted of two general areas: a series of training, firing, and impact ranges (approximately 16,929 acres), and a troop housing (cantonment) area with attached administrative quarters (approximately 167 acres). The firing ranges at the former CCATF consisted of pistol, rifle, machine gun, mortar, anti-aircraft, and anti-tank ranges. OE/UXO that may be encountered at the former CCATF include: 20mm hand and rifle smoke, tear gas, and incendiary grenades; 30-caliber (cal) and 50-cal small arms; 60mm and 81mm high explosive (HE), practice, smoke, tear gas, and illumination mortar rounds; 105-millimeter (mm) artillery shells; and 2.36-inch high explosive anti-tank (HEAT), smoke, incendiary, and practice rockets. The former CCATF also contained a gas chamber/gas obstacle course area where training was conducted (USACE, 1994).
- 1.2.2.2 In 1947, the entire acreage of the former CCATF was declared surplus by the War Assets Administration. By 1950, the Army sold the land by pieces to organizations and businesses. This sale also included the transfer of 7,088 acres of land to the South Carolina Commission of Forestry for the creation of the Croft State Park. The remaining acreage has been converted to residential housing, churches, and industrial and commercial businesses. The gas chamber and gas obstacle course have been removed, and no ordnance or other evidence of past chemical training are found at the site.
- 1.2.2.3 OOU6 is located within the boundaries of the former Camp Croft, but outside Croft State Park. It is situated off of Mimosa Lake Road and is adjacent to the south of U.S. Highway 176 Bypass. OOU6 contains an area of 397.80 acres, as per the Division of Tract 'A' "Whitestone Tract" boundary survey map, dated January 24, 1994. The property is privately owned and is used for agricultural and industrial purposes including timber farming and industrial landfills.

## 1.2.3 Topography

1.2.3.1 The topography of the site consists of rolling hills and small ravines. The elevation of the site ranges from a low elevation of approximately 560 feet above sea level in the extreme western portions of OOU6 near Isons Creek to elevations exceeding



700 feet above sea level in the northern portion of OOU6 and at Red Hill (former target area).

1.2.3.2 Much of the site is subject to erosion due to storm water runoff. As a result of the dramatic elevation changes, numerous washouts have been carved by storm water erosion leading to Isons Creek and Kennedy Creek.

## 1.2.4 Geology and Soils

- 1.2.4.1 The former CCATF is located in the Piedmont Physiographic Province of northern South Carolina. The area is underlain by fine-grained soils, saprolite (bedrock which has been weathered in-place) overlying unweathered bedrock. Bedrock in the area consists of Proterozoic to Lower Paleozoic hornblende gneiss, biotite schist, and granitic pegmatite.
- 1.2.4.2 Soils at the site consist of red-brown sandy silt to sandy clay. These grade into a moderately dense saprolite, as observed in excavations and road cuts near the current landfill area. The saprolite appears to contain abundant quartz, mica, and kaolinized feldspar; in general the color was dark red-brown to dark brown and dark gray. The saprolite exposures also exhibited remnant layering and color banding. A few subvertical, black-stained fractures were also visible in the exposures.

## 1.2.5 Meteorology

- 1.2.5.1 The climate of the study area is characterized by mild winters and warm, humid summers. During the winter and spring, fast-moving cold fronts moving through the area produce large variations in temperature. Average monthly temperatures ranged from 42.8°F in winter to 77.0°F in summer for the period 1986 through 1997 (National Oceanic and Atmospheric Administration, 1997).
- 1.2.5.2 The total annual precipitation in the Spartanburg area is 48.9 inches, approximately 4.2 inches a month during winter and 4.5 inches a month during the summer. Rainfall rates in the Spartanburg area are highest in late summer and midwinter (National Oceanic and Atmospheric Administration, 1997). The prevailing wind is from the southwest. Thunderstorms and other severe storm events (hailstorms and tornadoes) occur in South Carolina most commonly from March through July (South Carolina Department of Natural Resources, 1997).

### 1.2.6 Demographics

Spartanburg County, South Carolina has a year-round population of 226,800, according to the 1990 census (U.S. Census Bureau, 1990). The town of Pacolet, South Carolina is located approximately 4 miles southeast of the site and approximately 5 miles southeast of Spartanburg. The OOU6 portion of CCATF is located in a relatively rural area.

## 1.2.7 Sensitive Populations and Ecosystems

- 1.2.7.1 The site is characterized by a mixture of upland and wetland vegetation types. Upland forested areas are occupied by hardwoods, mixed pine hardwoods, or old field vegetation. These areas are most common in the floodplains of Isons and Kennedy Creeks or on slopes adjacent to floodplain areas. Common hardwood species include white oak, beech, dogwood, red maple, red cedar, tulip trees, sweet gum, sourwood, red oak, and black oak. Mixed pine hardwoods are characterized by a mixture of slash, scrub, and loblolly pine, as well as the hardwoods listed previously. Extensive portions of the site, especially hilltops and open, south facing slopes, are characterized by old field communities affected by fire from previous shellings. The old field areas are interspersed with slash and/or loblolly pine, and are dominated by typical old field weeds and grasses such as goldenrod, broomsedge, and panic grasses.
- 1.2.7.2 At the time of the survey, a large area of upland forest had been cleared on the north side of the ravine immediately below the active landfill area. The clearing extended from near Mimosa Lake Road on the top of the ravine all the way to the bottom of the hill and adjacent to the floodplain of Isons Creek.
- 1.2.7.3 The most extensive vegetation type on the site consists of old field habitat. Most of the hilltop areas, especially on the south side of the site, consisted of old field habitat. Hardwoods were the next most abundant habitat type, and were limited either to the floodplain areas or to slopes adjacent to creek bottoms. One extensive pine forest was observed on the west side of Lake Mimosa Road on a hilltop immediately to the west of the work trailer.
- 1.2.7.4 Wetlands described in the report correspond to Corps of Engineers jurisdictional areas as determined by the 1987 Corps Manual. However, a wetland delineation was not required for this project. The extent and types of wetlands on the site were determined from Natural Resource Conservation Service soil maps, U.S.G.S topographic maps, U.S. Fish and Wildlife Service National Wetland Inventory maps, aerial photographs, and a field survey during which qualitative observations were made. The majority of wetlands found on the site were found to be palustrine, seasonally flooded forested wetlands that occupy bottoms and slopes of ravines, and floodplain areas associated with Isons and Kennedy Creeks. The bottoms of the steep ravines were characterized by relatively flat sloping areas that supported well-developed emergent and scrub/shrub wetlands. In many cases, wetlands were observed in the uppermost reaches of the ravines, especially on the southern side of the site. These wetlands are supported by abundant seepage of surface and groundwater from upgradient sources. Seepage wetlands were dominated by woody shrubs, emergent sedges and rushes. Floodplain forested areas were dominated by mature red maple and tulip trees located in seasonally flooded areas associated with Isons and Kennedy Creeks. These areas are mature and diverse systems, but have been selectively logged.
- 1.2.7.5 The site is adjacent to Croft State Park, an extensive natural area that was once used for ordnance training by the U.S. Army. The site was originally part of the

ordnance training area, but was eventually acquired by private landowners. The majority of the remaining and much larger original Camp Croft ordnance training area was acquired by the state and converted into Croft State Park. The site is therefore part of a much larger natural area, Camp Croft State Park, that provides excellent habitat for deer, as well as other mammals, birds, reptiles, and amphibians. However, a portion of the site southwest of Lake Mimosa Road and downgradient of the landfill has been cleared, and provides very low quality, disturbed wildlife habitat. This area represents approximately 10-15% of the total area of the site. The remaining portions of the site provide moderate to good quality wildlife habitat, depending on the area. The property owner has enhanced many upland areas by clearing fields and planting them with winter peas, thus providing edge habitat and a good food supply. The winter pea fields were constructed by the present land owner specifically to provide food for deer, in order to improve hunting conditions. The property is used extensively for deer hunting. Deer stands are located at numerous locations throughout the property, especially in the vicinity of the winter pea fields. These areas will eventually be planted as a mixture of winter peas and fescue, according to the property owner. Other areas, typically in low lying floodplains, have not been cleared and provide more valuable natural habitat for a wide variety of wildlife. These areas have, however, been selectively logged in varying degrees, and are also used for deer hunting.

- 1.2.7.6 Floodplain areas provide high value habitat for a wide variety of wildlife, and are relatively mature systems. Trees in the floodplains of the two creeks are commonly over 75 feet in height. Some areas have been selectively logged, but the remaining trees are relatively mature.
- 1.2.7.7 Many other upland areas have been cleared by the owner to form fields, and planted in winter peas to attract deer. Based on the large number of deer tracks observed during the field survey, deer are very abundant on the site.
- 1.2.7.8 Isons and Kennedy Creeks flow through the western and eastern sides of the site, respectively. The site is located immediately above the confluence of these two streams. Both streams are deeply incised, sandy-substrate streams that meander through the area. Stream riffles are composed of small gravel and cobble (maximum diameter 1-2 inches). The creeks range from 1-2 feet at the headwaters to 10-15 feet in width in the lower elevation floodplains. The immediate watershed and floodplain of the two creeks is largely undisturbed throughout the majority of the site, resulting in good quality aquatic habitat. Both streams are associated with relatively narrow, but well developed floodplains that seasonally overflow.
- 1.2.7.9 Water in both streams was clear during the December, 1996 biological survey by Parsons ES. The State of South Carolina has not assigned water quality classifications to Isons and Kennedy Creek. Water depth varied from less than one inch to an estimated maximum of 1-2 feet during the survey. The streams would be expected to provide good habitat for aquatic animals as well as wildlife utilizing the streams for food. Raccoon tracks were observed commonly along the streams at numerous locations.

- 1.2.7.10 A review of the literature was conducted to determine whether federal-state- or Heritage Program-listed species have been observed on the site or in the area. The review included contacting The State of South Carolina Heritage Trust Program to obtain records of actual occurrences in the study area and/or on the study site itself. The State of South Carolina Heritage Program correspondence includes occurrences from adjoining Cherokee and Union Counties, since these species could also potentially occur in Spartanburg County. A field survey was also conducted in December 16-17, 1996, in order to examine the habitats present on the site.
- 1.2.7.11 Table 1.1 summarizes information on protected species of plants and animals that could occur in the study area. For each species of plant or animal, Table 1.1 provides a description of the preferred habitat and a statement regarding whether the site would provide suitable habitat. Because a large portion of the site is already disturbed by landfilling and clearing, it does not provide suitable habitat in many of the upland areas. However, the remaining wooded uplands, slopes, ravines, and bottomland forest habitats on the site do provide potential habitat for many of these species. The following discussion assesses the potential for these species to actually occur on the project site.
- 1.2.7.12 Two federally-listed plant species were determined to have significant potential for occurring on the site. These include Dwarf-flowered heartleaf (*Hexastylis naniflora*)(Federal threatened) and American chaffseed (*Scwhalbea americana*)(Federal endangered)(Table 1.1). The other federal-listed animal species that occur in the area include the bald eagle, red cockaded woodpecker (RCW), and peregrine falcon. However, these would only be occasional migrants in the vicinity of the site and would not utilize the site for nesting. No suitable nesting habitat is present on the site for bald eagles or peregrine falcons. RCWs require 60-70 year old pine trees infected with the tree fungus *Fomes* to nest. No pine trees of this age were observed during the biological survey. The area could provide foraging habitat for RCWs, however.
- 1.2.7.13 Dwarf-flowered heartleaf occurs most commonly on hillsides, ravines or boggy areas next to creeks, creekheads where shrubs are rare, or bluffs with light gaps (USFWS 1995). It specifically requires Pacolet, Madison gravely sand loam soils, or Musella fine sandy loam soils. All of these conditions occur on the site. No plants were observed during the 2-day survey. Nevertheless, this species could occur on the site within ravine and wooded areas. These areas are characterized by relatively easy access. The project will therefore not impact this species, since only limited clearing will be required in these areas.
- 1.2.7.14 American chaffseed occurs in sandy peat and acidic sandy loam, seasonally moist soils. It prefers "open moist pine flatwoods, fire-maintained savannas, ecotonal areas between peaty wetlands and xeric sandy soils, and other open grass-sedge systems" (USFWS 1995). It is dependent on fires, mowing or changing water levels to survive. Surviving populations are known from fire-maintained habitats including, "plantations where fire is a prescribed part of a management regime for quail and other game species, Army base impact zones that burn regularly because of artillery shelling, forest management areas that are burned to maintain habitat for wildlife, ..... and various other private lands that are burned to maintain open fields" (USFWS 1995). The open old



## PROTECTED SPECIES FOUND IN SPARTENBURG, CHEROKEE AND UNION COUNTIES, SOUTH CAROLINA' CAMP CROFT OF ENGINEERING DESIGN

| Common Name               | Scientific Name          | Status <sup>1, 2, 3</sup> | Habitat <sup>4</sup>  | Habitat On Site?  |
|---------------------------|--------------------------|---------------------------|---|---|
| Mammals                   |                          |                           |   |   |
| Southeastern myotis       | Myotis austroriparius    | ST, G3, S2S3              | Caves, mine tunnels, hollow trees, buildings, culverts, bridges;  | Could migrate through area  |
| Meadow vole               | Microtus pennsylvanicus  | SC, G5, S4                | Low moist areas or high grasslands with rank growths of vegetation; near streams, lakes, swamps, sometimes in forests with little ground cover; orchards with grass undergrowth | Yes   |
| Birds                     |                          |                           |   |   |
| Bald eagle                | Haliaeetus leucocephalus | FT                        | Nests in large trees overlooking nearby rivers or lakes in undisturbed areas  | No nesting habitat;<br>occasional migrant<br>through area                 |
| American peregrine falcon | Falco peregrinus anatum  | FE*                       | Occasional migrant through study area in spring and fall; nests on cliffs, high hills, or tall buildings  | No nesting habitat;<br>occasional migrant<br>through area                 |
| Red-cockaded woodpecker   | Picoides borealis        | FE*                       | Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands ≥30 years of age, preferably ≥10" dbh                                       | No nesting habitat;<br>could utilize site<br>occasionally for<br>foraging |
| Plants                    |                          |                           |   |   |
| Blue monkshod             | Aconitum uncinatum       | SC, G4, S2                | Rich woods  | Yes   |
| Nodding onion             | Allium cernuum           | SC, G5, S?                | Meadows and open woods  | Yes   |
| Georgia aster             | Aster georgianus         | SC, G2G3, S?              | Woodlands, woodland borders, old fields and pastures  | Yes   |

NOT LISTED IN AS BEING PRESENT IN THE STUDY AREA BY THE SOUTH CAROLINA HERITAGE TRUST DATABASE, BUT IS LISTED IN THE LATEST FEDERAL LIST (U.S. FISH AND WILDLIFE SERVICE, 1996).

FE = FEDERAL ENDANGERED; FT = FEDERAL THREATENED; NC = OF CONCERN, NATIONAL (UNOFFICIAL); RC = OF CONCERN, REGIONAL (UNOFFICIAL);

G = GOBAL RANK ACROSS ENTIRE RANGE; S = RANK AT STATE LEVEL. BOTH G AND S RANKS ≈ 1-5; "7" FOR EITHER RANK MEANS THAT THE STATUS/RANK IS UNKNOWN AT PRESENT WHERE 1 - MOST RARE/CRITICALLY ENDANGERED (1-5 KNOWN OCCURENCES); 2= 6 TO 20 KNOWN OCCURENCES; 3 = 21 TO 100 OCCURENCES; 4 AND 5 INDICATE THE SPECIES HAS MANY OCCURENCES AND IS APPARENTLY SECURE (STATE OF SOUTH CAROLINA HERITAGE PROGRAM, 1997).

SC = STATE OF SOUTH CAROLINA SPECIES OF CONCERN; SE \* STATE ENDANGERED; ST = STATE THREATENED; SX = STATE EXTIRPATED; PE/PT/C = PROPOSED OR CANDIDATE FOR FEDERAL LISTING (STATE OF SOUTH CAROLINA HERITAGE PROGRAM, 1997).

RADFORD ET AL., 1968; BURT AND GROSSENHEIDER, 1976; USFWS 1996

## TABLE (Continued)

## PROTECTED SPECIES FOUND IN SPARTENBURG, CHEROKEE AND UNION COUNTIES, SOUTH CAROLINA' CAMP CROFT OF ENGINEERING DESIGN

| Common Name                         | Scientific Name                     | Status <sup>1,2,3</sup> | Habitat⁴  | Habitat On Site? |
|-------------------------------------|-------------------------------------|-------------------------|---|------------------|
| Graceful sedge                      | Carex gracillima                    | SC, G5, S?              | Rich and low woods  | Yes              |
| Plants (Cont'd)                     |                                     | "                       |   |                  |
| Drooping sedge                      | Carex prasina                       | SC, G4, S?              | Seepage slopes in rich woods  | Yes              |
| Rough sedge                         | Carex scabrata                      | SC, G5, S?              | Seepage slopes and springheads in rich woods  | Yes              |
| Intermediate enchanter's nightshade | Circaea lutetiana ssp<br>canadensis | SC, G5T5, S1            | Rich woods  | Yes              |
| Mountain witch-alder                | Fothergilla major                   | RC, G3, S1              | Mountains - dry woods and balds   | No               |
| Теавегту                            | Gaultheria procumbens               | SC, G5, S1              | Xeric to mesic wooded habitats  | Yes              |
| Virginia stickseed                  | Hackelia virginiana                 | SC, G5, S?              | Mountain woods and thickets   | No               |
| Smooth sunflower                    | Helianthus laevigatus               | SC, G4, S?              | Woodlands and road embankments  | Yes              |
| Porter's goldeneye                  | Helianthus porteri                  | SC, G4, S1              | Granitic flat rocks   | No               |
| Dwarf-flowered heartleaf            | Hexastylis naniflora                | FT, G3, S2              | Slope woods   | Yes              |
| Hydrangea                           | Hydrangea cinerea                   | SC, G4, S?              | Shady ledges and cliffs   | Yes              |
| Shoals spider lily                  | Hymenocallis coronaria              | NC, G2Q, S2             | Low woods and swamp forest borders  | Yes              |
| Piedmont quillwort                  | Isoetes piedmontia                  | SC, G3, S2              | Shallow muddy soils next to seepages adjacent to granitic rocks and pools; pools on granitic flat rocks | No               |
| Butternut                           | Juglans cinerea                     | SC, G4, S?              | Rich woods  | Yes              |
| Georgia rush                        | Juncus georgianus                   | SC, G4, S?              | Shallow depressions in granitic outcrops  | No               |
| Ground juniper                      | Juniperus communis                  | SC, G5, S?              | Rocky soil  | Yes              |

NOT LISTED IN AS BEING PRESENT IN THE STUDY AREA BY THE SOUTH CAROLINA HERITAGE TRUST DATABASE, BUT IS LISTED IN THE LATEST FEDERAL LIST. (U.S. FISH AND WILDLIFE SERVICE, 1996).

 $FE = FEDERAL\ ENDANGERED;\ FT = FEDERAL\ THREATENED;\ NC = OF\ CONCERN,\ NATIONAL\ (UNOFFICIAL);\ RC = OF\ CONCERN,\ REGIONAL\ (UNOFFICIAL);\ RC = OF\ CONCERN,\ RC = OF$ 

G ≈ GOBAL RANK ACROSS ENTIRE RANGE; S = RANK AT STATE LEVEL. BOTH G AND S RANKS = 1-5; "?" FOR EITHER RANK MEANS THAT THE STATUS/RANK IS UNKNOWN AT PRESENT WHERE 1 - MOST RARE/CRITICALLY ENDANGERED (1-5 KNOWN OCCURENCES); 2= 6 TO 20 KNOWN OCCURENCES; 3 = 21 TO 100 OCCURENCES; 4 AND 5 INDICATE THE SPECIES HAS MANY OCCURENCES AND IS APPARENTLY SECURE (STATE OF SOUTH CAROLINA HERITAGE PROGRAM, 1997).

SC = STATE OF SOUTH CAROLINA SPECIES OF CONCERN; SE = STATE ENDANGERED; ST = STATE THREATENED; SX = STATE EXTIRPATED; PEPTIC = PROPOSED OR CANDIDATE FOR FEDERAL 3. LISTING (STATE OF SOUTH CAROLINA HERITAGE PROGRAM, 1997).

RADFORD ET AL., 1968; BURT AND GROSSENHEIDER, 1976; USFWS 1996

## TABLE (Continued)

## PROTECTED SPECIES FOUND IN SPARTENBURG, CHEROKEE AND UNION COUNTIES, SOUTH CAROLINA' CAMP CROFT OE ENGINEERING DESIGN

| Common Name             | Scientific Name           | Status <sup>1, 2, 3</sup> | Habitat⁴   | Habitat On Site? |
|-------------------------|---------------------------|---------------------------|--|------------------|
| Yellow honeysuckle      | Lonicera flava            | SC, G5?, S2               | Woodlands and thickets   | Yes              |
| Climbing fern           | Lygodium palmatum         | SC, G4, S1S2              | Wet thickets in sandy or acid soil   | Yes              |
| Virginia bunchflower    | Melanthium virginicum     | SC, G5, S?                | Bogs, wet woods and savannahs  | Yes              |
| Canada moonseed         | Menispermum canadense     | SC, G5, S?                | Low woods  | Yes              |
| One-flowered stitchwort | Minuartia uniflora        | SC, G4, S?                | Granitic flat rocks  | No               |
| Sweet pinesap           | Monotropsis odorata       | RC, G3, S1                | Mixed deciduous woods  | Yes              |
| Nestronia               | Nestronia umbellula       | SC, G4, S2                | Woodlands  | Yes              |
| Adder's tongue          | Ophioglossum vulgatum     | SC, G5, S?                | Low loamy woods and marshy valleys   | Yes              |
| American chaffseed      | Scwhalbea americana       | FE*                       | Savannahs and pine woodlands, especially areas that have been burned, including army bases used for shelling | Yes              |
| Granite rock stonecrop  | Sedum pusillum            | NC, G3, S2                | Granite outcrops   | No               |
| Prairie rosinweed       | Silphium terebenthinaceum | SC, G4G5, S1              | Woodland borders and old fields on basic or circumneutral soils  | No               |
| White goldenrod         | Solidago bicolor          | SC, G5, S1                | Woodlands and roadbanks  | Yes              |
| Prairie goldenrod       | Solidago rigida           | SC, G5, S1                | Openings in woodlands, meadows and pastures, probably associated with basic or circumneutral soils           | No               |
| Narrow leaved vervain   | Verbena simplex           | SC, G5, S?                | Roadsides, meadows, thickets, usually associated with basic or circumneutral soils                           | No               |

NOT LISTED IN AS BEING PRESENT IN THE STUDY AREA BY THE SOUTH CAROLINA HERITAGE TRUST DATABASE, BUT IS LISTED IN THE LATEST FEDERAL LIST. (U.S. FISH AND WILDLIFE SERVICE, 1996).

FE = FEDERAL ENDANGERED; FT = FEDERAL THREATENED; NC = OF CONCERN, NATIONAL (UNOFFICIAL); RC = OF CONCERN, REGIONAL (UNOFFICIAL);

G = GOBAL RANK ACROSS ENTIRE RANGE; S = RANK AT STATE LEVEL. BOTH G AND S RANKS = 1-5; "7" FOR EITHER RANK MEANS THAT THE STATUS/RANK IS UNKNOWN AT PRESENT WHERE 1 - MOST RARE/CRITICALLY ENDANGERED (1-5 KNOWN OCCURENCES); 2= 6 TO 20 KNOWN OCCURENCES; 3 = 21 TO 100 OCCURENCES; 4 AND 5 INDICATE THE SPECIES HAS MANY OCCURENCES AND IS APPARENTLY SECURE (STATE OF SOUTH CAROLINA HERITAGE PROGRAM, 1997).

SC = STATE OF SOUTH CAROLINA SPECIES OF CONCERN; SE = STATE ENDANGERED; ST + STATE THREATENED; SX = STATE EXTIRPATED; PE/PT/C = PROPOSED OR CANDIDATE FOR FEDERAL LISTING (STATE OF SOUTH CAROLINA HERITAGE PROGRAM, 1997).

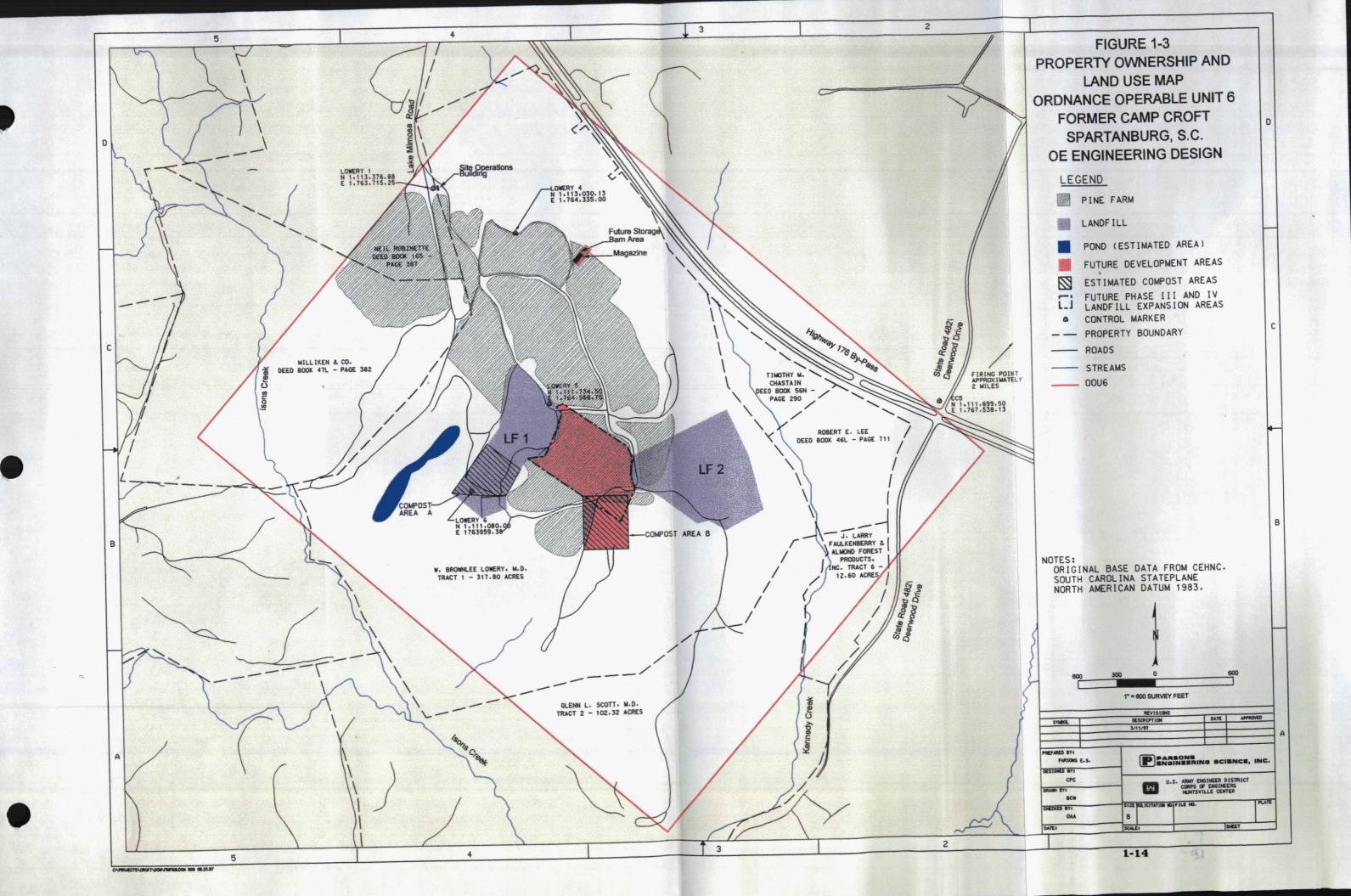
RADFORD ET AL., 1968; BURT AND GROSSENHEIDER, 1976; USFWS 1996

field habitats on the southern portion of the project site could have supported this species in the past since it was a shelling area. During the 1996 biological survey, evidence of previous burning (charred wood) was observed in the open fields on the upland areas on the south side of the site. However, the site has not been used for shelling since 1947. Subsequent discussions with the present property owner have shown that the charred wood observed in the fields on the southern portion of the site are remnants of hardwood stumps. The stumps were left in place by the previous property owner, who removed hardwoods from a larger portion of the site prior to selling the land approximately 4 years ago. The present owner subsequently removed the hardwood stumps, placed them in piles, and burned them. Only a portion of the fields on the south side of the site therefore have been burned, and the majority of these areas have been allowed to grow back into old field and young trees. These factors indicate that the area has probably not had sufficient burning to maintain populations of American chaffseed. The project will therefore not impact this species.

1.2.7.15 The State of South Carolina Heritage Program (SCHP) does not include records of any federal-, state-, or Heritage Program-listed species of plants or animals from the OOU6 area (SCHP 1997). Because the upland portions of the site have been extensively disturbed or planted into pine over the majority of the property, it is unlikely that most of the species listed in Table 1.1 actually occur there. However, the remaining deciduous forested uplands, forested wetlands, and seepage slope wetlands on the site are relatively undisturbed and could harbor some of the species listed in Table 1.1. Since only minimal disturbance of forested areas will occur as a result of identification and removal of UXO, the proposed project will have a minimal impact, if any, on the various state- and Heritage Program-listed species listed in Table 1.1.

#### 1.2.8 Current Land Use

- 1.2.8.1 OOU6 encompasses all of the property owned by Dr. W. Brownlee Lowry (MD) and portions of properties owned by J. Larry Faulkenberry & Almond Forest Products, Inc., Robert E. Lee, Dr. Glenn L. Scott (MD), Neil Robinette, Timothy M. Chastain, Margie F. Purser, and Milliken & Co. Figure 1-3 provides a property boundary map showing the properties located within OOU6.
- 1.2.8.2 During the site visit conducted on August 28, 1996, OOU6 was found to be heavily vegetated, except in the areas of development on Dr. Lowry's property, such as Landfill 1; compost area; proposed site pond; front gate area; roads; former magazine storage area; and isolated clearings. Figure 1-3 includes existing and proposed development in the area of OOU6. Numerous changes occurred between the initial site visit and the mobilization for the OE Engineering Design project fieldwork in December 1996: a large portion of the proposed pond area had been devegetated and topographically altered, Landfill 1 had expanded, additional roadways were constructed across the site, and vegetation foliage was greatly reduced due to seasonal factors.
- 1.2.8.3 The Landfill 1 Area (footprint is approximately 3 acres), located in the center of Dr. Lowry's property, is currently in the process of being filled with Class I industrial waste and demolition debris. A compost area (Compost A) is located south of



the Landfill 1 area. Dr. Lowry stated that his plans are to expand the compost operations within the immediate area. A second compost area, Compost Site B, has not become active since the initial site visit.

- 1.2.8.4 Development of the site pond in the area immediately southwest of Landfill 1 has been initiated. During periods of slower Landfill 1 operations and on weekends, Dr. Lowry's employees have constructed diversion dikes, sediment basins, and other related structures in support of the future filling of the pond. In particular, a siltation dam has been constructed to prevent silt materials from getting into the pond and for erosion control purposes. Runoff from upland areas to the north and northeast of the control portion of the site would be routed through the siltation dam to the pond. This active development is expected to continue for some time.
- 1.2.8.5 The county Planning Department has no file for the construction of the site pond on Dr. Lowry's property. However, a construction plan for building a silt dam for erosion control near the currently proposed pond area was noted. The silt dam has been built.
- 1.2.8.6 Based on a visual inspection of OOU6, it appeared that there is no other active development on the adjacent properties within OOU6.

#### 1.2.9 Future Land Use

- 1.2.9.1 On August 29, 1996 Parsons ES visited the Spartanburg County Planning Department regarding the planned development of OOU6. Discussions were conducted with Mr. Dale Harvey, Department Manager. Parsons ES received a copy of the compost facility, Class I landfill, and the construction/demolition debris permits, issued in April 1994. These were the only planned development permits available at the County Planning Department.
- 1.2.9.2 The development plans for Dr. Lowry's property indicate a minimum of four landfill expansions (phases) which are shown to progress from the Phase I area eastward towards the Phase II area. The Phase I (Landfill 1) will cover an area of 3.1 acres and the Phase II (Landfill 2), will cover an area of 4.2 acres. Two additional phases (Phase III and IV) are shown on the development plan and are identified in the land use map (Figure 1.3) as possible future landfill expansion areas. These expansion areas would occupy the area between Landfill 1 and Landfill 2. These areas were cleared during the TCRA.
- 1.2.9.3 The development plans provided locations of the compost areas (Compost A and B). Compost A is shown covering an area of 3 acres and Compost B is shown covering an area of approximately 4.6 acres. Compost A has been constructed and is currently in operation. Compost B has not been constructed.
- 1.2.9.4 The development plans also provided cross-sections and details with locations of proposed dirt roads/paths, diversion dikes, sediment basins, and an equipment shelter. During the site visit, it was noted that most of the site access roads

have been completed. It is likely in the near future that other paths or dirt roads may be constructed within the site.

- 1.2.9.5. At the time of the initial site visit in August 1996, Dr. Lowry stated that a storage barn is planned to be located in the area designated for magazine storage area. The Magazine Storage Area was subsequently constructed at this location with Dr. Lowry's approval during the OE Engineering Design since the barn construction had not yet been initiated.
- 1.2.9.6 A grading permit will be required for all land disturbing activities, such as the excavation of soils and the building of roads (excluding waste disposal or composting) if the land disturbance was two acres in size or greater. The grading permit would require the development of stormwater runoff and sedimentation plans. Areas that are impacted, which are less than two acres in size, only require notification.
- 1.2.9.7 There was no information on the proposed development on adjacent properties within OOU6.

#### 1.3 REGULATORY ISSUES

#### 1.3.1 State and Local Regulations

The administrative requirements for compliance with state and local regulations generally do not factor into this investigation because of the general CERCLA exemption. However, close coordination with state and local regulatory agencies will be conducted to ensure compliance with all relevant rules, regulations, and policies.

#### 1.3.2 Assessment of Applicable or Relevant and Appropriate Requirements

- 1.3.2.1 Section 121(d)(1) of CERCLA, as amended by the Superfund Amendments and Reauthorization Act (SARA), requires that remedial actions must attain a degree of cleanup that assures the safety of human health and protection of the environment. Moreover, all potential Applicable or Relevant and Appropriate Requirements (ARARs) must be outlined. ARARs include federal standards, requirements, criteria, and limitations under state environmental or facility siting regulations that are more stringent than federal standards.
- 1.3.2.2 Although the requirements of CERCLA Section 121 generally apply as a matter of law only to remedial actions, USEPA's policy for removal actions is that ARARs will be identified and attained to the extent practicable. Three factors are applied to determine whether identifying and attaining ARARs is practical in a particular removal situation. These factors include:
  - the exigencies of the situation;
  - the scope of the removal action to be taken; and
  - the effect of ARAR attainment on the statutory limits for removal action duration and cost.

- 1.3.2.3 ARARs are identified on a site-specific basis and involve a two-part analysis: first, a determination is made whether a given requirement is applicable; then if it is not applicable, a determination is made whether it is nevertheless both relevant and appropriate. When this analysis results in a determination that a requirement is both relevant and appropriate, such a requirement must be complied with to the same degree as if it were applicable.
- 1.3.2.4 "Applicable" requirements are those cleanup standards, control standards, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant or contaminant, remedial action, location, or other circumstance at a remedial action site. "Relevant and appropriate" requirements are cleanup standards and control standards, and the substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that, while not "applicable" to ordnance, a remedial action, the location, or other circumstance at a remedial action site, address problems or situations sufficiently similar to those encountered at a site to where their use is well-suited.
- 1.3.2.5 The USEPA has identified three categories of ARARs: chemical-specific, location-specific, and action-specific. According to the NCP, chemical-specific ARARs are usually health or risk-based numerical values that establish the acceptable amount of concentration of a chemical that may remain in, or be discharged to, the ambient environment. Location-specific ARARs generally are restrictions placed upon the concentration of hazardous substance or the conduct of activities solely because they are in special locations. Some examples of special locations include flood plains, wetlands, historic places, and sensitive ecosystems or habitats. Action-specific ARARs are usually technology or activity-based requirements or limitations placed on actions taken with respect to hazardous wastes, or requirements to conduct certain actions to address particular circumstances at a site.
- 1.3.2.6 Chemical-Specific ARARs. No chemical-specific ARARs or TBCs have been identified for the removal action at the former CCATF because only the removal of OE is being considered in this OE Engineering Design and not any residual contamination that may have occurred due to ordnance burial, detonation, or disposal.
- 1.3.2.7 Location-Specific ARARs. There are three potential location-specific ARARs pertaining to the removal action at the CCATF. These include the National Historic Preservation Act, Protection of Wetlands, and the Endangered Species Act. The ASR for Camp Croft discussed the presence of some historical or cultural resources in the CCATF area by CEHNC however, not specifically at OOU6 and none were found on the property. No evidence of historical or cultural resources was found during this investigation effort at OOU6. Parsons ES found that the site contains Corpsjurisdictional wetlands, but these habitats will not be disturbed through the implementation of any OE removal action. Parsons ES also found that no endangered species would be impacted by the clearance of OE from the property.

- 1.3.2.8 Action-Specific ARARs. One action-specific TBC, Army regulation AR 385-64, requires that safety measures be taken for the handling of explosive ordnance. Moreover, DoD 6055.9-STD requires that specialized personnel be employed to detect, remove, and dispose of ordnance. This standard also defines safety precautions and procedures for the detonation or disposal of ordnance.
- 1.3.2.9 Non-promulgated advisories or guidance documents issued by federal or state governments do not have the status of potential ARARs. However, these "to be considered" criteria (TBC) may be used to determine the necessary level of cleanup for human safety and protection of the environment. Potential ARARs and TBCs for the OOU6 OE Engineering Design project are listed in Table 1.2 and discussed in the previous paragraphs.

#### 1.4 PUBLIC INVOLVEMENT

1.4.1 A public outreach program exists for the former CCATF. This program is administered by a Restoration Advisory Board (RAB) which was established to facilitate public involvement and awareness of previous and ongoing restoration work at the former CCATF. Mr. Wayne Bogan, Jr. of the U.S. Army Corps of Engineers, Charleston District Project Management Branch, is responsible for coordinating all activities conducted by the CCATF RAB. Since only a few property owners exist within the OOU6 area, a direct line of communication has been established between Mr. Bogan and the property owners. Therefore, the need for public involvement is limited to only these property owners. The RAB provides local residents with valuable information concerning the restoration work and procedures to follow in the event of ordnance discovery at the former CCATF. Minutes of RAB meetings pertaining to the CCATF are kept in a repository in the Spartanburg County Library. All administrative records pertaining to all restoration work at the CCATF are available for public examination at the Spartanburg County Public Library.

#### 1.5 PREVIOUS INVESTIGATION

#### 1.5.1 Site Survey of Former Camp Croft

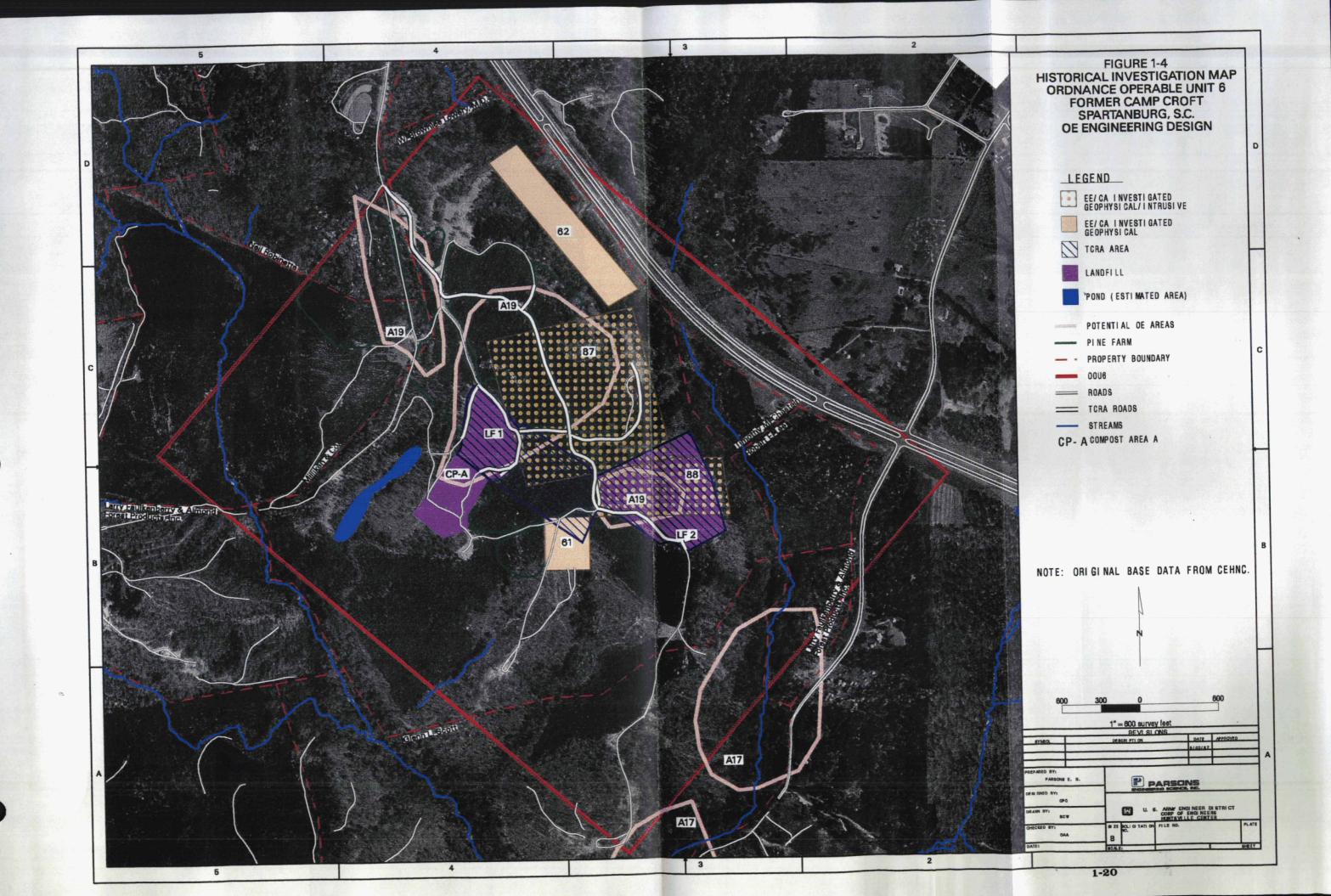
In 1984, the USACE conducted a site survey of the former CCATF. This site survey concluded that the "potential for unexploded and dangerous bombs, shells, rockets, mines and charges either upon or below the surface" could be found at the former CCATF. An aerial photograph and historical investigation information map of OOU6 is presented in Figure 1-4. Figure 1-5 presents a contour overlay on the historical investigation map.

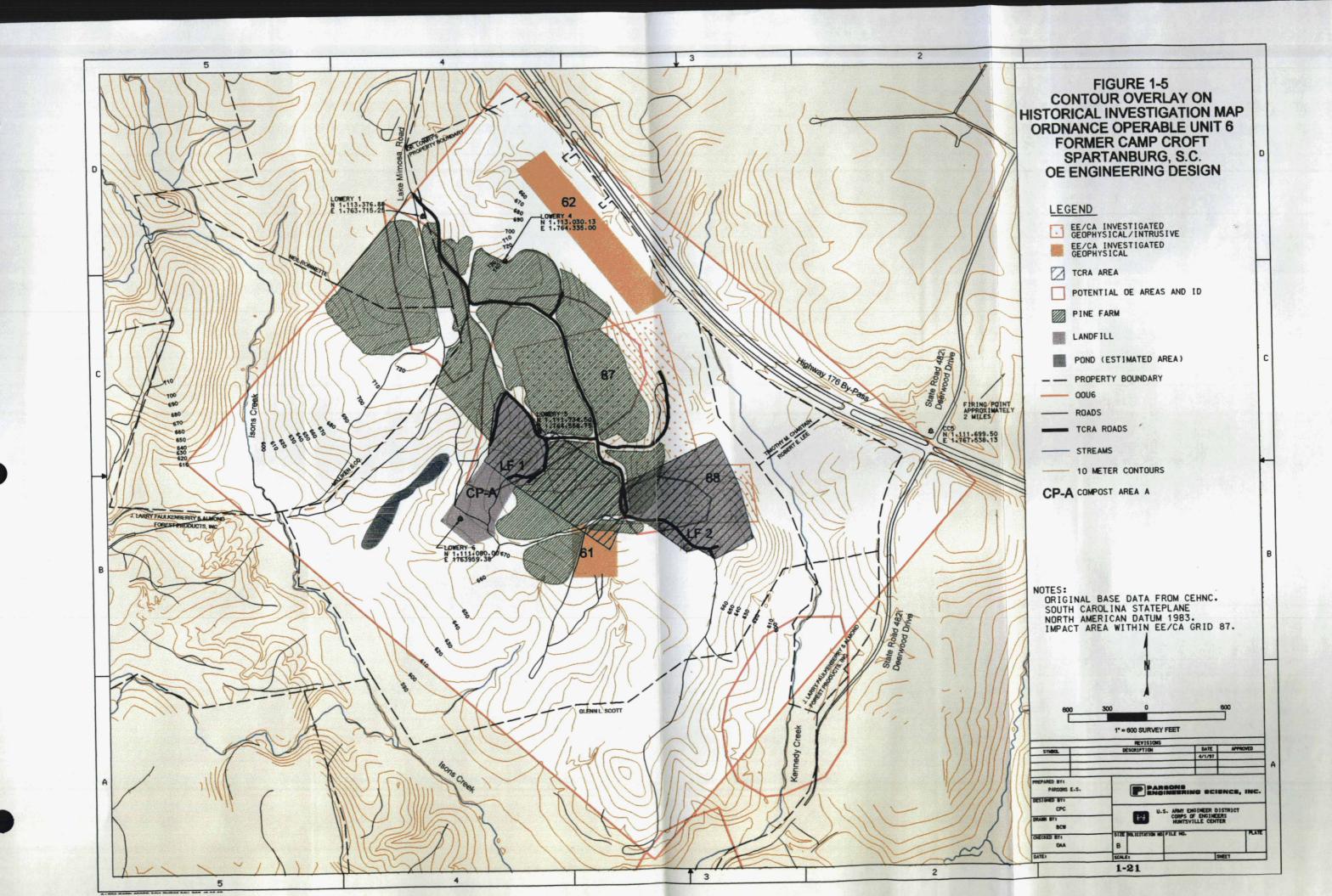
#### 1.5.2 Preliminary Assessment Study of OOU6

In 1991, the USACE, Charleston District conducted a Preliminary Assessment Study of this site. This study determined that the site was eligible for further investigation under the DERP FUDS program. This study also determined that the site contains several locations where drums were placed inside wells during the closure procedures

# TABLE 1.2 POTENTIAL ARARS FOR THE REMOVAL ACTION CROFT OE ENGINEERING DESIGN

| Activity   | ARAR/TBC  | Citation                | Applicability or Relevance   |
|--|---|-------------------------|--|
| Chemical-Specific  |   |                         |  |
| None   |   |                         |  |
| Location-Specific  |   |                         |  |
| Location of an action within an area where it may cause irreparable harm, loss or destruction of significant artifacts or historic landmarks | National Historic Preservation<br>Act                   | 36 CFR Part 65, and 800 | During removal action, any material that may be considered historical will be reported pursuant to requirements                    |
|  | Protection of Wetlands                                  | 33 CFR 320 et. seq.     | Requires action to be taken to   |
|  |   | Executive Order 11988   | minimize loss or degradation of wetlands.  |
|  | Endangered Species Act                                  | 16 USC 8 1531 et. seq.  | Requires that actions authorized do not jeopardize the continued existence of endangered or threatened species, or their habitats. |
| Action-Specific  |   |                         |  |
| Excavation   | Dept. of Army Ammunition and Explosive Safety Standards | AR 385-64               | TBC that establishes army standards for locating, handling, and disposing of munitions.  |
|  | Department of Defense Ordnance<br>Safety Standards      | DOD 6055.9-STD          | Requires specialized personnel be employed in the detection, removal, and disposal of OE.  |





conducted at the site. The report generated by this assessment did not indicate the presence of soil or groundwater contamination due to medical, ordnance, or chemical weapons.1.5.3

#### 1.5.3 Site Inspection and Archives Search of Former CCATF

In 1994, the USACE, Rock Island District conducted a site inspection and archives search of the former CCATF (USACE, 1994). The final report, dated April 1994, outlined the nature and degree of OE/UXO contamination to be found at the former CCATF. This report listed the ordnance that may be found at or below the surface (see Section 2.2 of the ASR). This report also stated that the gas chamber and gas obstacle course no longer exist, and that no historical recorded evidence was located to document and confirm the presence of chemical ordnance since site closure. It did state, however, that based on the nature of the former CCATF's training mission, the potential for chemical ordnance or chemical contamination of the area's soil does exist. It is believed that chemical training conducted during that period would have involved the use of CN, a tearing agent, as a training chemical.

#### 1.5.4 Time Critical Removal Action at OOU6

- 1.5.4.1 In 1994 and 1995, Human Factors Applications, Inc. (HFA) performed two Time Critical Removal Actions (TCRAs) at the former CCATF; one at the State Park and the second at OOU6. The TCRA at OOU6 was planned for a 30 acre area currently owned by Dr. Lowry but was completed over an area of approximately 15 acres. The areas cleared included access roads into and out of the site and a work area where asphalt recycling equipment was to be installed. Future development areas proposed by Dr. Lowry were also included. Figure 1-4 presents the locations of the TCRA grids.
- 1.5.4.2 The objective of the TCRA was to remove surface and subsurface OE to a depth of four feet within the work areas and to conduct geophysical mapping of the planned site. HFA established grids in the work areas and performed magnetometry searches using Schonstedt GA52/72 magnetometers. The following table provides a list of the ordnance recovered during the TCRA:

| Date          | Description                  | Grid |
|---------------|------------------------------|------|
| Oct. 18, 1994 | One Live 105mm with M48 fuse | A13  |
| Nov. 17, 1994 | One 60mm HE with fuse        | B30  |
| Nov. 17, 1994 | One 60mm HE with fuse        | B15  |
| Nov. 17, 1994 | One 155mm Burster Tube       | B14  |

1.5.4.3 All subsurface anomalies were excavated by hand and their identities determined. UXO that was unsafe to move was detonated in place. UXO and OE determined to be safe were destroyed on-site in a designated open detonation area.

#### 1.5.5 Engineering Evaluation/Cost Analysis at OOU6

- 1.5.5.1 In 1995 and 1996, ESE performed an EE/CA at the former CCATF (ESE, 1996a). The purpose of this EE/CA was to analyze removal alternatives to reduce the risk of public exposure to OE/UXO at sites previously identified in the 1994 ASR (USACE, 1994). The EE/CA addressed nine OOUs where OE/UXO were either previously confirmed or suspected. Six OOUs were within Croft State Park. The remaining three OOUs were located on private property sites outside the park, but within the former CCATF boundary.
- 1.5.5.2 ESE was directed by CEHNC to investigate four areas within the boundaries of OOU6, including the planned "compost B" area, the "poppy field", the proposed location of "landfill No. 2", and one unnamed area. These areas were designated as Grids 61, 62, 88, and 87, respectively. Grids 61 and 62 were investigated on October 28 and 29, 1994, and Grids 87 and 88 were investigated January 17 through 23, 1995. Figure 1-4 presents the locations of the EE/CA grids.
- 1.5.5.3 The investigation of Grids 61 and 62 consisted only of magnetometer surveys and a recording of anomalies. No intrusive operations were conducted at the time due to shortage of funds to complete this effort. However, the investigation of Grids 87 and 88 included both magnetometer surveys and intrusive operations. Significant UXO findings included four 60mm and seven 81mm projectiles, nine 105mm smoke canisters, mortar parts, and numerous fragments in Grid 87. No UXO was found in Grid 88. All recovered UXO were detonated in place by qualified UXO personnel.
- 1.5.5.4 Table 1.3 summarizes the configuration, sampling methodology, anomalies recorded, anomalies investigated, and OE findings for each grid within OOU6. QuantiTech performed a safety risk assessment for the EE/CA prepared on OOU6 and estimated a maximum UXO density of 1.31 per acre for OOU6 and a probability of exposure of zero to 1/2 per activity per visit.

#### 1.5.6 Supplemental Archives Search of Former CCATF

- 1.5.6.1 ESE obtained an orthophotograph and prepared a geographic information system for the site as part of the development of the evaluation and prioritization of OE removal at former CCATF (ESE, 1996b). The purpose of this assignment was to develop a plan of action that could be used in the future to facilitate efficient investigation, identification, and removal of suspected OE at the former CCATF with a prediction of the presence and location of OE to be accomplished through the study of historical records and the evaluation of past and current land use at the former CCATF.
- 1.5.6.2 The initial investigation focused on using historical and current information to identify areas of interest (AOI). These AOIs formed the basis for subsequent evaluations and analyses. Aerial photography and orthophotography, synthetic aperture radar (SAR) image analysis, and digital elevation models (DEM) were used to identify potential OE sites and adjacent properties.

Table 1.3
OE/UXO Findings at OOU6, EE/CA Effort

| Grid   | Configuration (ft)  | Sampling<br>Method | Anomalies<br>Recorded/<br>Investigated | OE/UXO Findings (quantity in parentheses)                                      |
|--------|---------------------|--------------------|--|--|
| Ordnar | nce Operable Unit 6 | <u> </u>           |  |  |
| 61     | Linear              | none               | 372/0                                  | none   |
| 62     | Linear              | none               | 709/0                                  | none   |
| 87     | Rectangular         | other              | 218/218                                | 105mm smoke canisters (9),<br>60mm (4) and 81mm (7),<br>motar parts, fragments |
| 88     | Irregular           | other              | 42/42                                  | fragments  |

Source: ESE, 1996

- 1.5.6.3 In March 1995, CEHNC authorized ESE to prepare a SASR in an effort to locate possible additional firing, bombing, and strafing ranges at the former CCATF (ESE, 1996c). The following activities were conducted from April through August 1995 as a part of the SASR:
  - Searches of national, regional, and local archives;
  - Searches of databases including the Department of Defense database-Defense Technical Information Center (DTIC), Lexis, and Nexis;
  - Placement of notices in national and local publications;
  - Operation of a toll-free telephone number to receive information from persons knowledgeable of past CCATF activities;
  - Onsite interviews with the local populace;
  - Hosted a Public Open House near the former CCATF; and
  - Conducted Windshield Surveys or driveby surveys to locate possible OE sites.

As a result of the SASR, 134 sites were identified as having potential OE contamination.

#### 1.5.7 Final Supplemental Engineering Report and Site Reconnaissance

1.5.7.1 In October and November 1995, ESE performed a site reconnaissance of each of the 134 sites where a right-of-entry (ROE) was available from the owner(s) (ESE, 1996d). ROEs were available and a site reconnaissance was conducted at 97 sites. The reconnaissance consisted of a non-intrusive, magnetometer survey and visual inspection of each site that could be identified. A Final Supplemental Engineering Report was submitted to CEHNC in March 1996.

### 1.6 CURRENT STUDY [ENGINEERING DESIGN] RESULTS, CONCLUSIONS, AND FINDINGS

#### 1.6.1 Investigation Activities and Results

- 1.6.1.1 Site investigations were conducted at the former Camp Croft Army Training Facility, Ordnance Operable Unit 6, between December 1996 and February 1997 to determine the nature and extent of OE contamination. The information gathered from these site investigations was used to prepare the Engineering Design. The Engineering Design document determines the most appropriate response action to reduce the public safety risk posed by OE at the site. The investigations conducted during the Engineering Design study included:
  - review of historical data (archival investigation);
  - geophysical survey investigation;
  - intrusive investigations; and

- integration of all of the data collected from these investigations into the former Camp Croft Army Training Facility, Ordnance Operable Unit 6, Geographic Information System (GIS).
- 1.6.1.2 Based on the data collected during these site investigations, an Engineering Design was prepared. The Engineering Design focused on conventional OE/UXO risks requiring non-time-critical removal actions (NTCRAs) within the boundaries of OOU6. The purpose of the Engineering Design was to determine the most appropriate response action to address any OE risk at OOU6 and to evaluate follow on remedial action where warranted. The site characterization data was used to identify and classify the portions (sectors) of the site that are potentially contaminated with OE/UXO. For these areas, alternatives were identified and developed to address the safety risks pertaining to OE exposure at the site. This subsection presents a description of the site investigation activities, the investigation's results, and a discussion of the types of OE items found at the site. Detailed discussion of the Engineering Design field activities are provided in Appendix A. The nature and extent of OE contamination found at the site based on these investigations is then summarized in Section 1.7.

#### 1.6.2 Site Visit and Archival Investigation

- 1.6.2.1 The site visit was conducted between August 28 and 29, 1996. The purpose of the site visit was to visually inspect, photograph, and videotape the existing improvements at OOU6 and obtain historical site documentation to evaluate both past and current land use, assess the type and quantity of ordnance that has been employed, and evaluate the site's potential for buried OE. Activities such as gathering of recorded documentation of planned development for the site, discussions of endangered species and wetlands concerns, establishment of contacts with local state agencies, and verification of local hospital routes and emergency (police, fire, etc.) jurisdictions.
- 1.6.2.2 A review of the historical documents and studies conducted at the former CCATF provided sufficient information on the potential nature and locations of OE that may be present at the site. The historical documents reviewed included:
  - the Preliminary Assessment Report prepared by the US Army Corps of Engineers, Charleston District in 1991;
  - the ASR prepared by the US Army Corps of Engineers, Rock Island District in April 1994;
  - the TCRA Report prepared by HFA in 1995;
  - the EE/CA Report prepared by ESE for CEHNC in 1996;
  - the Evaluation and Mapping Report prepared by ESE for CEHNC in 1996;
  - the SASR prepared by ESE for CEHNC in 1996; and
  - the Supplemental Engineering Report prepared by ESE for CEHNC in 1996;
- 1.6.2.3 The review of historical documents revealed that the Department of the Army used the area designated as OOU6 as an impact range for 105mm artillery shells.

In addition, other firing ranges may have been located on the property. The firing ranges at the former CCATF consisted of pistol, rifle, machine gun, mortar, anti-aircraft, and anti-tank ranges. Any number of exercises may have been conducted at the site between establishment of CCATF in January 1941 and the declaration of the property as surplus in 1947 by the War Assets Administration. Structures once located on the facility were subsequently removed by the Army. During previous investigations, OOU6 was divided into several areas. Figure 1-4 shows the designation of these areas. Landfill 1 and proposed Landfill 2 comprise part of an area investigated/remediated during the TCRA. Two areas, Grids 87 and 88, comprise areas investigated during the EE/CA investigation. Two other areas, Grids 61 and 62 were geophysically investigated but intrusive effort to confirm the presence of UXO items was not performed during the EE/CA investigation. Aside from the landfill, land use within OOU6 includes compost areas, extensive pine farm forests, pond construction, small wetland areas, access roadways, and natural brush/forest areas. The Grid 87 area encompasses most of the location of the ordnance impact area, as identified in the ASR. However, it is assumed that a percentage of the rounds fired at the target located within the Grid 87 area would have missed and landed within some of the other areas within OOU6. The presence of ordnance was confirmed at Grid 87 during the EE/CA investigation and in Landfill 1 during the TCRA. Recovered ordnance included 60mm mortars, an 81mm illumination projectile, and 105mm projectiles (both live and inert). The site is currently used as an industrial landfill, pine farm, and private hunting area. Occasionally hikers may pass through the site.

- 1.6.2.4 A visual site inspection conducted by USACE Charleston District during the PA did not confirm the presence of OE in OOU6. Although no OE items were found, OOU6 was believed to include OE items based on the following:
  - the location of the target impact area onsite;
  - the probability of impacts due to undershoot/overshoot; and
  - eyewitness accounts.

#### 1.6.3 Geographical Information System (GIS), Survey, and Mapping

1.6.3.1 The Engineering Design at OOU6 included the use of a GIS. GIS was used effectively on this project to plan and design sampling grids, locate sampling grids in relation to vegetation cover and topography while providing adequate survey coverage and sampling density, develop a site specific database, QC and catalogue data, and to analyze specific data attributes required for risk evaluation. Data attributes of significant importance were queried to provide the basis for development of maps that present results of site characterization work. The GIS employed was able to assemble and configure site survey data and was tailored for the specific needs of the site. Existing CCATF GIS-CADD maps were provided by CEHNC to develop the initial investigation map for the site. The data gathered from the geophysical investigation was combined with the intrusive investigation data and was incorporated into the GIS to establish a profile for specific OE items found at the site. This information assisted in the evaluation of the potential cleanup costs of various levels of OE clearance at the site.

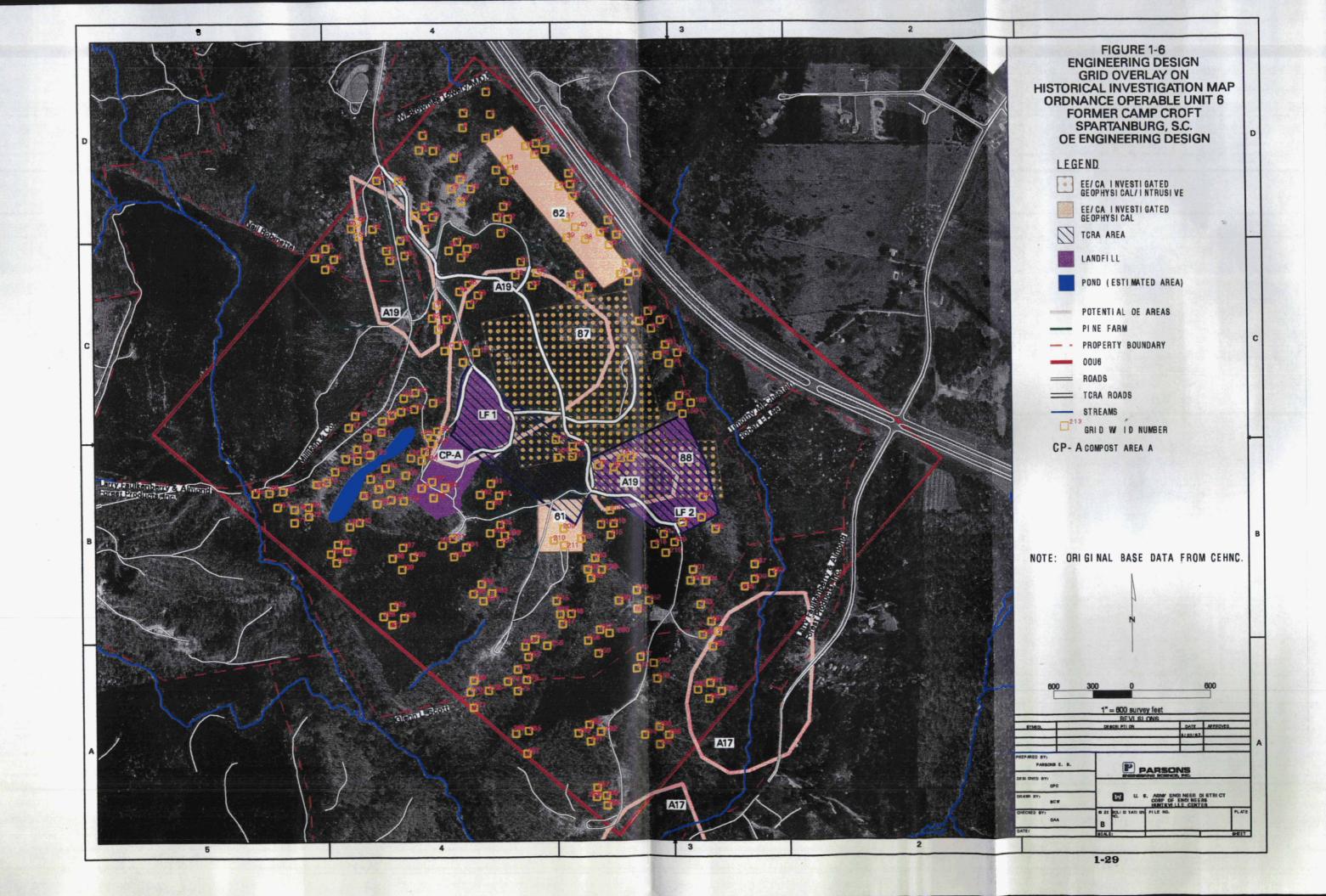
- 1.6.3.2 Specific areas where the GIS was used included the following: (1) land survey data was successfully transferred to establish a GIS base map that was used to plan and design the geophysical investigation; (2) the geophysical survey data was then incorporated into the GIS and was used to direct the intrusive operations; and (3) the GIS was used to perform the evaluation, analysis, and interpretation of the geophysical and intrusive investigation data to establish a profile for specific OE items found at the site.
- 1.6.3.3 Control points were set up throughout the site to accurately locate the geophysical survey sampling grids. The coordinates of each of these control points was entered into the GIS using the North American Datum of 1983 (NAD83) referenced to the South Carolina State Plane Grid System. The grids were 50 foot by 50 foot squares oriented north-south to enable quick tracking of grid locations and access to each grid during subsequent investigations. Grid clusters were established, consisting generally of 4 individual grids, to reduce travel time between grids. The sampling grids established for the site are depicted in Figure 1-6. Further details on the GIS used at CCATF are provided in Appendix A. QC of the location surveys of the grid corners were conducted. The QC results indicated that the grid corners met the required level of accuracy (+ or -1.0 foot). For more details see Appendix A.

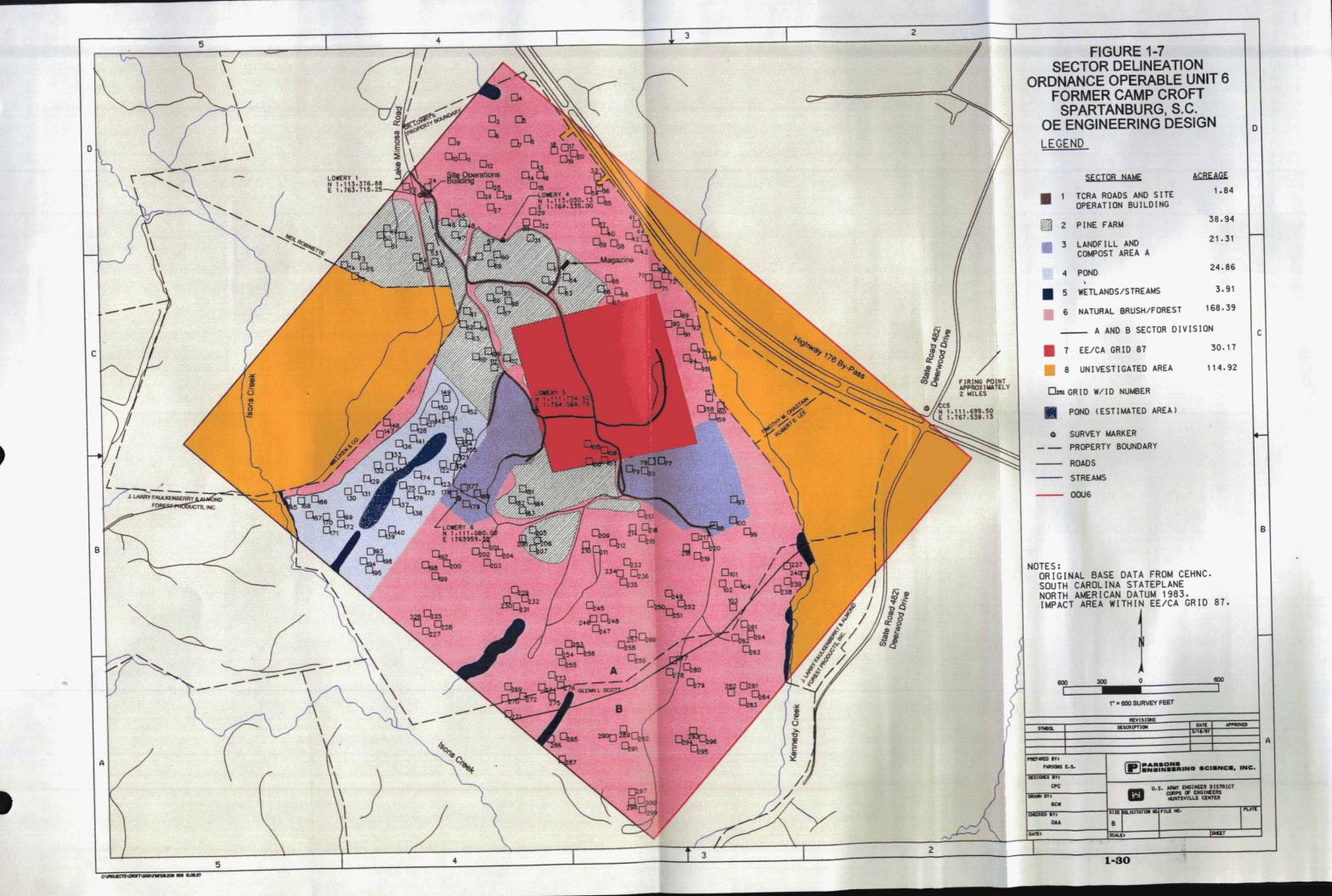
#### 1.6.4 Area Definitions

- 1.6.4.1 Based on a combination of similarities of characteristics regarding physical site features, land use, historic attributes, locations of OE items recovered, and previously investigated/remediated areas, several sectors were delineated within OOU6. Specifically, the site was divided into eight sectors. Figure 1-7 depicts the location and configuration of the sectors. The rationale for dividing the OOU6 into sectors was to provide a basis by which the risk evaluation was conducted for the site. Each of the sectors was analyzed separately both for the risk assessment as well as the potential removal action alternatives due to the differences in the field investigation findings and differences in the current and anticipated use of each of these areas.
- 1.6.4.2 Due to overlap among portions of several of the sectors, sector reference numbers were established to enable identification of areal expanse of sectors and sectors to which OE Engineering Design sampling grids were assigned. Section reference numbers and names are depicted on Figure 1-7 which shows Sector 7 (EE/CA Grid 87) overlapping both Sector 2 (Pine Farm) and Sector 3 (Landfill and Compost A Areas).

#### 1.6.5 Sector Descriptions

1.6.5.1 Roads and Site Operations Building (Sector 1). This sector consists of existing site roads (1.76 acres) and the landfill operations building (0.08 acre) that were cleared of ordnance during the TCRA (Figure 1-7). Currently a total of 7.07 acres of roadways exist within OOU6 for which OE clearance has not been conducted by representatives of the Corps of Engineers. These roadways will therefore be considered "paths" and will be evaluated as part of the sectors in which they reside. A general observation during the field work was that many of these paths are lined with construction debris to enable better tracking for site operation vehicles and for erosion control. No information is available as to whether the County Roads (Highway 176





bypass and Deerwood Drive) within OOU6 were cleared, but since they are currently paved their acreage was excluded from Sector 1. No sampling grids were established within Sector 1.

- 1.6.5.2 Pine Farm (Sector 2). This sector includes a large portion of the northern and north/central portions of the site that are thickly forested with pine trees. Many of these trees are planted in rows and are of similar size and height (about 10 feet). Based on visual observation of maturity, the pine trees were planted during the same general timeframe (about 5-7 years old). The Pine Farm Areas cover a total of 38.94 acres (Figure 1-7). Forty-three sampling grids were established within this sector. The Pine Farm includes an expanse of land area planned for future expansion of Landfill 1 and Landfill 2. This area is designated as future Phase III and Phase IV landfill expansion areas in the land use map (Figure 1.3). Included in this sector is the future storage barn (approximately .5 acre area).
- 1.6.5.3 Landfills and Compost A Area (Sector 3). An industrial landfill is operated by one of the property owners (Dr. Lowry) within the OOU6 site. The available information indicates the primary landfill areas are Landfill 1 and Landfill 2. In this review document landfill layout at OOU6 (for example, in the TCRA Report) included Landfill 1 and Landfill 2. Landfill 1 is currently active along with several adjacent composting areas. The area for subsequent expansion of landfill operations (Landfill 2) has been defined by the property owner and approved by the Spartanburg County and the state regulatory agency. Landfill 1, the proposed Landfill 2, and the associated composting areas cover a total of 21.31 acres (Figure 1-7). Compost A lies in the southern half portion of the area designated as Landfill 1 and Composting Area A (Figure 1.3 and Figure 1.7). A general observation during field work indicates the presence of more than 1 existing composting areas within the Landfill 1 and Composting Area. Much of the areas within this sector were previously investigated/cleared of ordnance during the TCRA, therefore no OE Engineering Design field investigation was planned for this area. However, there was a concern that a portion of this area was not investigated/cleared during the previous investigation. Based on this concern, CEHNC requested additional sampling grids in this sector. In this regard, eleven sampling grids were established to provide additional characterization data for this area.
- 1.6.5.4 **Pond** (Sector 4). Development of a manmade pond is currently underway by one of the property owners (Dr. Lowry) within OOU6. During the OE Engineering Design fieldwork, heavy brush clearing and grading work were in progress around the intended pond area. The grading effort could potentially influence a change in the topograhy at this portion of OOU6. Most of the vegetation cover and many of the trees were removed. On the basis of the activities witnessed at this portion of OOU6, CEHNC requested an increase in the sampling grids established in this sector. Forty-three sampling grids were established within the sector. The Pond Area encompasses approximately 24.86 acres (Figure 1-7).
- 1.6.5.5 Wetlands (Sector 5). A number of small streams and wetlands traverse OOU6. Many of these streams are intermittent and flow only during periods of

- significant rainfall. However, several perennial streams and wetland areas are present on the site. Five of these areas, although not contiguous, were grouped together as a sector. The combined acreage of these geomorphological features is approximately 3.91 acres. No sampling grids were established within this sector due to regulatory restrictions.
- 1.6.5.6 Natural Brush/Forest (Sector 6). A large portion of OOU6 is undeveloped. Much of this area is covered by sparse to moderate hardwood forest and natural brush. Pine farms have not been cultivated although there is evidence of past hardwood timber harvests. The two extensive land areas falling into this category are generally located in the northern and south/central portions of OOU6, respectively. The total acreage of these areas is approximately 168.39 acres (Figure 1-7). To adequately cover this sector, 150 sampling grids were established. Included in this sector is the planned future Compost B, an area of approximately 5 acres.
- 1.6.5.7 EE/CA Grid 87 (Sector 7). This sector was defined to coincide with EE/CA Grid 87. This grid was previously investigated and deemed contaminated with ordnance. Grid 87 overlaps small portions of the Pine Farm and the Landfill and Composting Areas. The overlap areas are excluded from the acreage of the Pine Farm and the Landfill. EE/CA Grid 87 is comprised of approximately 30.17 acres (Figure 1-7). The approved Work Plan excluded this sector from investigation since it had reportedly been significantly investigated during the EE/CA. However, during the OE Engineering Design field work four sampling grids were established at the request of CESAC and CEHNC. This area lies at the south portion of Grid 87.
- 1.6.5.8 Uninvestigated Area (Sector 8). This area consists of all property within OOU6 for which access was not provided by the respective property owners during the OE Engineering Design field work. These areas consist of approximately 114.92 acres of land. Five sampling grids were established in areas thought to be completely within the property for which access had been obtained but subsequently were judged to be partially outside. Prior to confirming this information, geophysical investigation was performed at these five sampling grids. Subsequently, the stakes defining these grids were removed and the sampling grids were deleted from further investigation.
  - 1.6.5.9 Table 1.4 presents a summary of the acreage for all sectors.

#### 1.6.6 Geophysical Survey

- 1.6.6.1 A geophysical survey to detect ferrous metal objects was conducted at the former CCATF OOU6 between January 7 and February 7, 1997. The geophysical survey was conducted on 256 individual 50 foot by 50 foot grids. The locations of these grids were randomly selected across the areas of interest within OOU6 to optimize search effectiveness. Field activities for the geophysical survey included the following tasks:
  - setting up the equipment calibration verification test grid;

#### TABLE 1.4 SECTOR ACREAGE OOU6 OE ENGINEERING DESIGN

| Sector<br>Number |   | Acres  | No. of Grids<br>Sampled |
|------------------|---|--------|-------------------------|
| 1                | Roads and Site Operations Building                      | 1.84   | 0                       |
|                  | TCRA Cleared Roads and Building Area                    |        |                         |
| 2                | Pine Farm   | 38.94  | 43                      |
|                  | Future Storage Barn                                     |        |                         |
|                  | Future Phase III and IV Landfill Expansion Area         |        |                         |
| 3                | Landfill and Compost A Areas (1)                        | 21.31  | 11                      |
|                  | Landfill 1 and Proposed Landfill 2                      |        |                         |
|                  | Compost A   |        |                         |
| 4                | Pond Area   | 24.86  | 43                      |
| 5                | Wetlands/Streams  | 3.91   |                         |
| 6                | Natural Brush/Forest                                    | 168.39 | 150                     |
|                  | Compost B   |        |                         |
| 7                | EE/CA Grid 87   | 30.17  | 4                       |
| 8                | Uninvestigated Area (Access Denied)                     | 114,92 | 5                       |
|                  | Milliken and Company Property (Western Portion of Site) |        |                         |
|                  | J. Faulkenberry & Almond Forest Products Property       |        |                         |
|                  | Timothy M. Chastain Property (East Portion of Site)     |        |                         |
|                  | Robert E. Lee Property (East Portion of Site)           |        |                         |
|                  | Other small tract property owners  TOTAL                | 404.34 | 256                     |
|                  | TOTAL   | 404.34 |                         |

- (1) Area cleared for Landfills 1 and 2.
  - setting up the survey sampling grids;
    - staking and surveying sampling grid corners;
    - extensive clearing of brush and small trees within sampling grids;
    - clearing of brush and small trees (less than three inches in diameter) for access to sampling grids;
  - calibration verification of the Geonics EM-61 instrument to confirm factory calibration;
  - geophysical survey data acquisition using a 3-foot lane spacing; and
  - field data analysis.

1.6.6.2 Prior to the geophysical surveying of each sampling grid, a UXO certified expert surface cleared the sampling grids to ensure the safety of the geophysical survey crews. This UXO clearance involved a visual inspection and use of a Schoenstedt fluxgate magnetometer. Geonics EM-61 Electromagnetic Time Domain Metal Detectors were used by Parsons ES personnel to perform the geophysical survey. the "mag and

- flag" methodology was used. Further details on the description of this equipment, calibration verification effort, and procedures employed during the survey are provided in Appendix A. Photographs of the EM-61 being used are also included in Appendix A (Figures A.1 and A.2, respectively).
- 1.6.6.3 The total area geophysically surveyed at the former CCATF OOU6 was approximately 14.69 acres based on 256 surveyed 50-foot by 50-foot sampling grids. This constitutes 4.98% coverage of the 289.42 acres of the site for which access was granted. On the basis of the designated sectors (see Section 1.6.5), approximately 2.47 acres of the 38.94 acres were geophysically investigated in the Pine Farm, 0.63 acres of the 21.31 acres were geophysically investigated in the Landfill and Composting sector, 2.47 acres of the 24.86 acres were geophysically investigated in the Pond Area, 8.61 acres of the 168.39 acres were geophysically investigated in the Natural Brush/Forest Areas, and 0.23 acres of the 30.17 acres were geophysically investigated in the EE/CA Grid 87 sector. No geophysical investigations were conducted within the 1.84 acres of Roads and Site Operations Area and the 3.91 acres in the Wetlands/Streams sector. Approximately 0.29 of the 114.92 acres were geophysically investigated within the Uninvestigated Area sector (access denied), no intrusive investigation was conducted in these grids.
- 1.6.6.4 The geophysical investigation identified 2,310 anomalies. The results (the locations of the geophysical survey grids including number of anomalies detected) are depicted in Figure 1-8. Table 1.5 includes a summary of the geophysical survey investigation results. Detailed geophysical investigation data is included in Appendix C. The procedures used in identifying anomalies are described in Appendix A (paragraph A.1.5.5.1). No OE items were discovered on the grid surfaces during the survey and/or brush cutting surface clearance activities.

#### 1.6.7 Intrusive Investigation

- 1.6.7.1 The intrusive investigation was conducted to verify the EM-61's effectiveness to accurately locate OE items at the former CCATF OOU6. In this regard this effort was performed to safely and efficiently excavate, identify, and document OE recovered from the site; and to provide site characterization data to the site specific GIS database developed for OOU6. A summary of the intrusive investigation is provided in this section. A detailed description of all intrusive activities is provided in Appendix A. The intrusive investigation results are depicted on Figure 1-8 and also summarized in Table 1.5.
- 1.6.7.2 The intrusive investigation was performed from January 16, 1997 to February 26, 1997. The intrusive work was performed at a given grid after completion of the geophysical investigation at the grid. The Schoenstedt and Mk26 equipment were used to confirm if the sources of the EM-61 anomalies flagged prior to excavation of the location were of ferrous materials and to thereby ascertain potential presence of an OE item.

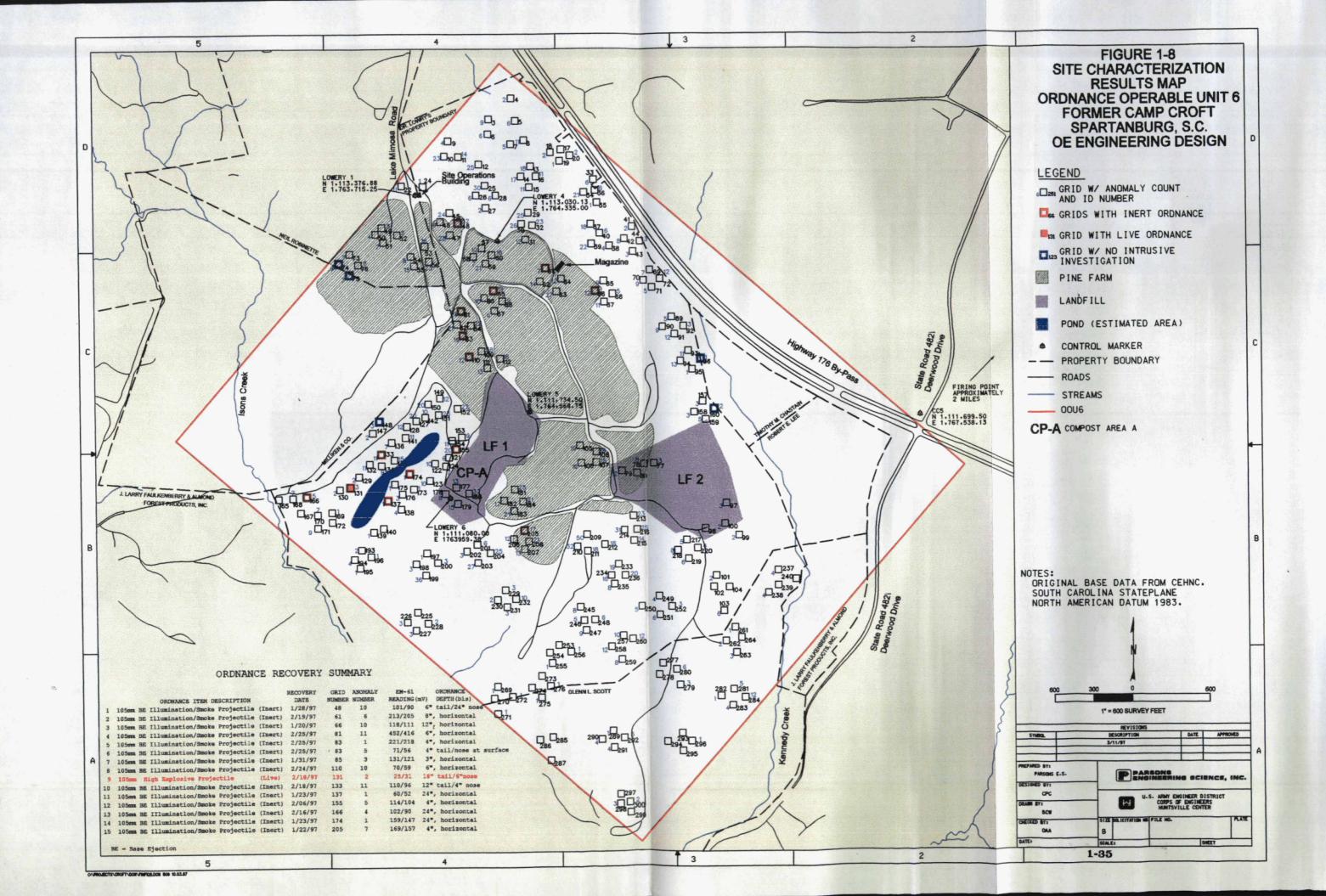


TABLE 1.5 CCATF OOU6 OE INVESTIGATION/ENGINEERING DESIGN SUMMARY OF OE DISTRIBUTION BASED ON INTRUSIVE INVESTIGATION RESULTS

| SECTORS              | TOTAL<br>ACRES | NUMBER<br>GRIDS | NUMBER<br>ANOMALIES <sup>(1)</sup> | ACRES<br>GEOPHYS<br>INVESTIG. | ACRES<br>INTRUSIVELY<br>INVEST | PERCENT<br>SECTOR ACRES<br>INTRUSIVELY<br>INVEST <sup>(1)</sup> | ORDNA<br>LIVE HE | NCE <sup>(3)</sup><br>INERT |
|----------------------|----------------|-----------------|------------------------------------|-------------------------------|--------------------------------|---|------------------|-----------------------------|
| 1 - Roads and Site   | 1.84           | 0               | 0                                  | 0.00                          | 0.00                           | 0.00%   | 0                | 0                           |
| Operations Bldg. (4) |                | 42              | 663                                | 2.47                          | 2.47                           | 6.34%   | 0                | 9                           |
| 2 - Pine Farm        | 38.94          | 43              |                                    |                               | 0.63                           | 2.96%   | 0                | 0                           |
| 3 - Landfill and     | 21.31          | 11              | 103                                | 0.63                          | 0.03                           |   |                  |                             |
| Compost A Areas      |                | 42              | 312                                | 2.47                          | 2.47                           | 9.93%   | 1                | 5                           |
| 4 - Pond             | 24.86          | 43              |                                    | 0.00                          | 0.00                           | 0.00%   | 0                | 0                           |
| 5 - Wetlands/Streams | 3.91           | 0               | 0                                  |                               |                                | 5.11%   | 0                | 0                           |
| 6 - Natural Brush/   | 168.39         | 150             | 1145                               | 8.61                          | 8.61                           | 5,117*  | -                |                             |
| Forest               |                |                 |                                    | 0.23                          | 0.23                           | 0.76%   | 0                | 0                           |
| 7 - EE/CA Grid 87    | 30.17          | 4               | 69                                 |                               |                                | 0.00%   | 0                | 0                           |
| 8 - Uninvestigated   | 114.92         | 5               | 18                                 | 0.29                          | 0.00                           | 0.0074  | ·                |                             |
| Area                 |                |                 | 0210                               | 14.69                         | 14.41                          | 3.56%   | 1                | 14                          |
| TOTAL                | 404.34         | 256             | 2310                               | 17.07                         |                                |   |                  |                             |

<sup>1</sup> Sector 6 data Includes 29 anomalies flagged during second EM-61 of Grid 199.

<sup>2</sup> Second calculation excludes Sector 8 area for which access denied and Sector 7 for which risk assessment was completed.

<sup>4</sup> TCRA Roads and site operation building acreage only. Other roads within OOU6 add up to 5.31 acres, which are included in the total acreage of the sectors in which they reside.

- 1.6.7.3 One HE 105mm projectile and 14 inert 105mm illumination/smoke projectiles were recovered at the site. A total of 324 of the 2292 anomalies (2310 minus 18 deleted grid anomalies) or 14.1% of the anomalies excavated from the 251 individual sampling grids were identified as "false positives". The reason for this level of false positive hits may be attributed to the presence of magnetic rocks and metallic soil layers at the site. "False positive" in this study implies no confirmed OE item(s) related sources at the anomaly location investigated.
- 1.6.7.4 A quality control (QC) check of 10% of the area of each grid was conducted by the UXO subcontractor using the Foerster Mk26 magnetometer. Although several UXO fragments were recovered using the Mk26, no ordnance was confirmed at any of the OC locations.
- 1.6.7.5 The live 105mm projectile was blown in-place upon discovery. The 14 inert 105 illumination projectiles were subsequently rendered safe on February 27, 1997. The scrap from the live OE item destruction and those from the 14 inert 105mm illumination/smoke projectiles were taken off site for disposal by a local recycler. Upon completion of the intrusive work, Parsons ES demobilized from the site on March 5, 1997.

#### 1.6.8 Profile of OE Item Recovered

- 1.6.8.1 Previous clearance operations conducted at OOU6 revealed several types of ordnance were used at the former CCATF. These ordnance items include:
- Live 105mm HE projectiles;
- Inert 105mm base ejection (BE) illumination/smoke projectiles;
- 60mm mortar projectiles;
- 155mm burster tube, and
- 81mm illumination projectile.
- 1.6.8.2 Only 105mm projectiles, one HE and 14 BE illumination/smoke projectiles, were recovered during the 1996/1997 OE Engineering Design. This section briefly discusses the configuration and dimension, major components, use, function, and other identification characteristics of each of these OE items. Table 1.5 presents the number of each potentially hazardous OE item recovered and how many of these items were rendered safe prior to final disposal. A description of these OE items and a representative photograph of each item are presented in the following paragraphs.
- 1.6.8.3 105mm Illumination Projectile. The 105mm illumination projectile was used for illuminating designated target areas during World War II. The ASR indicated that a target area (referred to as A19 or Red Hill) for 105mm High Explosive (HE) Projectiles was located in the center of OOU6. Numerous 105mm illumination projectiles have been recovered from the site during the EE/CA, TCRA, and the OE Engineering Design. The 19.33-inch projectile from a 105mm illumination projectile consisted of a hollow steel forging, a metal rotating band, and a pinned baseplate with a

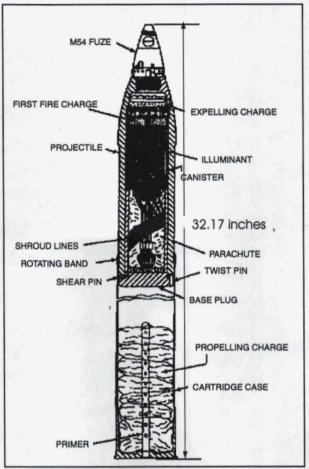
combined approximate weight of 33 pounds. The projectiles recovered from the site were assembled with M54 MTSQ (Time and Super Quick) fuzes threaded into the nose of the projectile. Other fuzes may have also been used. The projectile cavity contained the expelling charge, illuminating canister, and parachute assembly. The expelling charge consisted of 0.11 pounds of black powder contained in a cloth bag. illuminating canister contained 1.74 pounds of illuminant (capable of providing an average luminosity of 450,000 candlepower for a duration of 60 seconds) and a first-fire composition (0.15 pounds). The parachute assembly was attached to the illuminating canister body. A baseplate was affixed to the bottom of the projectile with three shear The complete 105mm illumination projectile was pins and three twist pins. approximately 32.17 inches long with an approximate weight of 46.43 pounds. Maximum projectile range was 12,590 yds (approximately 7 miles) with a maximum muzzle velocity of 1,621 feet per second. For recognition purposes, the 105mm illumination projectiles were painted gray with white bands/stenciling or white with black bands/stenciling. The stenciling indicated the type of round. Figure 1-9 is a photograph of a 105mm illumination projectile recovered from OOU6.

#### 1.6.8.4 105mm High Explosive Projectile

1.6.8.4.1 The 105mm High Explosive (HE) Projectile was used against personnel and light material targets during World War II. The ASR indicated that a target area (referred to as A19 or Red Hill) for 105mm HE projectiles was located in the center of OOU6. Several 105mm HE projectiles have been recovered from the site during the EE/CA, TCRA, and the OE Investigation/Engineering Design.

1.6.8.4.2 The 19.33-inch projectile from a 105mm HE projectile consisted of a hollow steel forging, a metal rotating band, and a welded baseplate with a combined approximate weight of 30 to 32 pounds. The projectiles unearthed at the site were reportedly assembled with M48 PD (Point Detonating) fuzes threaded into the nose of the projectile. Other fuzes may have also been used. The projectile cavity contained the HE filler which consisted of either 4.25 to 4.8 pounds of cast TNT or 4.6 to 5.08 pounds of Composition B. The fuze cavity (shallow or deep) was either drilled or formed in the HE filler at the nose of the projectile. A cavity liner, to preclude dusting of HE during transportation and handling, was seated in the cavity and expanded into the lower projectile fuze threads. A supplementary charge was placed in the fuze cavity of projectiles having deep cavities. Projectiles with shallow cavities or deep cavities containing a supplementary charge used only short intrusion fuzes, PD, or MT. Those with deep cavities accepted the long intrusion proximity fuze. The cartridge case contained a percussion assembly and seven individually bagged and numbered propelling charge increments. The base of the cartridge case was drilled and the primer assembly was pressed into the base. The percussion primer assembly consisted of a percussion ignition element and a perforated flash tube containing 100 grains of black powder. The propellant bags contained 2.83 pounds of flashless powder and were tied together with acrylic cord and assembled into the cartridge case around the primer flash tube. The complete 105mm HE projectile was approximately 28.6 inches long with an approximate weight of 39.92 pounds. Maximum projectile range was 12,590 yds (approximately 7

## FIGURE 1.9 105 MILLIMETER ILLUMINATION PROJECTILE OOU6 OE ENGINEERING DESIGN



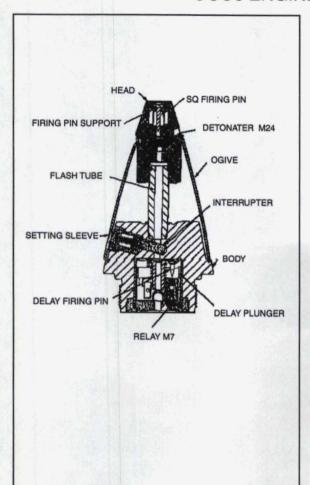
CROSS SECTION VIEW OF PROJECTILE

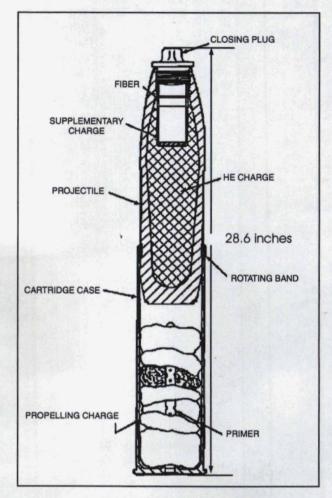


105 mm Illumination Projectile Recovered From Grid 66

PARSONS ENGINEERING SCIENCE, INC.

## FIGURE 1.10 -105 MILLIMETER HIGH EXPLOSIVE PROJECTILE OOU6 ENGINEERING DESIGN





CROSS SECTION OF FUZE BODY

CROSS SECTION VIEW OF PROJECTILE



105 mm High Explosive Projectile Recovered From Grid 131

J:\730414\CROFT\0697

PARSONS ENGINEERING SCIENCE, INC.

miles) with a maximum muzzle velocity of 1,621 feet per second. For recognition purposes, the 105mm HE projectiles were painted olive drab with yellow bands/stenciling or yellow with black bands/stenciling. The stenciling indicated the type of round. Figure 1-10 is a photograph of a 105mm HE projectile recovered from OOU6 and a cross section view of a typical projectile.

#### 1.7 SOURCE, NATURE, AND EXTENT OF CONTAMINATION

#### 1.7.1 Introduction

This section provides an overview of the results of the geophysical and intrusive investigations performed at the former CCATF OOU6. This discussion presents the results of the investigations of the areas/sectors previously identified at the site: the Roads and Site Operations Building, the Pine Farm, the Landfill and Composting Areas, the Pond Area, the Wetlands/Streams, the Natural and Brush/Forest Areas, and EE/CA Grid 87. On the basis of the designated sectors at OOU6, the results of the geophysical and intrusive investigations are depicted in Figure 1-11. A summary of the results of these field investigations is presented in Table 1.5. A list of potentially hazardous OE items, and the sector(s) where they were discovered, are provided in Table 1.6. Recovery depth and distribution of potentially hazardous OE items are presented in Table 1.7. Table 1.8 provides a summary of all OE contamination at OOU6.

#### 1.7.2 OE Contamination of the Roads and Site Operations Building Area

The Roads and Site Operations Building Area is comprised of approximately 1.84 A geophysical survey was not conducted in this area during the OE Investigation/Engineering Design. This sector is located primarily from Landfill 1 northwest to Lake Mimosa Road and was cleared as part of the 1994/1995 TCRA investigation. The scalehouse, parking area, and truck scales are all included within this area. TCRA results indicated one HE 105mm projectile was recovered near the road in this area. The approximately 5.31 acres of onsite access roads that were not cleared during the TCRA were reportedly cleared by a representative of the property owner at a later date. However, there was no documentation of this activity. Some of these access roadways are regularly used by large trucks delivering construction debris to the landfill. Because of heavy use, the roads are maintained by regrading and adding of course construction materials (for example, asphalt debris, concrete rubble, and porcelain fragments) for better traction and control of erosion. The layers of construction debris used in building the roads may prevent exposure to potential OE items, if present. Since these roadways have not been officially cleared, they will be considered as part of the sector in which they reside (for example, the Pine Farm and the Natural Brush/Forest) can be applicable to evaluating the potential exposure for this area.

#### **1.7.3 Pine Farm**

1.7.3.1 The Pine Farm Area is approximately 38.94 acres. A total of 43 sampling grids (each 50 by 50 ft in dimension) were established within this area. Approximately 6.3% (2.47 acres) of the Pine Farm was geophysically and intrusively investigated. Prior to commencement of the geophysical investigation, extensive brush cutting activities

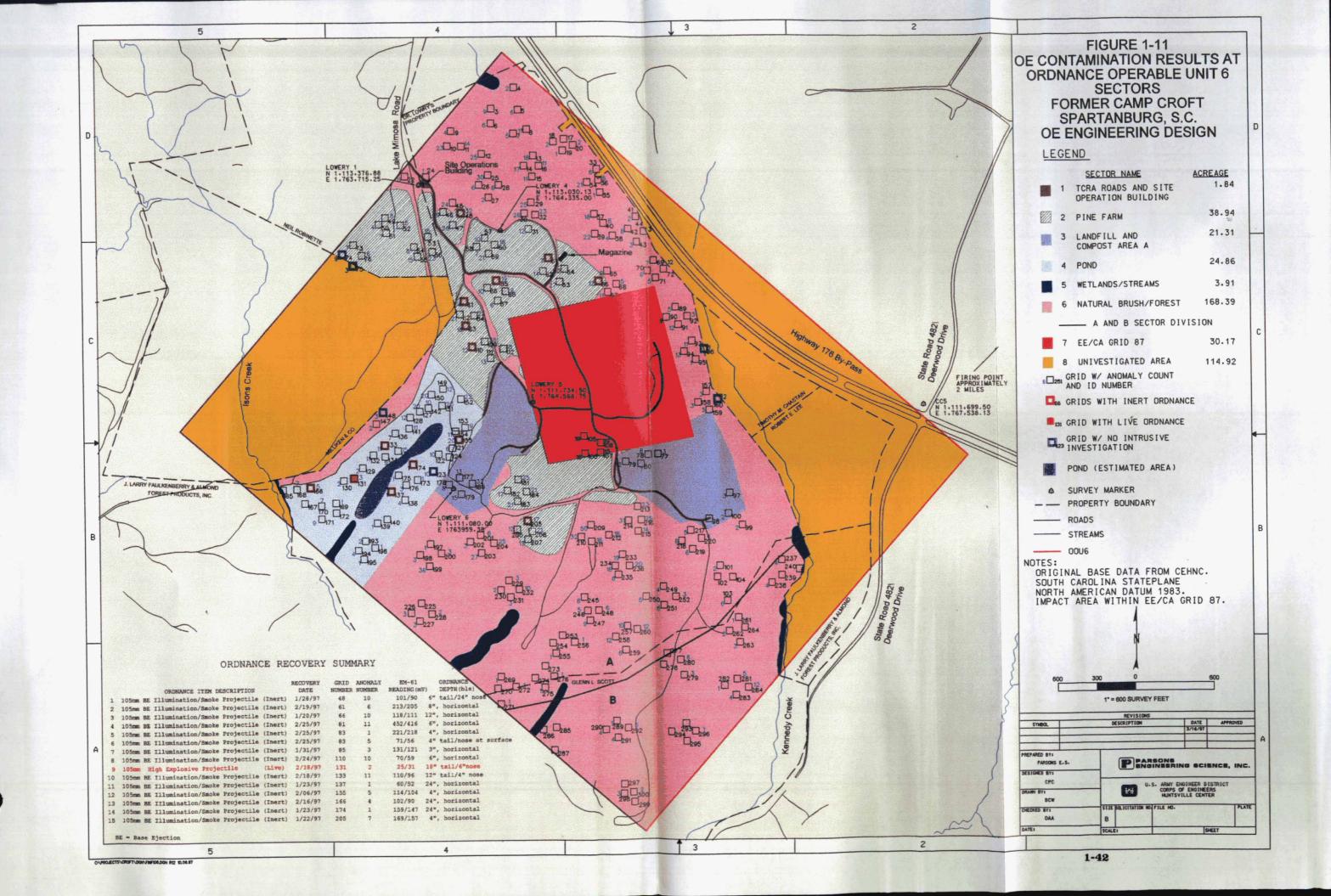


TABLE 1.6
CCATF OOU6 OE INVESTIGATION/ENGINEERING DESIGN
LIST OF POTENTIALLY HAZARDOUS OE ITEMS\*

| <del></del> - | ITEM   | GRID | GIS        | Coord       | dinates     | ANOMALY | DATE OF                   | DEPTH                   | · · · · · · | EM-61 Reading       |
|---------------|--------|------|------------|-------------|-------------|---------|---------------------------|-------------------------|-------------|---------------------|
| SECTOR(1)     | ID     | ID   | D          | Northing    | Easting     | #       | DEMOLITION                | FOUND                   | WEIGHT      | (mV) <sup>(2)</sup> |
| 2             | 105 BE | 48   | 9904801001 | 1113144' 3" | 1764026' 7" | 10      | 2/27/97                   | 6" tail/24" nose        | 25 lbs.     | 101/90              |
| 2             | 105 BE | 61   | 9906100602 | 1112838' 3" | 1764696' 3" | 6       | 2 <i>/</i> 27 <i>/</i> 97 | 8", horizontal          | 25 lbs.     | 213/205             |
| 2             | 105 BE | 66   | 9906601001 | 1112622'    | 1765070'    | 10      | 2/27/97                   | 12", horizontal         | 25 lbs.     | 118/111             |
| 2             | 105 BE | 81   | 9908101101 | 1112493' 8" | 1764043' 4" | 11      | 2/27/97                   | 6", horizontal          | 25 lbs.     | 452/416             |
| 2             | 105 BE | 83   | 9908300101 | 1112319'    | 1764039'    | 1       | 2 <i>1</i> 27/97          | 4", horizontal          | 25 lbs.     | 221/218             |
| 2             | 105 BE | 83   | 9908300502 | 1112338'    | 1764055'    | 5       | 2/27/97                   | 4" tail/nose at surface | 25 lbs.     | 71/56               |
| 2             | 105 BE | 85   | 9908500302 | 1112647' 8" | 1764286' 1" | 3       | 2/27/97                   | 3", horizontal          | 25 lbs.     | 131/121             |
| 2             | 105 BE | 110  | 9911001002 | 1112172' 6" | 1764098' 3" | 10      | 2 <i>1</i> 27/97          | 6", horizontal          | 25 lbs.     | 70/59               |
| 4             | 105 BE | 131  | 9913100201 | 1111156' 5" | 1763196' 5" | 2       | 2/18/97                   | 18" tail/6" nose        | 25 lbs.     | 25/31               |
| 4             | 105 BE | 133  | 9913301101 | 1111426' 2" | 1763464'    | 11      | 2/27/97                   | 24", horizontal         | 25 lbs.     | 110/96              |
| 4             | 105 BE | 137  | 9913700101 | 1111079'6"  | 1763469' 8" | 1       | 2 <i>1</i> 27 <i>1</i> 97 | 24", horizontal         | 25 lbs.     | 60/52               |
| 4             | 105 BE | 155  | 9915500302 | 1111452'    | 1763964' 10 | 3       | 2 <i>1</i> 27 <i>1</i> 97 | 4", horizontal          | 25 lbs.     | 114/104             |
| 4             | 105 BE | 166  | 9916600401 | 1111076'    | 1762895' 3" | 4       | 2 <i>1</i> 27/97          | 24", horizontal         | 25 lbs.     | 102/90              |
| 4             | 105 BE | 174  | 9917400101 | 1111260'    | 1763634' 6" | 1       | 2/27/97                   | 24", horizontal         | 25 lbs.     | 159/147             |
| 2             | 105 BE | 205  | 9920500701 | 1110846' 10 | 1764519' 2" | 7       | 2/27/97                   | 4", horizontal          | 25 lbs.     | 169/157             |
|               |        |      |            |             |             |         |                           |                         |             |                     |

<sup>\*</sup> Sorted by sector, ordnance items, and depth.

105BE = 105mm illumination/smoke projectile with mechanical timer (inert)

<sup>105</sup>HE = 105mm High Exposive projectile with point detonating fuze (live)

<sup>(1)</sup> Sector 2 - Pine Farm; Sector 4 - Pond

<sup>(2)</sup> EM-61 readings unit is millivolt (mV) and the data is read from the instrument for the upper and the lower coils.

### TABLE 1.7 CCATF OOU6 OE INVESTIGATION/ENGINEERING DESIGN RECOVERY DEPTHS OF POTENTIALLY HAZARDOUS OE ITEMS

| EFERENCE<br>DEPTH | ROADS AND<br>SITE OPS.<br>BUILDING | PINE FARM | LANDFILL AND<br>COMPOST A<br>AREAS | POND<br>AREA | WETLANDS<br>AND STREAMS | NATURAL<br>BRUSH/FOREST | EE/CA<br>GRID 87 | UNINVESTIGATED AREA | TOTAL | .%   |
|-------------------|------------------------------------|-----------|------------------------------------|--------------|-------------------------|-------------------------|------------------|---------------------|-------|------|
| 0"                | 0                                  | 1         | 0                                  | 0            | 0                       | 0                       | 0                | 0                   | 1     | 7%   |
| >0-12*            | 0                                  | 8         | 0                                  | 3*           | 0                       | 0                       | 0                | 0                   | 11    | 73%  |
| >1 <u>2-24"</u>   | 0                                  | 0         | 0                                  | 3            | 0                       | 0                       | 0                | 0                   | 3     | 20%  |
| >24-36"           | 0                                  | 0         | 0                                  | 0            | 0                       | 0                       | 0                | 0                   | 0 _   | 0%   |
| >36-4 <u>8"</u>   | 0                                  | 0         | 0                                  | 0            | 0                       | 0                       | 0                | 0                   | 0     | 0%   |
| > 48"             | 0                                  | 0         | 0                                  | 0            | 0                       | 0                       | 0                | 0                   | 0     | 0%   |
| TOTAL _           | 0                                  | 9         | 0                                  | 6            | 0                       | 0                       | 00               | o                   | 15    | 100% |

<sup>\*</sup> Single live 105mm HE projectile from Grid 131 included in total from this depth.

Table 1.8
Summary of OE/UXO Investigations at OOU6

| Type of<br>Investigation                | Date              | Investigation<br>Grids/Area/<br>Sectors                           | OE/UXO Findings  |
|---|-------------------|---|--|
| TCRA (1)                                | 1994              | Landfill 1  | 60mm HE mortar (2)<br>*155mm Burster tube (1)                                    |
| į                                       |                   | Landfill 2  | None   |
| 1                                       |                   | Proposed Phase III & IV Area                                      | None   |
|   |                   | Access Roads  | Live 105mm projectile (1)  |
| EE/CA <sup>(2)</sup>                    | 1995/1996         | 61 (Compost B)  | None   |
|   |                   | 62 (Poppy Field)  | None   |
|   |                   | 87  | 105mm Smoke Canisters (9)<br>60mm (4)<br>81mm (7)<br>Mortar parts, UXO fragments |
|   |                   | 88 (Landfill 2)   | UXO fragments  |
| OE                                      | 1996/1997         | Roads & Operation Bldg  | None   |
| Engineering<br>Design <sup>(3)</sup>    |                   | Pine Farm   | 105mm inert illumination<br>/smoke projectiles (9)                               |
|   |                   | Landfills 1 & 2 and Compost A                                     | UXO fragments  |
|   |                   | Pond  | 105mm HE projectile (1)<br>105mm inert projectiles (5)                           |
|   |                   | Natural Brush/Forest  | UXOfragments   |
| Sighting by<br>Dr. Lowry                | 1994 -<br>to date | Red Hill (Grid 87 area)   | Several OE items (reportedly,<br>105mm projectiles and UXO<br>fragments)         |
| Sheriff's<br>Department<br>and 48th EOD | 1997              | OE items discovery - Post<br>Engineering Design Clearance<br>Work | (4)  |

(1) Source: TCRA Report, HFA, 1994

(2) Source: EE/CA Report, ESE, 1996

(3) Source: This OE Engineering Design Report

(4) Details on OE items not available at time of publication of this report.

<sup>\*</sup> The burster tube consists of a seamless steel tubing with an OD of approximately 1 inch and it encloses the burster charge. The purpose of the burster is to burst the shell wall and disperse the filter of the shell upon detonation of the point detonating fuze.

were conducted to enable use of the EM-61 survey equipment. The geophysical survey of the grids identified a total of 663 anomalies. More anomalies were detected in the Pine Farm than any other areas within OOU6 (except the Pond Area). On average, approximately 15 anomalies were detected per grid in this area versus the sitewide average of 9.0 anomalies per grid. This is explained by the proximity of the former impact area (see Figure 1-11) to the Pine Farm and the high concentration of OE fragments (versus non-OE metal scrap) recovered from these anomalies.

- 1.7.3.2 The weight of OE-related fragments recovered (approximately 331 pounds) from the Pine Farm accounts for more than 1/3 of the total weight of OE-related fragments (approximately 979 pounds) recovered sitewide while encompassing only 14.6% of the total OOU6 investigated acreage. Nine of the 14 inert 105mm ordnance items were recovered from the Pine Farm. No high explosive (HE) OE items were found in this area (Tables 1.4, 1.6, and 1.7).
- 1.7.3.3 Of the 663 anomalies detected, 62 "false positives", or approximately 9.3%, were identified in this area. A "false positive" for the OE Engineering Design is defined as a geophysical anomaly (flagged based on elevated EM-61 readings) for which no "contact" or "source material" could be identified after completing intrusive operation (dig of soil materials to probe for contact while scanning the immediate vicinity of the flagged location using the Foerster Mk26) within a 3-foot radius of the flag and up to 4 feet below land surface. The sitewide "false positive" rate was approximately 14.02%.

#### 1.7.4 OE Contamination of the Landfill and Compost A Areas

The Landfills and Composting Area comprise approximately 21.31 acres of the site.

#### 1.7.4.1 Landfill 1 and Compost A Areas

- 1.7.4.1.1 The Landfill 1 and Compost A Areas portion are approximately one-half of the total sector acreage. The area has been stripped of all vegetation and the topography has been substantially altered as a result of landfill-related operations including ravine filling. In 1994/1995 the TCRA investigation focused on the Landfill 1 and Compost A location which, at the time, was in the proposal stage. The southern 1/3rd of the area scheduled to be cleared during the TCRA was subsequently deleted from the investigation. The cleared area became Landfill 1 and is currently active. Three reportedly live OE items were recovered during the TCRA investigation of this area. Infringement into the uncleared area is occurring as a result of landfill expansion.
- 1.7.4.1.2. A total of 4 sampling grids were established in an area of concern (the portion omitted from the TCRA) within Landfill 1. Minimal brush cutting activities took place within these sampling grids to enable use of the EM-61 equipment. The geophysical survey of the grids identified a total of 68 anomalies. On average, 17 anomalies were detected per grid. This average exceeds the sitewide average of 9.0 anomalies per grid but is consistent with the findings at the Pine Farm. Again, the proximity of the former impact area (see Figure 1-11) to the landfill supports the high concentration of OE fragments recovered from these anomalies. Of the 42 pounds of

ferrous material recovered from Landfill 1, 98% were OE-related fragments. No ordnance items (inert or live) were recovered from Landfill 1.(Table 1.5).

1.7.4.1.3 A total of 2 "false positives", or approximately 2.9%, were identified in Landfill 1. The sitewide "false positive" rate was approximately 14.02%.

#### 1.7.4.2 Proposed Landfill 2

- 1.7.4.2.1 The proposed Landfill 2 comprises approximately one-half of the total acreage of this area. Landfill 2 has remained undeveloped and is vegetated primarily by pine trees. In 1994/1995 the TCRA investigation included the proposed Landfill 2 location. Reportedly only small pieces of OE-related fragments were recovered during the TCRA investigation of this area.
- 1.7.4.2.2 At the request of the Corps of Engineers, a total of 7 sampling grids were established in locations selected to address the property owner's concerns regarding extent of investigation work in this area. Moderate brush cutting activities (consisting primarily of tall grasses and underbrush) were necessary in the sampling grids in this sector to accommodate use of the EM-61 survey equipment. The geophysical survey of the grids identified a total of 35 anomalies. On average, 5 anomalies per grid were detected, an average well below the sitewide average of 9.0 anomalies per grid. This data indicates a decrease in the rate of detection of anomalies with increasing distance from the former impact area (see Figure 1-11). A total of 10.5 pounds (91%) of the 11.5 pounds of ferrous material recovered from this portion of Sector 3 were OE-related fragments. No ordnance items (inert or live) were recovered from this portion of Sector 3 (Table 1.5).
- 1.7.4.2.3 A total of 2 "false positives", or approximately 5.7%, were identified at Landfill 2. The sitewide "false positive" rate was approximately 14.02%.

#### 1.7.5 OE Contamination of the Pond Area

- 1.7.5.1 The Pond Area is approximately 24.86 acres. The Pond Area is a low lying area predominantly suited for construction of a pond or a small lake. The area is bordered to the west and east by a gentle slope with occasional topographic highs. Currently, the property owner has embarked on site construction work that involves pronounced grading of the slopes bordering the intended location of the onsite pond. The property owner has removed most of the vegetation and small trees in the area leaving only large sporadic hardwoods. Ordnance clearing in the area has been limited to undocumented clearing by a representative of the property owner prior to heavy equipment operations. This area was not investigated during the 1994/1995 TCRA or the 1995/1996 EE/CA investigation.
- 1.7.5.2 On the basis of the on-going pond construction activities witnessed at this portion of OOU6 during the OE Engineering Design field work, CEHNC requested an increase in the sampling grids proposed for this area. A total of forty-three sampling grids were established. Minimal brush clearing activities were performed to accommodate use of the EM-61 survey equipment.

grids were established. Minimal brush clearing activities were performed to accommodate use of the EM-61 survey equipment.

- 1.7.5.3 The geophysical survey of the grids identified a total of 312 anomalies. On average, 7 anomalies were detected per grid, an average that is below the sitewide average of 9.0 anomalies per grid. This data indicates a decrease in the rate of detection of anomalies with increasing distance from the former impact area (see Figure 1-11). Five of the 14 inert 105mm ordnance items recovered from OOU6 were recovered from this area (Table 1.5). In addition, one 105mm HE projectile was recovered from grid 131, located in this area. However, only 70 pounds (43%) of the 162 pounds of ferrous material recovered from the sampling grids in this area were OE-related fragments. The majority of the recovered metal debris consisted of horseshoes, plow blades, an empty drum, and miscellaneous scrap.
- 1.7.5.4 A total of 41 "false positives", or approximately 13.14%, were identified. The sitewide "false positive" rate was approximately 14.02%. Since the soil at the site are schistotic and appear rich in iron content, it is very likely that these soil attributes contributed to the false positive rate.

#### 1.7.6 OE Contamination of the Wetlands/Streams Area

The Wetlands/Streams Area is approximately 3.91 acres. The sector is undeveloped and consists of steep ravines with both perennial and intermittent streams. Ordnance clearing has not been performed in the area and previous investigations (1994/1995 TCRA or the 1995/1996 EE/CA investigations) did not include any portion of the wetlands/streams area. CEHNC directed that this area be excluded from the OE Engineering Design due to regulatory restrictions on wetlands.

#### 1.7.7 OE Contamination of the Natural Brush/Forest Area

- 1.7.7.1 The Natural Brush/Forest Area is the largest total acreage sector at OOU6 and consists of approximately 169.05 acres. This area is comprised of sparsely forested mature hardwood with moderately thick underbrush and occasional clearings. The presence of numerous tree stumps indicates the sector has undergone timber harvests in the past. Little to no development/alteration of this area has occurred. Ordnance clearing has not been performed in this area and the area was not investigated during the 1994/1995 TCRA or the 1995/1996 EE/CA investigation. Future Compost B is planned in this sector.
- 1.7.7.2 The geophysical survey of OOU6 was conducted sitewide (not by sectors) between January 7 and February 7, 1997. A total of 150 sampling grids were established in the approximate locations (depending on location-specific conditions) randomly selected in this area and identified in the project Work Plan. Moderate brush cutting activities were necessary to prepare the sampling grids in this sector to accommodate the EM-61 survey team(s) and equipment. The geophysical survey of the grids identified a total of 1,145 anomalies. On average, 8 anomalies per grid was detected. This average is below the sitewide average of 9 anomalies per grid. The decrease in number of anomalies detected is believed to be related to the increasing distance from the former impact area (see Figure 1-11). As a general observation, no anomalies were identified in

- 22 of the 150 sampling grids in this area. No ordnance items were recovered (see Table 1.5). However, of the approximately 502 pounds of the ferrous material recovered 411 pounds (82%) were OE-related fragments. The majority of the recovered non-OE ferrous debris consisted of horseshoes, plow blades, barbed wire, and miscellaneous scrap.
- 1.7.7.3 A total of 214 "false positives", approximately 18.7% of the anomalies detected in this area, were identified. Veins of magnetic rock and metallic soil layers were identified in the southern portion of this sector and may be responsible for the increase in the "false positive" rate. The sitewide "false positive" rate was approximately 14.02%. The number of false positives from this area is factored into the average sitewide estimate.

#### 1.7.8 OE Contamination of the EE/CA Grid 87 Area

- 1.7.8.1 The EE/CA Grid 87 Area is approximately 30.17 acres. The area is undeveloped and comprises a large portion of the former impact area. This sector was included as part of the area investigated during the 1995/1996 EE/CA investigation. The EE/CA Report indicated there was significant OE/UXO contamination in Grid 87. An OE/Cert analysis of the data collected from this area was performed and reported in the EE/CA report.
- 1.7.8.2. At the request of CEHNC, a total of 4 sampling grids (each 50 by 50 ft in dimension) were established to investigate an area reported to have been inadvertently omitted during the EE/CA field investigation. Moderate to heavy brush cutting activities were necessary to enable use of EM-61 equipment in this area. The geophysical survey of the grids identified a total of 69 anomalies. On average, approximately 17 anomalies per grid were detected versus the sitewide average of 9 anomalies per grid. This data show a higher concentration of anomalies in this area than other portions of OOU6. This data supports the projection that this area lies predominantly in the impact zone (see Figure 1-11). All of the 24.2 pounds of material recovered from the area investigated within EE/CA Grid 87 were OE-related fragments. However, no ordnance items (inert or live) were recovered (Table 1.5).
- 1.7.8.3 A total of 3 "false positives", or approximately 4.3%, were identified. The sitewide "false positive" rate was approximately 14.02%. The data acquired for this area was intended for confirmation purposes and to determine if any effect to previous findings (1996 EE/CA effort). On the basis of the additional data presented, there is no impact to previous results and recommendation, therefore, further evaluation or analysis of the data gathered at EE/CA Grid 87 during this OE Engineering Design field work is not warranted.

#### 1.7.9 OE Contamination of the Uninvestigated Area

The Uninvestigated Area is approximately 114.92 acres of land within OOU6 for which access was not granted to the investigation teams by the property owners. The western portion of this area consists of property owned by Milliken and Company. The eastern portion consists of parcels owned by several property owners. The

uninvestigated area is almost entirely undeveloped and covers property the furthest from the former impact area but still within OOU6. No ordnance clearing has been performed within this area and the area was not investigated during the 1994/1995 TCRA or the 1995/1996 EE/CA investigations.

#### 1.7.10 Conclusion

The following conclusions are drawn from the site characterization effort prior to performing the risk assessment on the site characterization data. The risk evaluation process will provide an assessment of the overall danger posed to public safety at each of the sectors at OOU6.

- Roads and Site Operation Building. The Roads and Site Operation Building Area were cleared during the 1994/1995 TCRA effort. Currently, there are no known plan(s) for future intrusive activities in this area.
- Pine Farm. No live OE items were recovered in the geophysical investigation grids within the Pine Farm, but potentially hazardous OE items were recovered. Therefore, a potential for OE exposure in this sector exists.
- Landfill and Compost A Areas and Natural Brush/Forest. In summary, no potentially hazardous OE items or any OE-related items (other than small fragments) were found in the investigated portions of the Landfill and Compost A Areas and the Natural Brush/Forest Area and thus OE contamination of these areas is not expected to pose a significant safety threat.
- Pond Area. The primary area of concern is the Pond Area in which a considerable amount of ongoing intrusive work associated with pond construction is underway. The single live OE item (105mm HE) was found in this area as well as a number of inert ordnance items. Therefore, a high potential for the presence of potentially hazardous OE items exists for the Pond Area.
- Wetlands. Based on Corps of Engineers request, the Wetlands/Streams Area was not investigated due to regulatory restrictions and there are no current or known future plans for intrusive activities in this area.
- EE/CA Grid 87. Although minimal field investigations were conducted in EE/CA Grid 87, existing data show a high potential for the presence of potentially hazardous OE items here.
- Uninvestigated Area. The Uninvestigated Area remains to be probed for OE contamination. Currently, there is no adequate information to evaluate the potential hazard of encountering OE items, if any, in this area.

#### 1.8 RISK EVALUATION SUMMARY

#### 1.8.1 Introduction

1.8.1.1 This streamlined risk assessment has been divided into two separate evaluations. The first evaluation is a qualitative one which provides an assessment of the overall danger posed to public safety in the absence of any removal action being conducted at the site. The risks evaluated in this assessment are those posed by potentially hazardous OE items found in sectors previously defined for the site: the Roads and Site Operations Building, the Pine Farm, the Landfill and Compost A Areas, the Pond Area, and the Natural Brush/Forest. For the purpose of this analysis, a potentially hazardous OE item is defined as one of the 15 OE items that had to be destroyed onsite

during the intrusive investigation of which one item was classified as UXO. These items were demilitarized by the UXO clearance crews either because the OE item may have potentially contained a live fuze or the OE item contained HE. These 15 OE items represent only a fraction of the total weight of OE-related items found on the site during the intrusive investigation; however, most of the OE items found were fragments or fuze bodies determined to be inert and did not pose a safety hazard. The safety risk posed by the potentially hazardous OE items is a function of the probability of an explosive event occurring and the risk posed to public safety as a result of such an event occurring. In performing this risk evaluation, the objective is to determine the need for performing a removal action in any of the sectors. Consequently, each of the sectors will be analyzed separately due to the differences in land use and the differing results of the intrusive investigations within each of the sectors.

- The second evaluation is a quantitative approach which provides an estimation of the amount of risk found at the site in its current condition as a function of the number of public exposures to potentially hazardous OE items as well as the risk reduction achieved after the implementation of various removal actions. methodology used to determine this risk has been developed by CEHNC and is called the Ordnance and Explosives Cost-Effectiveness Risk Tool (OECert). Two of the primary inputs into OECert are the homogeneous sectoring of the site and the estimated ordnance density of the areas under analysis. To this end, the five sectors of the CCATF OOU6 site identified and used up to this point - the Roads and Site Operations Building, the Pine Farm, the Landfill and Composting Areas, the Pond Area, and the Natural Brush/Forest - have been examined and will be used in the OECert analysis to estimate the residual risk posed by OE items after the implementation of various removal The Natural Brush/Forest sector will be subdivided into Natural alternatives. Brush/Forest A and Natural Brush/Forest B. Natural Brush/Forest B will include the portion of the sector for which minimal OE-related scrap was found during sampling (Figure 1-11).
- 1.8.1.3 Assumptions must be made to adequately define the risks at each of the five sectors at the former CCATF OOU6. These assumptions are applicable to all of the sectors of the site. The first issue to address is the likelihood of exposure to OE. To assess the potential risk of exposure associated with OE, potential exposure pathways must be analyzed. In the case of OE, there is only one potential pathway to exposure, direct contact. If there is a likelihood of exposure, the probability that an exposure will result in a hazard is of paramount importance. Therefore, the potential hazard associated with direct contact must be determined. In order to ensure the public's safety, an assumption must be made that all exposure through direct contact to OE has a strong possibility of resulting in a mishap/detonation if the ordnance item is fuzed or if there is HE remaining in the OE item. Consequently, if potentially hazardous OE items exist at the site where exposure by direct contact is possible, a safety hazard exists. A more detailed discussion of the risk of exposure to OE within the five sectors is presented in the following sections.

### 1.8.2 Site Specific OE Hazards - A Qualitative Overview

### 1.8.2.1 OE Risk at the Roads and Site Operations Building Area

As outlined in Section 1.8.1, the OE risk at each of the sectors within OOU6 of the former CCATF can be quite different due to the distribution of the OE items found at the site as well as the current use of the sector. Field investigations were not conducted within the Roads and Site Operations Building Area during the OE Engineering Design because this area was cleared of OE during the TCRA investigation. The site roads not investigated during the TCRA are considered to be part of the sectors within which they reside.

#### 1.8.2.2 OE Risk at the Pine Farm

- 1.8.2.2.1 The Pine Farm Area of OOU6 is a sector which is only moderately used recreationally by invited hunters/hikers. The pine would at some point in the future be harvested. Based on the historical record, the central portion of the Pine Farm Area abuts the periphery of the former target impact zone and therefore, may contain OE items.
- 1.8.2.2.2 The Pine Farm Area accounts for 11.3% of the total OOU6 acreage. The area is comprised of closely spaced young pines and its cover supports a variety of animals (for example white tail deer and wild turkey) seasonally hunted at the site. The geophysical investigation of this area covered 6.3% of this sector. This survey identified over 663 anomalies and 9 potentially hazardous OE items (105mm projectiles) were recovered and destroyed on-site. In addition, another 331 pounds of OE item fragments were also recovered during the intrusive investigation. Further details regarding the Pine Farm Area are presented in Section 1.7.3. Therefore, a public safety hazard exists within the sector because of the potential for OE items to be present.

#### 1.8.2.3 OE Risk at the Landfill and Compost A Areas

The Landfill and Compost A Areas of OOU6 is a predominantly developed sector in support of active landfill operations. Much of the tree cover has been removed and intrusive activity is a common practice to accommodate fill areas for burial of landfill materials. Based on the historical record, this sector abuts the periphery of the former target impact zone and is anticipated to contain OE items. However, the vast majority of this sector was cleared of OE during the TCRA. In addition, no potentially hazardous OE items were recovered during the OE Engineering Design field investigation. Therefore, there does not appear to be a significant OE hazard to public safety as a result of past DoD activities in this sector.

#### 1.8.2.4 OE Risk at the Pond Area

1.8.2.4.1 The Pond Area of OOU6 is currently undergoing significant development. In addition to the current moderate use for hunting, future heavy recreational use is likely. Based on the historical record, the Pond Area is located west of the former target impact zone in an area suspected to be positioned to receive ordnance overshoots. Therefore, this sector may contain OE items. Six of the fifteen OE items (105mm projectiles)

recovered during the OE Engineering Design field investigation (including the live ordnance item) came from this sector (see Figure 1-11).

1.8.2.4.2 The Pond Area accounts for 7.4% of the total OOU6 acreage. The area is undergoing extensive grading to accommodate a large pond. The geophysical investigation of this area covered 9.7% of this sector. This survey identified over 312 anomalies and 6 potentially hazardous OE items were recovered and destroyed on-site. In addition, 70 pounds of OE item fragments were also recovered during the intrusive investigation. Further details regarding Sector 4 are presented in Section 1.7.5. Therefore, a public safety hazard exists within the sector as a result of the potential that remains for OE items to be present.

#### 1.8.2.5 OE Risk at the Wetlands/Streams

The Wetlands/Streams Area is undeveloped and is only used occasionally for recreational purposes by invited hunters/hikers. The wetlands/streams comprising this sector occur specifically in low topographical relief areas. As directed by CEHNC, field investigations were not conducted within the Wetlands/Streams Area due to regulatory concerns and the potential to disturb the wet areas or wetlands. Based on the historical record, none of the five locations identified as potential wetlands/streams are located in the proximity of the former target impact zone. Therefore, the presence of OE items is unlikely. On the basis of this assumption and because of the unlikelihood of future intrusive activity in this sector, an OE hazard to public safety as a result of past DoD activities in this sector is not known. Of concern is the potential that OE items may wash down the hill from grid 87 into the streams and/or wetlands. No studies have been performed to confirm if this has happened.

#### 1.8.2.6 OE Risk at the Natural Brush/Forest Area

- 1.8.2.6.1 The Natural Brush/Forest Area of OOU6 is a predominantly undeveloped sector which is only moderately used recreationally by invited hunters/hikers. Based on the historical record, only a small percentage of the Natural Brush/Forest Area is within 300 feet of the periphery of the former target impact zone or suspected overshoot area. Therefore, this sector may contain a minimal number of OE items.
- 1.8.2.6.2 The Natural Brush/Forest Area accounts for 49.4% of the total OOU6 acreage. The area is undeveloped and is comprised of old growth hardwoods. Recreational hunting is frequently conducted within this sector. The geophysical investigation of this area covered 5.1% of this sector. This survey identified over 1145 anomalies but no potentially hazardous OE items were recovered. In addition, another 502 pounds of OE item fragments were recovered during the intrusive investigation. It was noted that OE contamination was not uniform throughout the sector. Thus the sector was divided into two subsectors as depicted on Figure 1-11. On the basis of the site characterization data a public safety hazard appears to exist within the Natural Brush/Forest A because of the strong potential for OE items to be present. A public safety hazard does not exist for the Natural Brush/Forest B because the potential for presence of OE items is extremely low or non-existent.

#### 1.8.2.7 OE Risk at the EE/CA Grid 87

The EE/CA Grid 87 Area of OOU6 is predominantly undeveloped. The Pine Farm extends partly into this sector. This sector was previously investigated during the 1995/1996 EE/CA of OOU6. The result of the risk evaluation indicated a public safety hazard in this area. Because the risk assessment for this sector has been performed in the EE/CA document a further investigation of this sector is not warranted under the Engineering Design.

### 1.8.3 Site Specific OE Baseline Exposure Risk (OECERT)

#### 1.8.3.1 Introduction

- 1.8.3.1.1 The OECert methodology is designed to prioritize the removal efforts for a set of OE-contaminated sites and to determine a quantitative risk of public and individual exposure to OE at each site. The prioritization is based on a cost-effectiveness measure, defined as the maximum risk reduction achieved for each dollar spent on the removal effort. The public exposures to OE used in OECert result from individuals performing specific activities (both recreational and occupational) within OE contaminated areas. The expected number of surface OE exposures per participant in an area is dependent on the OE density, the proportion of OE on the surface, and the activity participant's exposure area (the area traversed by an individual while performing an activity). The expected number of subsurface OE exposures per participant in a sector is dependent on the OE density, the proportion of OE beneath the surface of the ground, the density distribution of the subsurface OE, and the area associated with an activity performed in a sector.
- 1.8.3.1.2 The calculation of the total expected number of exposures to OE at a site follows a step-by-step process. First, for each sector, the expected number of exposures for a single individual participating in a specific activity is calculated. Second, the number of individuals that are expected to participate annually in that activity on the site is determined based on the demographics surrounding the site and the activity participation. The two values are combined to give the total annual number of exposures expected to occur for participants in the identified activity. These calculations are performed for each activity that has been determined to be performed at the site. The values for the expected number of exposures resulting from participation in each activity are then added together to yield the overall risk value for the site.
- 1.8.3.1.3 The number of potentially hazardous OE exposures was calculated based on the location and depth of the 14 potentially hazardous OE items and 1 hazardous UXO item found at the site during the intrusive investigation. The results of this analysis are identified as the "Sampled Density Estimate.

#### 1.8.3.2 OECert Results

1.8.3.2.1 Table 1.9 shows the OE density estimates for the various sectors of OOU6 for the Sampled Density Estimate. These density estimates were derived as noted above. The total anomaly count, intrusive area investigated, specific OE item location and depth, and additional sector characteristics were key elements in the estimation of OE density and area/sector definition. The sampled density estimate identifies the extrapolated results of

the field sampling for each of the sectors defined for the site. The OE items on the surface is reflected in the surface percentage of OE items density as shown in Table 1.9. The estimated number of surface and subsurface OE items for each sector area within OOU6 is shown in Table 1.10.

1.8.3.2.2 The OOU6 parcel of the former CCATF was partitioned into six homogeneous risk sectors.

TABLE 1.9
OE DENSITY ESTIMATES FOR THE FORMER CAMP CROFT
ARMY TRAINING FACILITY - 00U6
(OE PER ACRE)

| Area                            | Sector     | Sampled Density<br>Estimate (per acre) |  |  |
|---------------------------------|------------|--|--|--|
| Roads and Site Operations Bldg. | 1          | 0.00                                   |  |  |
| Pine Farm                       | 2          | 0.154                                  |  |  |
| Landfill and Composting Areas   | 3          | 0.154                                  |  |  |
| Pond Area                       | 4          | 0.154                                  |  |  |
| Natural Brush/Forest A          | 6 <b>A</b> | 0.154                                  |  |  |
| Natural Brush/Forest B          | 6B         | 0.00                                   |  |  |

1.8.3.2.3 Each sector has a specific ordnance density, set of activities, and public participation parameters which were prepared for the risk assessment database. As a result, the Natural Brush/Forest Area was divided between subsectors A/B. This sector was divided out as a result of the vastly different field investigation results within this sector.

TABLE 1.10 OE SURFACE AND SUBSURFACE ESTIMATES (OE PER ACRE)

|                                 |        | <del>,</del>                      |                                      |
|---------------------------------|--------|-----------------------------------|--------------------------------------|
| Area                            | Sector | Surface<br>Sampled OE<br>Estimate | Subsurface<br>Sampled OE<br>Estimate |
| Roads and Site Operations Bldg. | 1      | 0                                 | 0                                    |
| Pine Farm                       | 2      | 1                                 | 5                                    |
| Landfill and Composting Areas   | 3      | 0                                 | 1                                    |
| Pond Area                       | 4      | 3                                 | 1                                    |
| Natural Brush/Forest A          | 6A     | 1                                 | 17                                   |
| Natural Brush/Forest B          | 6B     | 0                                 | 0                                    |

1.8.3.2.4 Table 1.11 identifies the expected annual exposures at OOU6 after various removal action alternatives have been completed for the sampled density estimates. An

expected exposure, as defined by the OECert methodology, is an individual participating in an activity being in the proximity of ordnance, with or without the knowledge of its presence. No exposures are present at the Roads and Site Operations Building sector since a physical barrier to potential OE items exists and future intrusive activity is unlikely. In addition, no exposures are present at the Natural Brush/Forest B sector based on the distance from the former target impact zone and since no OE items were found during the OE Engineering Design.

TABLE 1.11 EXPECTED ANNUAL EXPOSURES (SAMPLED DENSITY ESTIMATES)

| Area                               | Sector | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |   |  |
|------------------------------------|--------|--------------|--------------------|-------------------|-------------------|---|--|
| Roads and Site<br>Operations Bldg. | 1      | 0            | 0                  | 0                 | 0                 |   |  |
| Pine Farm                          | 2      | 4 2          | 2 1                | 1                 | 1                 | 1 |  |
| Landfill and Composting Areas      | 3      | 1            | 1                  | 1                 | 0                 |   |  |
| Pond                               | 4      | 18           | 2                  | 0                 | 0                 |   |  |
| Natural Brush/Forest A             | 6A     | 7            | 4                  | 2                 | 2                 |   |  |
| Natural Brush/Forest B             | 6B     | 0            | 0                  | 0                 | 0                 |   |  |
| SITE TOTAL                         |        | 30           | 9                  | 4                 | 3                 |   |  |

### 1.8.3.3 Conclusions of the OECert Analysis

1.8.3.3.1 The results of the OECert Analysis of the site indicate that the Pond Area poses the greatest threat to public safety of any of the sectors of the site. The annual exposure estimate of 18 under the No Action alternative for this sector is 40% of the total exposures for the entire site based on the sampled density estimate. This level of annual exposures is nearly 2.5 times the amount of the next highest sector on the site which is the Natural Brush/Forest A. Lower numbers of annual exposure to OE were identified for the Pine Farm sector, the Landfill and Composting Areas, and the Natural Brush/Forest B. No exposures were identified for the Roads and Site Operations Building and the Natural Brush/Forest A.

1.8.3.3.2 In examining potential removal alternatives for the sectors of OOU6 at CCATF, three follow-on removal actions were examined: a one-time surface removal; OE removal to a depth of one foot; and OE removal to a depth of four feet within each of the sectors. These anticipated exposure reduction factors have been generated based on the depth of recovery of the OE items found during the OE Engineering Design as well as taking into account the sweep efficiency of current OE removal technology. Within the sampled density estimate, the results of the OECert analysis indicate that a one-time surface removal will reduce the number of annual exposures by about 70% across the entire site with an 89% reduction in the Pond Area. A 50% reduction in exposures was estimated for the Pine Farm sector, while a 43% reduction in exposures was seen for the

Natural Brush/Forest A subsector. For the one-foot removal alternative, an 87% reduction was seen in the number of exposures for the overall site. A 100% reduction in exposures was estimated for the Pond Area sector, while a 71% reduction in exposures was seen for the Natural Brush/Forest A subsector. With the exception of the Landfill and Composting Areas sector, no significant reduction in the number of annual exposures was seen for a four-foot removal alternative scenario over what was estimated for the one-foot removal alternative.

### 1.8.4 Summary

Based on the results of this streamlined risk evaluation, the following conclusions can be made. The sample density estimates reflect existing conditions of the area based on the found OE density and depth distribution from the OE Engineering Design field sampling. Using the sampled density estimate, the highest risk of exposure to OE and the resulting safety hazard exists in the Pond Area sector of the site. A more limited risk of exposure to OE exists at the Pine Farm sector, the Landfill and Composting Areas sector, and the Natural Brush/Forest A sector. Table 1.11 shows the expected annual exposures for a "no OE removal action" scenario for each of the analysis areas given the sampled density estimate for ordnance.

## SECTION 2 IDENTIFICATION AND ANALYSIS OF REMOVAL ACTION OBJECTIVES AND ALTERNATIVES

#### 2.1 STATUTORY LIMITS ON REMOVAL ACTIONS

Statutory limits exist for responding to releases under Section 104 of CERCLA. These limits set a \$2 million ceiling on Superfund-financed removal actions and a twelve-month time limit on implementing those removal actions. However, these limits do not apply to removal actions authorized under CERCLA Section 104(b) that are not financed by Superfund. As a result, the removal actions examined for sectors within OOU6 of the former CCATF in this OE Engineering Design do not have any statutory fiscal or timeframe limitations set by CERCLA. However, there are funding limitations for the project based on the budget available in the DERP and on the large number of OE-contaminated sites located throughout the country that must compete for these funds based on a "worst-first" funding criteria.

#### 2.2 REMOVAL ACTION OBJECTIVES

- 2.2.1 The goal of this non-time-critical removal action is to reduce the explosive threat posed by OE items that potentially remain within the OOU6 tract of the former CCATF. This goal will be achieved by minimizing the public's exposure to these potential OE items. This goal corresponds to Section 300.415 (b)(2)(vi) of the NCP which identifies the "threat of fire or explosion" as a factor to be considered in determining the appropriateness of a removal action.
- 2.2.2 A number of factors must be considered when establishing specific objectives for a removal action. The objectives must be able to meet the requirements set forth in the ARARs, while still being realistic and achievable in terms of cost. To attain the goal of reducing the explosive threat posed by the potential for OE items remaining within OOU6 of the former CCATF, the objectives identified must be effective, implementable, and economical. The criteria of effectiveness, implementability and cost will be used to evaluate the potential removal actions for the site in accordance with the protocols established in USEPA's Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA (August 1993).
- 2.2.3 The objectives established for this removal action will guide the development of alternatives for each sector within OOU6 and focus the comparison of acceptable removal action alternatives, if warranted. These objectives will also assist in clarifying the goal of minimizing the explosive risk and achieving an acceptable level of protection to the public and environment. These objectives include:

- Identify the degree and extent of OE contamination by sector;
- Evaluate the effectiveness of various removal alternatives:
- Determine the ability to implement various removal alternatives; and
- Determine the cost to implement the various removal alternatives.

#### 2.3 DESCRIPTION OF OE CLEARANCE TECHNOLOGIES

#### 2.3.1 Introduction

Various technologies and approaches exist for the clearance of OE. An OE clearance operation falls into three distinct areas: detection, recovery, and disposal. A discussion of the techniques used in each of these areas is presented in the following paragraphs.

#### 2.3.2 OE Detection

- 2.3.2.1 The detection of OE includes those methods and instruments that can be used to locate OE. The selection of the best technology depends on the properties of the OE to be located, including whether the ordnance is found on the surface or below the surface, and the characteristics of the location where the OE is located, such as topography, vegetation, and geology.
- 2.3.2.2 Detection technologies have two basic forms. One form, visual searching, has been successfully used on a number of sites where OE is located on the ground surface. When performing a visual search of a site, the area to be searched is divided into five-foot lanes which are then systematically inspected for OE. A metal detector is sometimes used to supplement the visual search in areas where ground vegetation may conceal OE. Typically, any OE found during these searches is flagged or marked on a grid sheet for later removal.
- 2.3.2.3 The other form of OE detection, geophysics, includes a family of detection instruments designed to locate OE. This family of instruments includes magnetic instruments, electromagnetic instruments, and ground penetrating radar. Each piece of equipment has its own inherent advantages and disadvantages based on its operating characteristics, making the selection of the type of geophysical instrument to be used on an OE survey key to its success. Nevertheless, geophysics is the most cost-effective method of conducting OE surveys. The equipment designed for OE geophysical surveys is lightweight, easily maintained, and very effective. However, there are limitations to geophysics. Geophysical equipment cannot usually distinguish OE items from other metallic objects located below the surface. "Cultural interference," such as underground utility lines, construction debris, or metal bearing rock, can deliver a signature to the equipment similar to OE. Therefore, it is necessary for the geophysical survey team to carefully document any known cultural interference while in the survey area. Another limitation to the equipment is that metallic objects have to be much larger when at greater depths so that the geophysical equipment can obtain a reading. For instance, in the case of the EM-31 (an electromagnetic locating instrument), its magnetic field can

extend to a depth of 18 feet. However, 50% of its signal strength is used in the first foot of material below the ground surface.

2.3.2.4 Various pieces of geophysical equipment were used during the OE Engineering Design field investigation at OOU6 of the former CCATF. This equipment included the Geonics EM-61 time domain metal detector (two channel), Schonstedt magnetometers (models GA-52B and GA-72CV), and the Foerster FEREX MK-26 dual tube fluxgate gradiometer. While the technical characteristics and operating parameters of each of these pieces of equipment varied greatly, each was found to be effective in various applications of the field investigation. In general, the EM-61 and MK-26 equipment was able to identify magnetic anomalies at depths up to and greater than four feet. This effective depth of the instruments was evidenced by the number of intrusive anomaly investigations performed where: no metallic items were recovered, the excavation reached 4 feet in depth, and the equipment registered a metallic anomaly below the excavation depth. The Schonstedts were strictly used for gross screening for grid staking, brush cutting, surface clearance, and pinpointing EM-61 anomalies.

### 2.3.3 OE Recovery

- 2.3.3.1 Once a site has been surveyed by either visual or geophysical means, the recovery of OE can begin. Recovery operations can take the form of a surface-only clearance of OE, an intrusive (subsurface) clearance of OE, or a combination of the two. The decision on the level of clearance operation to engage in is based on the nature and extent of the OE contamination as well as the future use of the site.
- 2.3.3.2 During a surface clearance operation, exposed OE or suspected OE are identified during the detection phase. Then the OE are inspected, identified, and transported to a designated area for cataloging and eventual disposal. If it is determined during the OE inspection that the item cannot be safely moved, then it may be necessary to destroy the OE item in place.
- 2.3.3.3 During a subsurface clearance operation, buried OE or suspected OE identified by the geophysical survey or other detection methods requires excavation for removal. Because the actual nature of the buried OE item cannot be determined without it being uncovered, non-essential personnel evacuations are necessary, as well as, perhaps, the use of engineering controls to ensure the safety of the operation. The excavation of the OE item then takes place with either hand tools or mechanical equipment depending on the suspected depth of the object. Once the OE item has been exposed, it is then inspected, identified, and transported to a designated area for cataloging and eventual disposal. If it is determined during the OE inspection that the item cannot be safely moved, then it may be necessary to destroy the OE item in place.
- 2.3.3.4 Evacuations are sometimes necessary when conducting intrusive investigations to minimize the risk of the operation. An evacuation area is calculated by CEHNC based on the potential explosive force that could be encountered during an excavation. All non-essential personnel remain outside of this distance during excavation activities. For OOU6 of the former CCATF, this evacuation distance was calculated to

be 50 meters. Engineering controls can be developed to reduce this evacuation distance; however, evacuations may be required if any future OE investigation take place within 200 feet of any inhabited areas and engineering controls cannot be developed to reduce the exclusion zone to preclude the need to evacuate. Every possible option will be explored to minimize potential evacuations with the exception of compromising public safety. There are several potentially contaminated areas of OOU6 that are currently within 200 feet of inhabited areas (i.e. the active landfill and scalehouse).

### 2.3.4 OE Disposal

- 2.3.4.1 Disposal of recovered OE can take one of three different forms: off-site demolition and disposal; remote, on-site demolition and disposal; and in-place demolition and disposal. The decision regarding which of these techniques to use is based on the risk involved in employing the disposal option, as determined by the specific area's characteristics and the nature of the OE recovered. The decision to remove OE items to another location must be coordinated and with the approval of the USACE representative.
- 2.3.4.2 If transported off-site for destruction, the OE would be transported by either Army personnel or by a qualified UXO contractor. The OE is typically transported to an active military installation where it can be safely destroyed. The transportation of OE is performed in accordance with the provisions of 49 CFR 100-199, TM 9-1300-206, and applicable state and local laws. A Transportation Plan detailing the route and procedures used during the transportation is prepared and approved prior to engaging in any off-site OE transport to ensure all safety aspects of the movement have been addressed.
- 2.3.4.3 If OE is recovered in close proximity to occupied buildings it may not be possible to safely destroy the OE item in place. In this instance, the OE item can be moved to a remote part of the project site where demolition and disposal can safely take place. A countercharge can be used to destroy the OE item or the OE item can be burned as a means of destruction. Burning an OE item is not as desirable as a countercharge; however, as the burning can produce secondary explosions or the item may not be completely destroyed, thus leaving the OE item in a more dangerous state than it was originally. Engineering controls, such as sandbag mounds and sandbag walls over and around the OE item, are often used to minimize the blast effects when an OE item is destroyed in this manner.
- 2.3.4.4 Finally, an OE item may be destroyed in place. This technique is typically employed when the OE item cannot be safely moved to a remote location. When employing this technique, procedures similar to those described above are used that will detonate the OE item or apply sufficient pressure and heat to neutralize the hazard. When this technique is employed, engineering controls such as sandbag mounds and sandbag walls over and around the OE item are often used to minimize the blast effects.

#### 2.4 DEVELOPMENT OF ALTERNATIVES

#### 2.4.1 Introduction

2.4.1.1 The alternatives identified in this section have been selected based on the results of the investigations conducted to date as well as available OE detection and

disposal technology currently available. Each alternative, if implemented, must have the ability to achieve the removal action objectives. For the removal action at OOU6 of the former CCATF, eight alternatives have been developed. These alternatives were evaluated for each of the five OOU6 sectors and include:

- no further action;
- institutional controls:
- surface clearance only of OE;
- surface clearance of OE and institutional controls:
- surface clearance of OE with selected areas being cleared to a depth of one foot;
- surface clearance of OE with selected areas being cleared to a depth of four feet;
- complete surface and subsurface clearance of OE to a depth of one foot across the entire site: and
- complete surface and subsurface clearance of OE to a depth of four feet across the entire site.
- 2.4.1.2 No remedial measure, even using the best available technology, can completely remove all OE risk within OOU6 of the former CCATF. Yet, all of the remedial measures being considered for the site will reduce the risks posed by ordnance detonation, resulting in some reduction of the OE risk.
- 2.4.1.3 Each of the eight approaches listed above has been developed for the entire OOU6 site and then applied independently to sectors, as applicable, in this OE Engineering Design. These sectors are the same as those outlined in Section 1.6.4 of this document. They include the Roads and Site Operation Building, the Pine Farm, the Landfill and Compost A Areas, the Pond Area, and the Natural Brush/Forest Area. This approach has been taken based on the differing amounts of OE contamination found in the six investigated sectors based on the results of the OE site investigations and the different current and future use of these areas. This division of OOU6 will ensure that a tailored approach suitable for each parcel is developed in this document.

### 2.4.2 Alternative 1: No Further Action

Alternative 1 is to take no further action in regards to locating, removing, and disposing of any potential OE in a designated sector of OOU6. No further action would involve the continued use of the sector in its current condition. If the potential exposure and hazards associated with the sector are compatible with current conditions and operations in the area as well as the removal action objectives, then no further action toward reducing a potential public safety threat is warranted. Alternative 1 is a potential candidate alternative for the Pine Farm (Sector 2), the Landfill and Compost A Areas (Sector 3), and the Natural Brush/Forest Area (Sector 6). Because of specific considerations for two small areas in two sectors, the Pine Farm and the Natural Brush/Forest Area A, the no further action alternative for these sectors include a limited

action using presumptive remedy to address OE contamination at these two proposed future land use areas. The areas concerned are the future storage barn in the Pine Farm and proposed Compost B in the Natural Brush/Forest Area A. The presumptive remedy for the future storage barn is surface clearance and subsurface clearance of OE to a depth of one foot. Surface clearance is recommended for Compost B.

#### 2.4.3 Alternative 2: Institutional Controls

- 2.4.3.1 Alternative 2 includes the implementation of institutional controls to restrict access to the site. Access can be restricted by either imposing administrative restrictions and/or by installing physical barriers. Administrative restrictions could take the form of a deed restriction limiting the future use of the parcel or requiring that precautions be taken (such as requiring OE clearance by UXO-qualified personnel) during any future construction activities. Physical barriers would involve fencing and posting the area to ensure that the local populace does not enter the property and inadvertently come into contact with OE. Fencing of an area of all or portions of the OOU6 site would involve the installation of a standard chain link-style fence with signs and gates. The installation of the fence could be performed by any government or contractor personnel and would require the assistance of experienced UXO-qualified personnel to perform a surface clearance of OE along the proposed fence line as well as subsurface clearance where any intrusive activities were to be conducted. Annual inspection and maintenance of the fencing would be required to ensure its continued integrity.
- 2.4.3.2 Current development of parcels of OOU6 by one of the private landowners is in progress and future development is planned. An active industrial landfill exists within OOU6 and construction of a pond is in progress. Residential development may be planned in the future. Therefore, Alternative 2 is an unlikely candidate alternative since any restriction imposed on the private landowners by this alternative would likely result in legal claims.

#### 2.4.4 Alternative 3: Surface Clearance of OE

- 2.4.4.1 Alternative 3 includes the surface clearance of all OE and OE-related items from the site or a sector of the site. A land surveyor would establish control points for a grid system that would cover the area. Due to the pine forest and thick vegetation that cover much of OOU6, brush clearing crews would clear enough undergrowth so that the surface clearance crews could adequately perform their work. Surface clearance would be completed by experienced UXO-qualified personnel who would visually search the ground surface for any OE. In addition, UXO-qualified personnel would also use metal detection devices to ensure that any OE items that may exist on or within the top 6 inches of existing ground cover are located during the sweep. The UXO-qualified personnel would perform their sweep in lanes five feet wide, or some other comparable width depending on the sweep reach of the type of metal detection equipment used, to ensure complete surface coverage. All metallic contacts on the ground surface (up to 6 inches below the surface) would then be identified.
- 2.4.4.2 Any OE located during the sweep would be inspected to ensure its stability. During this inspection, a determination would be made whether any uncovered OE items

could be moved based on an Explosive Ordnance Reconnaissance (EOR). If practicable, the OE would be removed from the site for off-site destruction. If a determination is made through the EOR that the OE item is not safe to move, then the object would be destroyed in place. If necessary, engineering controls would be used to minimize the need for evacuation of the public. All inert OE items or other OE-related scrap would be removed from the area and transported off-site for disposal.

2.4.4.3 In order to be effective, the surface sweep alternative would have to be performed periodically to ensure that OE items newly uncovered by erosion are removed. OE items have been found on the site by the property owner(s) after previous clearance activities were performed. As a result, if this alternative is selected, it would have to be performed periodically in order to be effective. The surface clearance of OE is a viable remedial alternative for the Pine Farm (Sector 2), the Pond Area (Sector 4), and the Natural Brush/Forest Area (Sector 6) based on the estimated reduction in expected annual OE exposures afforded by implementation of this alternative (Appendix D).

### 2.4.5 Alternative 4: Surface Clearance of OE and Institutional Controls

Alternative 4 is a combination of Alternatives 2 and 3 and includes the implementation of institutional controls to restrict the future use and public access to the entire site (or a sector) along with the periodic surface sweeps to uncover any OE items that may lie on the surface of the property.

### 2.4.6 Alternative 5: Surface Clearance of OE with Subsurface Clearance Of Selected Areas to a Depth of One Foot

- 2.4.6.1 Alternative 5 includes the surface clearance of all OE and OE-related items (as specified in Alternative 3) with the addition of subsurface clearance of OE items that can be located to a depth of one foot below the ground surface in selected areas. The areas selected for the subsurface investigation will be determined based on the current or potential future land use of the property as well as those areas with the greatest likelihood of containing OE (if discernable) based on the OE Engineering Design investigations. Land surveying and brush clearing operations will be necessary as described in Alternative 3. Under this alternative, one hundred percent of the "selected" areas of the site or sector will be cleared on the surface and in the subsurface to a depth of one foot. This alternative would consist of two phases: an investigation phase and a subsurface clearance phase. Both phases of this alternative will be performed by experienced UXO-qualified personnel.
- 2.4.6.2 During the investigation phase, a metal detection device will be used to perform the surface sweep which is also capable of performing the subsurface survey. In this way, both the surface and subsurface surveys can be performed simultaneously saving the government time and money. The primary difference in performing this kind of survey over that described in Alternative 3 is that instead of performing an immediate visual identification of all anomalies identified during the survey; a marking/locating system must be used to be able to relocate the subsurface anomaly at a later date to intrusively investigate it. All surface anomalies uncovered during the performance of the

survey will be immediately identified and removed from the area to ensure that only subsurface anomalies remain.

2.4.6.3 The second phase to this approach includes the intrusive investigation of all subsurface metallic anomalies identified during the metal detection survey to determine their exact nature. During this intrusive investigation phase engineering controls may have to be used to decrease the evacuation distance that will be required during the conduct of these investigations. Evacuation distances are determined by CEHNC based on the "maximum credible event" (MCE) or worst case scenario of the potential detonation of an ordnance item that could be found at the site. All non-essential personnel are evacuated at this distance from the excavated area based on the MCE to maximize the safety of the operation. In the case of OOU6 within the former CCATF, the evacuation distance used during the intrusive investigations conducted during the OE Engineering Design field investigation was 50 meters. Engineering controls can be used during subsequent OE investigations that can decrease this distance. Once the intrusive investigations begin, each anomaly will be excavated in six-inch depth increments. If the item causing the magnetic reading has not been identified within the first foot below the ground surface, then the excavation will cease and the excavated area will be returned to its original state.

### 2.4.7 Alternative 6: Surface Clearance of OE with Subsurface Clearance Of Selected Areas to a Depth of Four Feet

Alternative 6 includes the surface clearance of all OE and OE-related items from the entire site in the same manner as detailed in Alternative 5 except that subsurface clearance of anomalies will be performed in selected areas to a depth of four feet below ground surface. The areas selected for this level of subsurface clearance would be determined based on the current or future land use of the property as well as the level of subsurface OE contamination found in the selected areas based on the Engineering Design results. This type of clearance operation must be performed by experienced UXO-qualified personnel. The steps used in conducting this type of survey would be the same as those outlined in Alternative 5. The only difference in the conduct of the operation would occur during the intrusive investigation phase of the operation where the excavations would be conducted to a depth of four feet rather than the one foot depth used in Alternative 5.

### 2.4.8 Alternative 7: Surface Clearance of OE with Subsurface Clearance Of Entire Area to a Depth of One Foot

Alternative 7 includes the surface and subsurface clearance of all OE and OE-related items to a depth of one foot across the entire site or sector in the same manner as detailed in Alternative 5. This alternative would have to be performed, as in the case of Alternatives 4, 5, and 6, by experienced UXO-qualified personnel. This alternative would be used if the Engineering Design field investigation and subsequent risk assessment cannot discriminate the location of OE items in the investigated area, the OE contamination is found predominantly within the first foot below the surface, and the future use of the area is in question. As in Alternatives 5 and 6, this alternative will require a two-phase approach. The conduct of the survey and excavation phases will be

similar to that outlined in the previous alternatives with the main difference being the number and extent of intrusive investigations that must be performed.

### 2.4.9 Alternative 8: Surface Clearance of OE with Subsurface Clearance Of Entire Area to a Depth of Four Feet

Alternative 8 includes the surface and subsurface clearance of all OE and OE-related items to a depth of four feet across the entire site or sector in the same manner as detailed in Alternative 7. This alternative is the most ambitious of the eight alternatives examined in this Engineering Design. This alternative would have to be performed, as in the case of Alternatives 4, 5, 6 and 7, by experienced UXO-qualified personnel. This alternative would be used if the preliminary investigation and subsequent risk assessment cannot discriminate the location of OE items in the investigated area, the depth of the OE contamination is found to be greater than one foot, and the future use of the entire site or sector is in question. As in Alternatives 5, 6, and 7, this alternative will require a two-phase approach. The conduct of the survey and excavation phases will be similar to that outlined in the previous alternatives with the main difference being the number and extent of intrusive investigations that must be performed.

#### 2.5 EVALUATION OF ALTERNATIVES

#### 2.5.1 Introduction

- 2.5.1.1 As part of the OE Engineering Design process, each of the eight alternatives identified in Section 2.4 were analyzed and screened against the three general categories of effectiveness, implementability, and cost. This screening was performed to each of the sectors at OOU6 for which alternative selection was applicable: the Pine Farm (Sector 2), the Landfill and Compost A Areas (Sector 3), the Pond Area (Sector 4), and the Natural Brush/Forest Area (Sector 6). Remedial alternatives for the Wetlands/Stream Area (Sector 5) and the Uninvestigated Area (Sector 8) were not evaluated since OE data was not collected from these sectors. The Roads and Site Operation Building (Sector 1) and EE/CA Grid 87 (Sector 7) were previously investigated. The entire area within Sector 1 was cleared of OE during the TCRA and remediation work for Sector 8 is pending. Therefore, alternative evaluation of these sectors was not warranted. The purpose of this screening was to ensure that only viable alternatives were ranked against each other. Once this screening was completed, the remaining alternatives was compared against each other to determine the best response action for each of the four remaining sectors of OOU6 within the former CCATF.
- 2.5.1.2 The effectiveness of an alternative refers to its ability to meet the clean-up objective within the scope of the removal action. The effectiveness category is divided into four evaluation criteria. These include: Overall Protection to Human Health and the Environment; Compliance with ARARs; Long-Term Effectiveness; and Short-Term Effectiveness.
- 2.5.1.3 The implementability category includes the technical and administrative feasibility of implementing an alternative; the availability of various services and materials required during its implementation; and the acceptance that property owners and local

residents, have expressed towards the various alternatives. The implementability category is divided into four evaluation criteria including: Technical Feasibility; Administrative Feasibility; Availability of Services and Materials and Property Owner Acceptance.

2.5.1.4 Finally, each alternative is evaluated to determine its projected overall implementation cost. Included in the cost calculation is an estimate as to the amount of time that will be necessary to complete the proposed alternative. Each of the evaluation criteria introduced above will be discussed in greater detail in the following paragraphs.

#### 2.5.2 Effectiveness

- 2.5.2.1 Overall Protection of Human Health and the Environment: Alternatives are evaluated under this criterion on how well they achieve and maintain protection of human health and the environment.
- 2.5.2.2 Compliance with ARARs: Evaluation under this criterion ensures that all requirements can be met without regulatory problems. The assessment may also include the TBC criteria. The application of ARARs for each alternative will primarily focus on what ARARs apply as well as how they will be met.
- 2.5.2.3 Long-Term Effectiveness: This criterion measures how an alternative maintains the protection of human health and the environment after the response objectives have been met. The analysis focuses on:
  - the permanence of the response action alternative;
  - the magnitude of residual risk following completion of the response action; and
  - the adequacy and reliability of controls, if any, used to manage the treated residuals or untreated wastes that remain at the site following the response action.
- 2.5.2.4 Short-Term Effectiveness: This criterion addresses the effects of an alternative during the implementation phase. Alternatives are evaluated for their effects on human health and the environment prior to the response objectives being met. More specifically, each alternative will be examined for:
  - protection of the community and workers during the response action;
  - adverse impacts resulting from construction and implementation; and
  - the time required to meet the response objectives.

### 2.5.3 Implementability

- 2.5.3.1 Technical Feasibility: This criterion evaluates the ease of implementing a specific alternative. The analysis of the technical feasibility for each course of action focuses on difficulties in:
  - the operation and construction of the response action;
  - the reliability of the response action in relation to implementation; and

- 2.5.3.2 Administrative Feasibility: This criterion focuses on the planning for a course of action. The evaluation of this criterion considers difficulties in:
  - obtaining permits applicable to a proposed alternative;
  - · coordinating services needed to carry out an alternative; and
  - arranging the delivery of services in a timely manner.
- 2.5.3.3 Availability of Services and Materials: This criterion primarily deals with the availability of services needed to carry out an alternative. Two issues are of primary importance under this criterion:
  - can the services and materials be delivered conveniently; and
  - are the quantities needed to implement the response action available in a timely manner.
- 2.5.3.4 Property Owner Acceptance: As each of the alternatives will have a varying degree of impact on the current landfill and compost operations, pond construction/utilization, hunting clubs and future operations and developments (for example, pine harvesting, construction of a storage barn, use of Compost B, and Phase III and Phase IV landfill expansion; the input of the property owners involved in these activities is a critical component of the evaluation process. As a result, each alternative is evaluated and rated based on the degree of acceptance expressed by the property owner(s).

#### 2.5.4 Cost

As the scope of work for each alternative is developed, an order of magnitude cost estimate is calculated for costs associated with the implementation of each response action. These costs will include the direct and indirect capital costs incurred in implementing the response action. As part of this assessment a time frame for completion of each of the proposed alternatives is also developed.

## 2.5.5 Application of the Evaluation Criteria by Alternative for the Roads and Site Operations Building (Sector 1), Wetlands/Stream Area (Sector 5), and the Uninvestigated Area (Sector 8)

2.5.5.1 Evaluation of the applicability of the eight remedial alternatives will not be applied to the Roads and Site Operations Building, the Wetlands/Stream Area, and the Uninvestigated Area. The Roads and Site Operations Building sector (Sector 1) was cleared of OE items to a depth of four feet during the TCRA investigation in 1995/1996. The most conservative remedial alternative evaluated during this OE Engineering Design is Alternative 8 which includes subsurface clearance of an entire sector to a depth of four feet. For Sector 1, the annual number of potential exposures identified during the risk assessment was 0 based on TCRA data. Therefore, no further action is necessary and the alternative offers the maximum overall protection of human health and the environment.

- 2.5.5.2 The Wetland/Stream Area was not investigated during the OE Engineering Design. The Corps respects the decision of the regulatory agency that wetland habitats shall not be disturbed. Therefore, no further evaluation of OE risk in this sector was undertaken.
- 2.5.5.3 Sampling data was not collected from the "Uninvestigated" Area (Sector 8) due to either property owner denial of right-of-entry or property owners who could not be contacted. Extrapolation of OE contamination concentrations from adjacent sectors to the Uninvestigated Area was viewed to be unreliable. Therefore, evaluation of alternatives for this sector was not conducted.

### 2.5.6 Application of the Evaluation Criteria by Alternative for the Pine Farm (Sector 2)

#### 2.5.6.1 Alternative 1: No Further Action

- 2.5.6.1.1 Effectiveness: For the Pine Farm the No Further Action Alternative with a limited removal action at an area specifically identified for future development (construction of a storage barn) will provide for the overall protection of human health and the environment. The property owner has stated that OE clearance work was conducted on the site of the future storage barn area by a local UXO clearance specialist but there is no documentation of this activity. Currently, the area has been brush cleared and graded. During the OE Engineering Design field effort a portion of this area was formally cleared by the UXO Subcontractor and used as a temporary Magazine Storage Area (Figures 1-8 and 1-11). The risk assessment estimated the annual number of potential OE exposures at 4 for this sector (Appendix D). This exposure estimate was based on the continued recreational land use (hunting), future timber harvests, and future construction of the storage barn. Although the estimated risk is considered extremely low, 9 inert OE items were discovered in sampling grids randomly placed over 2.47 acres of the sector's 38.94 acres (6.3%) during the OE Engineering Design field work (Table 1.5). In addition, the OE contamination was not confined to a portion of the sector but was randomly spread throughout. Approximately 8.5 pounds of OE scrap per investigated-acre were recovered from the Pine Farm sector. This alternative would offer some degree of both short-term and long-term effectiveness and permanence.
- 2.5.6.1.2 Construction activity for the storage barn would include intrusive effort and could pose risks to the safety of workers on site. Therefore, a limited surface and subsurface clearance of OE is proposed as a presumptive remedy for this sector. The limited clearance work will comply with ARARs.

### 2.5.6.2 Alternative 2: Institutional Controls

2.5.6.2.1 Effectiveness: For the Pine Farm the Institutional Controls alternatives will provide for the overall protection of human health and the environment, comply with ARARs, and provide for both the long-term and short-term effectiveness. For this sector, the institutional controls to be implemented will take a three-pronged approach. First, a deed restriction must be placed on the area to ensure that any construction or improvements of the sector are performed with the assistance of UXO-qualified

personnel. Second, an educational program for local emergency response personnel should be undertaken to ensure that they are knowledgeable in the appropriate response procedures in the event that OE items are encountered in the sector. Finally, a fence must be installed with signs warning both the local populace and visitors to the sector not to handle any OE items discovered on the surface and who should be contacted in the event that OE items are encountered. Future recreational use of the Pine Farm preclude the use of institutional controls for long-term effectiveness unless a restriction is placed on the property deed.

- 2.5.6.2.2 Implementability. The imposition of a deed restriction on the Pine Farm sector is feasible but the area is large and the property owner will likely require compensation for limitation of use of this area. Fencing would prove to be an effective barrier in minimizing the public's contact with OE items. The implementation of these institutional controls can provide enough protection to the public to allow this alternative to be effective. However, the implementation of institutional controls as described will cause the following:
  - Interfere with landfill and compost operations;
  - Limit access to prime areas for recreational hunting;
  - Restrict wildlife (deer and wild turkey) movement and diminish quality of area for recreational hunting;
  - Limit access to the future storage barn;
  - Limit expansion of the pine farm; and
  - Require rerouting of access roads to several areas of interest to the property owner.
- 2.5.6.2.3 On the basis of these potential impacts to the property owner's site operations, ability to execute his present and future land use plans, and the administrative difficulties in coordinating services that would be needed with site operations, this alternative will be very difficult to implement. In this regard, no further analysis of this alternative will be performed.

### 2.5.6.3 Alternative 3: Surface Clearance Only of OE

- 2.5.6.3.1 Effectiveness: For the Pine Farm the Surface Clearance of OE alternative would provide some additional protection to human health and the environment. At OOU6, seven of the fifteen OE items recovered during the intrusive investigation were encountered within six inches below ground. The annual number of potential OE exposures was estimated at 2 during the risk assessment for the Surface Clearance alternative as opposed to 4 for the No Further Action alternative (Appendix D).
- 2.5.6.3.2 Implementability: For the Pine Farm, this type of OE investigation is both technically and administratively feasible and the services and materials necessary to implement such an investigation are readily available. The property owner would likely

be receptive to this alternative since it would have minimum impact to current site operations and not impact future land use.

2.5.6.3.3 Cost: The cost to perform this alternative is summarized in Appendix G. This alternative will take approximately 7 weeks to complete. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.6.4 Alternative 4: Surface Clearance of OE With Institutional Controls

- 2.5.6.4.1 Effectiveness: OE Surface Clearance with Institutional Controls can be an effective response to the OE contamination found in the Pine Farm. This alternative allows for additional overall protection of human health and the environment.
- 2.5.6.4.2 Implementability: As explained in Alternative 2, the potential impact to the property owner's site operations and development plans make Alternative 4 technically and administratively difficult to implement. In this regard, no further analysis of this alternative will be performed.

### 2.5.6.5 Alternative 5: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of One Foot

Effectiveness: For this alternative, the entire sector would undergo a one-time surface clearance as in Alternative 3 and areas within the pine farm would be selected for subsurface clearance. The subsurface clearance would extend to one foot below current grade. Under current site conditions, use of this sector (pine farm) remains the same and would likely remain as such in the near future (except for the construction of the storage barn). OE contamination in this sector is not confined to a specific area but was randomly spread throughout. For these reasons, there is no basis to discern or select other areas for subsurface clearance. Therefore, this alternative would not offer any increase in effectiveness compared to Alternative 3. In this regard, further analysis of this alternative is not warranted.

### 2.5.6.6 Alternative 6: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of Four Feet

Effectiveness: This alternative is similar to Alternative 5, but with subsurface clearance to a depth of four feet. The alternative would not offer additional benefit as the estimated annual number of potential OE exposures remains the same as for Alternatives 3 and 5. In addition, there is no basis for selecting other areas within the sector for clearance. Therefore, no further analysis of this alternative will be performed.

### 2.5.6.7 Alternative 7: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of One Foot

2.5.6.7.1 Effectiveness: For Alternative 7, the entire sector would undergo a onetime OE surface clearance and subsurface clearance would extend to one foot below current grade. The alternative would offer additional benefit as the estimated annual number of potential OE exposures per sector is reduced from 2 for Alternative 3 to 1 for Alternative 7.

- 2.5.6.7.2 Implementability: This type of OE investigation is both technically and administratively feasible and the services and materials necessary to implement such an investigation are readily available. The property owner would be receptive to this alternative since it would provide increased overall protection of human health and the environment.
- 2.5.6.7.3 Cost: The cost to perform this alternative is summarized in Appendix G. This alternative will take approximately 7 weeks to complete. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.6.8 Alternative 8: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of Four Feet

Effectiveness: This alternative is similar to Alternative 7, but with subsurface clearance to a depth of four feet. The alternative would not offer additional benefit over Alternative 7 as the estimated annual number of potential OE exposures per sector remains at 1. Therefore, no further analysis of this alternative will be performed.

### 2.5.7 Application of the Evaluation Criteria by Alternative for the Landfill and Compost A Areas (Sector 3)

### 2.5.7.1 Alternative 1: No Further Action

- 2.5.7.1.1 Effectiveness: For the Landfill and Compost A Areas the No Further Action alternative will provide for the overall protection of human health and the environment based on the risk assessment which estimated the annual number of potential OE exposures at 1 for the sector. This exposure estimate is considered extremely low and was based on continued industrial use of the sector as a landfill.
- 2.5.7.1.2 Portions of the Landfill and Compost A Areas were previously cleared during the TCRA investigation. Therefore, the No Further Action alternative is applicable to this portion of the sector. The uncleared southern half of Landfill 1, within the Landfill and Compost A Areas sector, was investigated during the OE Engineering Design. No ordnance was recovered from any of the four randomly placed sampling grids. Seven additional grids were established in the proposed Landfill 2 portion of the Landfill and Compost A Areas for confirmation of the TCRA findings that no ordnance was present. No ordnance was recovered.
- 2.5.7.1.3 The No Further Action alternative would comply with ARARs for the cleared portion of the sector since the OE has been removed. In addition, the short-term and long-term effectiveness criteria are met. However, on the basis of on-going landfill operations within this sector, the No Further Action alternative is not applicable to the uncleared portion of the sector (southern half of Landfill 1 including Compost A and the entire Landfill 2). As a result, this alternative fails in the effectiveness category and no further analysis will be performed.

#### 2.5.7.2 Alternative 2: Institutional Controls

- 2.5.7.2.1 Effectiveness: An Institutional Control alternative for the Landfill and Compost A Area can provide for the overall protection of human health and the environment although the additional protection above the No Further Action alternative is expected to be minimal. The Institutional Control alternative will include the installation of a fence and signs around the sector to keep unauthorized personnel off of the property, a deed restriction will be negotiated to ensure that any future intrusive activities within the sector are performed with the assistance of UXO-qualified personnel, and an education program for the landfill workers at the site will be implemented to ensure they are aware of the danger that OE items represent in the area. The installation of a fence around the perimeter of the sector will provide an effective barrier for unauthorized personnel. This barrier can take the form of a chain-link style fence. In addition to the fence, signs should be posted along the perimeter warning people to stay off of the affected property because of the dangers posed by OE items that could be present here. The institution of an education program for the landfill workers on the dangers posed by OE items along with a deed restriction requiring the clearance by UXO-qualified personnel (trained personnel from the U.S.D.O.D. EOD school, Indianhead, MD or similar), prior to engaging in any intrusive activities on the site will provide for the overall protection of the workers and recreational users of the property. The implementation of these institutional controls will comply with ARARs and will address both the long-term and short-term effectiveness issues of the alternative.
- 2.5.7.2.2 Implementability. The implementation of institutional controls as described will cause the following:
  - Interfere with landfill and compost operations;
  - Limit access to the Landfill 1, Landfill 2 and Compost A;
  - Limit expansion of the Landfill; and
  - Require rerouting of access roads to several areas of interest to the property owner.
- 2.5.7.2.3 On the basis of these potential impacts to the property owner's site operations, ability to execute his present and future land use plans, and the administrative difficulties in coordinating services that would be needed with site operations, this alternative will be very difficult to implement. In this regard, no further analysis of this alternative will be performed.

### 2.5.7.3 Alternative 3: Surface Clearance Only of OE

Effectiveness: For the Landfill and Compost A Areas a Surface Clearance of OE would not provide adequate protection to human health and the environment due to the excavation activities associated with operation of the landfill(s). Therefore, this alternative does not meet the effectiveness category and no additional analysis of this alternative will be performed.

### 2.5.7.4 Alternative 4: Surface Clearance of OE With Institutional Controls

Effectiveness: This alternative for Sector 3 offers no additional protection to human health and the environment over Alternative 1 or 2. The risk assessment results indicate the estimated annual number of potential OE exposures remains the same for Alternatives 1, 2, and 3 (Table 1.11). As a result, the Surface Clearance of OE with Institutional Controls alternative is no more effective than Alternatives 1 and 2, therefore, no further analysis of this alternative is warranted.

### 2.5.7.5 Alternative 5: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of One Foot

Effectiveness: As described in Alternative 3, Surface Clearance offers no additional protection to human health and the environment over Alternative 1, No Further Action, because landfill operations occur to depths greater than one foot and intrusive data shows majority of OE items have been found at depths greater than six inches. No reduction in the annual number of potential OE exposures per sector over Alternatives 1 and 3 is achieved for Sector 3 by implementation of one foot OE clearance (Appendix D). As a result, the OE Surface Clearance with Subsurface Clearance of Selected Areas to Depth of One Foot alternative fails in the effectiveness category and no additional analysis of this alternative will be performed.

### 2.5.7.6 Alternative 6: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of Four Feet

- 2.5.7.6.1 Effectiveness: For the Landfill and Compost A Area sector, a reduction in the estimated annual number of potential OE exposures per sector (from 1 to 0) over Alternative 1 is achieved for Alternative 6 (Appendix D). The "selected" areas would include the entire portion of the sector not cleared of ordnance during the TCRA or the EE/CA (i.e. the southwestern portion of Landfill 1, Compost A and Landfill 2). The estimated total portion of the sector for clearance is approximately 15 acres. In this alternative, the depth of the intrusive investigation extends to four feet below the current grade.
- 2.5.7.6.2 Implementability: This type of OE investigation is both technically and administratively feasible and the services and materials necessary to implement such an investigation are readily available. The property owner would be receptive to this alternative because it would enable implementation and completion of the development plan for this sector.
- 2.5.7.6.3 Cost: The cost to perform this alternative is summarized in Appendix G. This alternative will take approximately 6 weeks to complete. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are also included in Appendix G.

### 2.5.7.7 Alternative 7: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of One Foot

Effectiveness: For the Landfill and Compost A Areas the Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot alternative would not provide additional protection to human health and the environment due to the excavation activities associated with operation of the landfill(s). As a result, the Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot alternative fails in the effectiveness category for The Landfill and Compost A Areas and no additional analysis of this alternative will be performed.

### 2.5.7.8 Alternative 8: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of Four Feet

Effectiveness: For the Landfill and Compost A Areas the OE Surface Clearance with Subsurface Clearance of Entire Area to Depth of Four Feet alternative would provide additional protection to human health and the environment as evidenced by the reduction in the estimated annual number of potential OE exposures per sector from 1 to 0 (Appendix D). However, approximately 30% of the sector has already been cleared of OE to a depth of four feet. Alternative 6 is defined as clearance of the previously uncleared portion of the sector, therefore, for this sector Alternative 8 would not provide any additional exposure reduction. No additional analysis of this alternative will be performed.

### 2.5.8 Application of the Evaluation Criteria by Alternative for the Pond Area (Sector 4)

#### 2.5.8.1 Alternative 1: No Further Action

Effectiveness: For the Pond Area the No Further Action alternative would not provide for the overall protection of human health and the environment. A potential OE risk exists in the pond area. During the intrusive investigation conducted in this sector, 5 inert and 1 live OE items were discovered in grids randomly placed over 2.47 of the sector's 24.86 acres (9.9%). The OE contamination was not confined to a portion of the sector but was randomly spread throughout. Approximately 2.78 pounds of OE scrap per investigated-acre were recovered from the Pond Area. The annual number of potential OE exposures was estimated at 18 during the risk assessment for the No Further Action alternative (Appendix D). This exposure estimate was based on the intended recreational land use and current development. As a result, this alternative fails in the effectiveness category and no further analysis of this alternative will be performed.

### 2.5.8.2 Alternative 2: Institutional Controls

2.5.8.2.1 Effectiveness: For the Pond Area the Institutional Control alternative can provide for the overall protection of human health and the environment, comply with ARARs, and provide for both the long-term and short-term effectiveness. For this sector the institutional controls to be implemented will take a three-pronged approach. First, a deed restriction must be placed on the area to ensure that any further construction or improvements on the pond and surrounding area are performed with the assistance of

UXO-qualified personnel. Second, an educational program for local emergency response personnel should be undertaken to ensure that they are knowledgeable in the appropriate response procedures in the event that OE items are encountered in the sector. Finally, a fence must be installed with signs warning both the local populace and visitors to the sector not to handle any OE items discovered on the surface and who should be contacted in the event that OE items are encountered. The imposition of a deed restriction on this area is not feasible as the property owner has already initiated pond construction. Fencing outside the edge of the sector would prove to be an effective barrier in minimizing the public's contact with OE items. The implementation of these institutional controls can provide enough protection to the public to allow this alternative to be effective. However, future recreational use of the area precludes the use of institutional controls for long-term effectiveness unless a restriction is placed on the property deed

2.5.8.2.2 Implementability: The property owner is currently implementing a development plan and is unlikely to accept any restriction to his intended use of the Pond Area. Thus, the Institutional Controls alternative is not technically and administratively feasible to implement. On this basis, no further analysis of this alternative for the Pond Area will be performed.

### 2.5.8.3 Alternative 3: Surface Clearance of OE

- 2.5.8.3.1 Effectiveness: For the Pond Area a surface clearance of OE would provide some additional protection to human health and the environment. At OOU6, seven of the fifteen OE items recovered during the intrusive investigation were encountered within the first six inches of excavation. However, topographic alterations associated with the pond construction coupled with continued erosion will mean that additional OE items may continue to appear over time as OE items that are just below the surface are uncovered. As a result, a one time surface clearance of OE or a periodic surface clearance of OE at a pre-determined time interval may not be fully effective for this area as OE items can be uncovered at any time. The estimated annual number of potential OE exposures was reduced from 18 to 2 during the risk assessment for the surface clearance alternative over the no further action alternative (Appendix D).
- 2.5.8.3.2 Implementability: This alternative is both technically and administratively feasible and the services and materials necessary to implement such action are readily available. The property owner would likely be receptive to this alternative since it would not impact future land use or significantly alter current conditions.
- 2.5.8.3.3 Cost: The cost to perform this alternative is summarized in Appendix G. This alternative will take approximately 5 weeks to complete. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.8.4 Alternative 4: Surface Clearance of OE With Institutional Controls

2.5.8.4.1 Effectiveness: OE Surface Clearance with Institutional Controls can be an effective response to the OE contamination found in the Pond Area. However, the

property owner is unlikely to accept any restrictions on development of this area. In addition, all current grading and topography reconfiguration activities in this sector would need to cease.

2.5.8.4.2 For the Pond Area, future recreational use precludes the use of institutional controls for long-term effectiveness unless a restriction is placed on the property deed. The property owner is unlikely to accept this restriction. Thus, the Surface Clearance with Institutional Controls alternative for the Pond Area does not meet the Effectiveness category. As this alternative fails the Effectiveness category, no further analysis of this alternative will be performed.

### 2.5.8.5 Alternative 5: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of One Foot

- 2.5.8.5.1 Effectiveness: For this alternative, areas within the Pond Area would be selected for subsurface clearance in addition to surface clearance described in Alternative 3. The subsurface clearance would extend to one foot below current grade. During the intrusive investigation conducted in this sector, 5 inert and 1 live OE items were discovered in grids randomly placed over 2.47 of the sector's 24.86 acres (9.9%). The OE contamination was not confined to a portion of the sector but was randomly spread throughout. Therefore, it would be difficult to effectively determine which portions of the sector to select for OE clearance. This alternative would likely recover a number of additional OE items as 80% of the OE items recovered during the intrusive investigation of OOU6 were found within the first foot below the surface.
- 2.5.8.5.2 Future intrusive activities would have to be limited to less than one foot in depth in areas cleared or UXO clearance personnel would have to be called in to provide clearance operations for any intrusive activities at depths greater than one foot for the areas cleared and for the areas that were not selected. Although this alternative provides for the overall protection of human health and the environment and also complies with ARARs, the alternative would not be fully effective in both the long term and short term because ongoing pond construction activities include excavation of soils and grading to depths greater than one foot below the ground and the potential for exposure to OE items could be enhanced by these activities.
- 2.5.8.5.3 Implementability: This type of OE investigation is both technically and administratively feasible and the services and materials necessary to implement such an investigation are readily available. However, the property owner is unlikely to accept future limits on intrusive activity since construction of the pond is underway. No further analysis of this alternative is warranted.

### 2.5.8.6 Alternative 6: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of Four Feet

2.5.8.6.1 Effectiveness: As in Alternative 5, the Pond Area would be cleared on the surface and selected areas in the subsurface. In this alternative, however, the depth of the intrusive investigation extends to four feet below the current grade. Again, it would be difficult to determine which area to select for clearing of OE because of the random

distribution of OE items in this area. Therefore, this alternative does not provide any measurably greater overall protection to human health and the environment than that afforded by Alternative 5. One hundred percent of the OE items recovered during the intrusive investigation performed at OOU6 were recovered in the first four feet below the ground surface. Intrusive activity (for example, installation of utility lines) in the future to depths greater than four feet will require the assistance of UXO-qualified personnel to clear the area prior to any intrusive activities being performed at these depths. This alternative complies with ARARs and is effective in both the long term and short term.

2.5.8.6.2 Implementability: Available information indicates that potential intrusive activity in the Pond Area cannot be restricted to only the selected areas because the general Pond Area is currently undergoing construction work and other development of this area is planned. The inability to discern which portions of this sector to clear, given current development effort would not make this alternative technically feasible. The property owner would likely not accept this alternative since it would not support ongoing construction work in the Pond Area and future intrusive restrictions would still be applicable. For these reasons, no further evaluation of this alternative is warranted.

### 2.5.8.7 Alternatives 7: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of One Foot

- 2.5.8.7.1 Effectiveness: In this alternative, all portions of the Pond Area would be cleared of OE on both the surface and in the subsurface to a depth of one foot regardless of the use of the site. This alternative provides for greater overall protection of the workers and visitors at the site than that provided by Alternatives 3 and 4. This alternative complies with ARARs and would be effective in both the long-term and short-term. The annual number of potential OE exposures per sector was estimated at 0 during the risk assessment for the Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of One Foot alternative (Appendix D).
- 2.5.8.7.2 Implementability: This type of OE investigation is both technically and administratively feasible for this portion of OOU6. The services and materials necessary to implement such an investigation are readily available. It is anticipated that the property owner would be receptive to this alternative, however, with some reservations because intrusive activities beyond depths greater than one foot would require assistance of UXO qualified personnel to clear the area prior to performing work.
- 2.5.8.7.3 Cost: The cost to perform this alternative is summarized in Appendix G. It will take approximately 4.5 weeks to complete the field work for this alternative. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.8.8 Alternative 8: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of Four Feet

2.5.8.8.1 Effectiveness: This alternative is the same as Alternative 7, except all portions of the Pond Area would be cleared of OE on both the surface and in the subsurface to a depth of four feet regardless of current or future use. This alternative

- complies with ARARs and is effective in both the long term and short term. The annual number of potential OE exposures per sector was estimated at 0 during the risk assessment for the Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of Four Feet alternative (Appendix D).
- 2.5.8.8.2 Implementability: Like Alternative 7, this type of OE investigation is both technically and administratively feasible for this portion of OOU6. The services and materials necessary to implement such an investigation are readily available. The property owner would likely be most receptive of this alternative.
- 2.5.8.8.3 Cost: The cost to perform this alternative is summarized in Appendix G. It will take approximately 5 weeks to complete the field work for this alternative. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.9 Application of the Evaluation Criteria by Alternative for the Natural Brush/Forest Area (Sector 6A and B)

#### 2.5.9.1 Alternative 1: No Further Action

- 2.5.9.1.1 Effectiveness: For the Natural Brush/Forest Area the No Further Action alternative will provide for the overall protection of human health and the environment based on the lack of OE items found in these sectors during the intrusive investigation. The Natural Brush/Forest Area was divided into 2 subsectors (A and B) for which annual exposure estimates were 5 and 0, respectively (Appendix D). This sector was divided based on the sources of the anomalies investigated. For example, non OE items (plow blades, magnetic rocks, etc.) were found primarily in Sector 6B. No ordnance was recovered in any of the 150 grids randomly established throughout the approximately 170 acres of the Natural Brush/Forest Area. A limited action employing a presumptive remedy, surface clearance of OE, would be implemented for the planned Compost B area within this sector.
- 2.5.9.1.2 The No Further Action alternative with limited action at Compost B would comply with ARARs since OE has not been recovered from this sector. In addition, the short-term and long-term effectiveness criteria are met. Thus, a No Further Action alternative for Sector 6 meets the Effectiveness category.
- 2.5.9.1.3 Implementability: This alternative is technically and administratively feasible. The property owner will likely accept this alternative based on the fact that no OE items were found in this sector during the OE Engineering Design field work and clearance of the planned development (Compost B) will be performed.
- 2.5.9.1.4 Cost: The cost estimate to implement the limited action described for this sector is provided in Appendix G. This action will take approximately 2 weeks to implement.

#### 2.5.9.2 Alternative 2: Institutional Controls

- 2.5.9.2.1 Effectiveness: An Institutional Control alternative for Sector 6 can provide for the overall protection of human health and the environment although the additional protection above the No Further Action alternative is expected to be minimal. The Institutional Control alternative will include the installation of a fence and signs around the sector(s) to keep unauthorized personnel off of the property, a deed restriction will be negotiated to ensure that any future intrusive activities within the sectors are performed with the assistance of UXO-qualified personnel, and an education program for the site workers and/or visitors at the site will be implemented to ensure they are aware of the danger that OE items represent in the area. The installation of a fence around the perimeter of the sectors will provide an effective barrier for unauthorized personnel. This barrier can take the form of a chain link style fence. In addition to the fence, signs should be posted along the perimeter warning people to stay off of the affected property because of the dangers posed by OE items that could be present here. This alternative will provide for the overall protection of the workers and recreational users of the property. The implementation of these institutional controls will comply with ARARs and will address both the long-term and short-term effectiveness issues of the alternative.
- 2.5.9.2.2 Implementability: The Natural Brush/Forest Area (A and B) has not been developed but is used recreationally for hunting. In addition, a plan already exists for the development of Compost B within this sector. The imposition of a deed restriction on this sector is feasible but the area is large (approximately 50% of Dr Lowry's property and approximately 40% of the entire OOU6) and the property owner will likely require compensation for limitation of use of this area. Fencing would prove to be an effective barrier in minimizing the public's contact with potential OE items. However, implementation of these institutional controls as described will cause the following:
  - Interfere with site operations (for example, landfill and compost operations);
  - Limit access to prime areas for recreational hunting;
  - Restrict wildlife (deer and wild turkey) movement and diminish quality of area for recreational hunting;
  - Limit expansion of the pine farm; and
  - Require rerouting of access roads to several areas of interest to the property owner.
- 2.5.9.2.3 On the basis of these potential impacts to the property owner's site operations, ability to execute his present and future land use plans, and the administrative difficulties in coordinating services that would be needed with site operations, this alternative will be very difficult to implement. In this regard, no further analysis of this alternative will be performed.

### 2.5.9.3 Alternative 3: Surface Clearance Only of OE

2.5.9.3.1 Effectiveness: Some additional protection to human health and the environment is afforded to the Natural Brush/Forest Area A (Sector 6A) by the

implementation of the surface clearance alternative. The annual number of potential OE exposures was estimated at 4 during the risk assessment for the surface clearance alternative as opposed to 7 for the No Further Action alternative (Appendix D). A Surface Clearance of OE in the Natural Brush/Forest Area B (Sector 6B) would not provide additional protection to human health and the environment since the annual number of potential OE exposures was estimated at 0 during the risk assessment for the No Further Action alternative (Appendix D). In addition, no ordnance was recovered from this sector during the OE Engineering Design. As a result, no additional analysis of this alternative or any other alternative for Sector 6B will be performed.

- 2.5.9.3.3 Implementability: This type of OE investigation is technically and administratively feasible and the services and materials necessary to implement such an investigation are readily available. For the Natural Brush/Forest Area A, the property owner would likely be receptive to this alternative since it would not impact future land use or significantly alter current conditions and it would provide additional protection of human health and the environment.
- 2.5.9.3.4 Cost: The cost to perform this alternative is summarized in Appendix G. This alternative will take approximately 10.5 weeks to complete. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.9.4 Alternative 4: Surface Clearance of OE With Institutional Controls

- 2.5.9.4.1 Effectiveness: This alternative for Sector 6B offers some additional protection to human health and the environment over Alternative 1 or 2 and would comply with ARARs.
- 2.5.9.4.2 Implementability: As described for Alternative 2, based on the potential impact to site operations and potential future development this alternative would not be technically feasible. For these reasons, the property owner likely would not accept this alternative. Therefore, no further analysis of this alternative will be performed.
- 2.5.9.4.3 This alternative offers no additional protection to human health and the environment over the previous alternatives evaluated for Sector 6B since the annual number of potential OE exposures was estimated at 0 during the risk assessment for the No Further Action alternative (Appendix D). In addition, no ordnance was recovered from this sector during the OE Engineering Design. As a result, no additional analysis of this alternative will be performed on this sector.

### 2.5.9.5 Alternative 5: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of One Foot

2.5.9.5.1 Effectiveness: As described in Alternative 3, Surface Clearance offers some additional protection to human health and the environment over Alternative 1, No Further Action for The Natural Brush/Forest Area A. However, without any evidence of OE contamination and/or specific request for future land use of an area, no basis exists

for selecting specific areas within the sector for subsurface clearance in addition to the sector-wide surface clearance. As a result, the OE Surface Clearance with Subsurface Clearance of Selected Areas to Depth of One Foot alternative fails in the effectiveness category and no additional analysis of this alternative will be performed (Appendix D).

2.5.9.5.2 This alternative offers no additional protection to human health and the environment over the previous alternatives evaluated for Sector 6B since the annual number of potential OE exposures was estimated at 0 during the risk assessment for the No Further Action alternative (Appendix D). In addition, no ordnance was recovered from this sector during the OE Engineering Design. As a result, no additional analysis of this alternative will be performed on this sector.

### 2.5.9.6 Alternative 6: Surface Clearance of OE With Subsurface Clearance of Selected Areas to a Depth of Four Feet

- 2.5.9.6.1 Effectiveness: As described in Alternative 3, Surface Clearance offers some additional protection to human health and the environment over Alternative 1, No Further Action for The Natural Brush/Forest Area A. However, without any evidence of OE contamination and/or specific request for future land use of an area, no basis exists for selecting specific areas within the sector for subsurface clearance in addition to the sector-wide surface clearance. As a result, the OE Surface Clearance with Subsurface Clearance of Selected Areas to Depth of Four Feet alternative fails in the effectiveness category and no additional analysis of this alternative will be performed.
- 2.5.9.6.2 This alternative offers no additional protection to human health and the environment over the previous alternatives evaluated for Sector 6B since the annual number of potential OE exposures was estimated at 0 during the risk assessment for the No Further Action alternative (Appendix D). In addition, no ordnance was recovered from this sector during the OE Engineering Design. As a result, no additional analysis of this alternative will be performed on this sector.

### 2.5.9.7 Alternative 7: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of One Foot

- 2.5.9.7.1 Effectiveness: Additional protection to human health and the environment is afforded to The Natural Brush/Forest Area A by the implementation of Alternative 7. The annual number of potential OE exposures was estimated at 2 during the risk assessment for the Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot alternative as opposed to 4 for the Surface Clearance alternative (Appendix D).
- 2.5.9.7.2 Alternatives 2,3,4,5,6 and 7 offer no additional protection to human health and the environment over Alternative 1, No Further Action for Sector 6B since the annual number of potential OE exposures was estimated at 0 during the risk assessment for the No Further Action alternative (Appendix D). In addition, no ordnance was recovered from this sector during the OE Engineering Design. As a result, no additional analysis of this alternative will be performed on this sector.

- 2.5.9.7.3 Implementability: For The Natural Brush/Forest Area A, this type of OE investigation is both technically and administratively feasible and the services and materials necessary to implement such an investigation are readily available. The property owner may be less receptive to this alternative over Alternative 3 since it would potentially impact future land use and significantly alter current conditions (for example, wildlife habitat may be destroyed by brush clearing effort and erosion of soil could be enhanced).
- 2.5.9.7.4 Cost: The cost to perform this alternative at the Natural Brush/Forest Area A is summarized in Appendix G. This alternative will take approximately 11.5 weeks to complete. Additional details on how the costs were derived and the assumptions used in preparing the cost estimate are included in Appendix G.

### 2.5.9.8 Alternative 8: Surface Clearance of OE With Subsurface Clearance of Entire Area to a Depth of Four Feet

- 2.5.9.8.1 Effectiveness: No additional protection to human health and the environment is afforded to The Natural Brush/Forest Area A by the implementation of the OE Surface Clearance with Subsurface Clearance of Entire Area to Depth of Four Feet alternative. The risk assessment estimated the annual number of potential OE exposures at 2 for both the OE Surface Clearance with Subsurface Clearance of Entire Area to Depth of One Foot alternative and the OE Surface Clearance with Subsurface Clearance of Entire Area to Depth of Four Feet alternative (Appendix D). As a result, the OE Surface Clearance with Subsurface Clearance of Entire Area to Depth of Four Feet will not be further evaluated.
- 2.5.9.8.2 Alternatives 2,3,4,5,6,7 and 8 offer no additional protection to human health and the environment over Alternative 1, No Further Action for Sector 6B since the annual number of potential OE exposures was estimated at 0 during the risk assessment for the No Further Action alternative (Appendix D). In addition, no ordnance was recovered from this sector during the OE Engineering Design. As a result, no additional analysis of this alternative will be performed on this sector.

### 2.6 COMPARATIVE ANALYSES AND RANKING OF RECOMMENDED REMEDIAL ACTION ALTERNATIVES

### 2.6.1 Introduction

2.6.1.1 After the evaluation of each of the alternatives on their ability to achieve the action objectives has been completed, a comparative analysis is conducted to determine their relative performance in each of the evaluation criteria. The purpose of this comparison is to determine the advantages and disadvantages of each of the alternatives relative to one another. This analysis is used to support the selection of the preferred action alternative. Again, this comparative analysis has been divided among the sectors to ensure the selected alternative is the most appropriate based on the results of previous investigations at each of these sectors.

- 2.6.1.2 Each alternative will be ranked relative to all of the other alternatives for Effectiveness, Implementability, and Cost. Alternatives that were eliminated during the initial screening will not be ranked. The comparative analysis will only include the alternatives that remained after the screening.
- 2.6.1.3 The rankings under the Effectiveness category involve the consideration of four criteria. A ranking value of 1 through the total number of alternatives that remained after the screening for each of the sectors will be assigned to each alternative, with 1 representing the best alternative in the category. A weighted factor is assigned to each criterion based on its importance. The Safety criterion will be weighting by a factor of three (i.e., the ranking values will be multiplied by three). The Long-Term Effectiveness and the Short-Term Effectiveness criteria will each be weighted by a factor of two. Ranking values will be totaled for each alternative and the one with the lowest overall score will be the preferred alternative. The Effectiveness criteria ranking values will be subtotaled to determine the overall Effectiveness ranking. The Effectiveness category will account for 40 percent of the total weight of the alternatives.
- 2.6.1.4 The rankings under the Implementability category involve the consideration of three criteria. A ranking value of 1 through the total number of alternatives that remained after the screening for each of the sectors will be assigned to each alternative with 1 representing the best alternative in the category. A weighted factor is assigned to each criterion based on its importance. Each criterion under the Implementability category is of equal importance and will all be weighted by a factor of one. The Implementability criteria ranking values will be subtotaled to determine the overall Implementability ranking. The lowest overall score indicates the most implementable alternative. The Implementability category will account for 30 percent of the total weight of the alternatives.
- 2.6.1.5 The cost estimates for each alternative, details on how the costs were derived, and the assumptions used in preparing the cost estimate are included in Appendix C. The cost estimate for each alternative is an order of magnitude estimate which gives a general estimate of the level of effort that will be required to complete each alternative. The Cost category will account for 30 percent of the total weight of the alternatives. Actual cost numbers will be used to calculate the score of each alternative.
- 2.6.1.6 The Effectiveness scores will account for 40 percent of the overall total score. Implementability and Cost will each account for 30 percent of the overall total score. In order to calculate each alternative's percentage of the total overall score under the Effectiveness criteria, the alternative score will be divided by the total score of all alternatives then multiplied by 100 to calculate the weight of that alternative under Effectiveness, then multiplied by 40% to calculate the weight of the alternative as part of the total overall score. For Implementability and Cost the final score is multiplied by 30%.

### 2.6.2 Pine Farm (Sector 2)

#### 2.6.2.1 Effectiveness

- 2.6.2.1.1 The three alternatives that remained after the screening of alternatives for Pine Farm were subjectively rank ordered under the Effectiveness category. The results of this ranking process are outlined in Table 2.1. Based on this analysis, the OE removal to a depth of one foot alternative ranked the highest in the Effectiveness category. The logic behind the rankings within each of the criteria is provided in the following paragraphs.
- 2.6.2.1.2 Safety: In this criterion the OE removal to a depth of one foot alternative provides the best overall protection with each of the other alternatives providing decreasing levels of protection. For that reason, each alternative was ranked in order with the OE removal to a depth of one foot alternative being ranked number 1 and the No Further Action alternative being ranked last.
- 2.6.2.1.3 Compliance with ARARs: The remaining potential alternatives comply with ARARs. However, since potential impact to the environment due to the investigation is a concern, the No Further Action alternative was ranked number 1.
- 2.6.2.1.4 Long-Term Effectiveness: In this criterion the OE removal to a depth of one foot alternative provides for the best long-term effectiveness with each of the other alternatives providing for decreasing degrees of long-term effectiveness. For this reason, the three alternatives were rank ordered from 1 to 3 with the OE removal to a depth of one foot alternative being ranked number 1 and the No Further Action alternative being ranked last.
- 2.6.2.1.5 Short-Term Effectiveness: In this criterion the surface clearance alternative provides for the greatest immediate protection for the workers and local citizens in the implementation of the alternative. In addition, other than the No Further Action alternative, this alternative will take the shortest amount of time to implement of the three alternatives examined. The No Further Action alternative is ranked last because it offers the least effectiveness.

### 2.6.2.2 Implementability

- 2.6.2.2.1 The three remaining alternatives were also rank ordered within each of the three criteria within the Implementability category based on a subjective analysis of the merits of each alternative. The results of this analysis are presented in Table 2.2. Based on this analysis, the No Further Action alternative ranked the highest in the Implementability category. The logic behind the rankings within each criterion is provided in the following paragraphs.
- 2.6.2.2.2 Technical Feasibility: Each of the alternatives was rank ordered with the No Further Action alternative being the easiest to implement and surface clearance and OE removal in areas to a depth of one foot alternative as being increasingly more difficult to implement from a technical standpoint.

### Täble 2.1

# Former Camp Croft Army Training Facility OE Investigation/Engineering Design Effectiveness Criteria Application Sector 2, Pine Farm

|   | EFFECTIVENESS   |                       |   |  | ]     |      |
|---|---|-----------------------|---|--|-------|------|
| ALTERNATIVES  | Safety (Protection of Human Health and Environment <sup>(1)</sup> | Compliance with ARARs | Long-Term<br>Effectiveness <sup>(2)</sup> | Short-Term<br>Effectiveness <sup>(2)</sup> | SCORE | RANK |
| No further action   | 3(9)  | 1                     | 3(6)                                      | 3(6)                                       | 22    | 3    |
| Institutional controls  |   |                       |   |  |       |      |
| Surface clearance of OE   | 2(6)  | 2.5                   | 2(4)                                      | 1(2)                                       | 14.5  | 2    |
| Institutional controls and surface clearance of OE                                    |   |                       |   |  |       |      |
| Surface clearance of OE with<br>subsurface clearance of<br>selected areas to one foot |   |                       |   |  |       |      |
| Surface clearance of OE with subsurface clearance of selected areas to four feet      |   | <del>-</del>          |   |  |       |      |
| Surface clearance of OE with subsurface clearance of entire area to one foot          | 1(3)  | 2.5                   | 1(2)                                      | 2(4)                                       | 11.5  | 1    |
| Surface clearance of OE with subsurface clearance of entire area to four feet         |   |                       |   |  |       |      |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

(1) Multiplied by 3

(2) Multiplied by 2

Example: 3(9) indicates a ranking of 3 for the alternative under a category weighted at 3.

# Table 2.2 Former Camp Croft Army Training Facility OE Investigation/Engineering Design Implementability Criteria Application Sector 2, Pine Farm

|   | <del> </del>             | IMPL                          | EMENTABILITY                                     |                   | 7            |               |
|---|--------------------------|-------------------------------|--|-------------------|--------------|---------------|
| ALTERNATIVES  | Technical<br>Feasibility | Administrative<br>Feasibility | Availability of Services & Materials             | Property<br>Owner | SCORE        | RANK          |
| No further action   | 1                        | 1                             | 1  |                   | <del> </del> |               |
| Institutional controls  |                          |                               | <del>                                     </del> | 3                 | 6            | 1             |
| Surface clearance of OE   | 2                        | 2                             |  |                   |              | <del></del>   |
| Institutional controls and  | <del>-</del>             |                               | 2  | 2                 | [ 8 ]        | 2             |
| surface clearance of OE   |                          |                               |  |                   |              |               |
| Surface clearance of OE with subsurface clearance of selected areas to one foot |                          |                               |  |                   |              | <del></del> - |
| Surface clearance of OE with ubsurface clearance of elected areas to four feet  |                          |                               |  |                   |              | <del></del>   |
| surface clearance of OE with ubsurface clearance of entire rea to one foot      | 3                        | 3                             | 3  | 1                 | 10           | 3             |
| urface clearance of OE with ubsurface clearance of entire rea to four feet      |                          |                               |  |                   |              |               |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

- 2.6.2.2.3 Administrative Feasibility: Each of the five alternatives was seen as being increasingly more difficult to implement from an administrative standpoint in that as additional excavations are conducted, intrusive operations would warrant increasing administrative burden.
- 2.6.2.2.4 Availability of Services and Materials: The No Further Action alternative is the easiest to implement since relatively few services and no materials are required. The remaining two alternatives would require additional services and materials.
- 2.6.2.2.5 On the basis of input from the property owner during the OE Engineering Design field work, each of the alternatives was rank ordered the Surface Clearance of OE with Subsurfaces Clearance of Entire Area to One Foot depth alternative was selected as the most desired.

### 2.6.2.3 Cost

As detailed in Table 2.3, the least expensive alternative to implement is the No Further Action alternative while the most expensive alternative is the OE removal to a depth of one foot alternative.

### 2.6.2.4 Overall Ranking The Pine Farm

The overall ranking of the three alternatives for the Pine Farm is presented in Table 2.3. This overall ranking is based on the rankings within the three categories - Effectiveness, Implementability, and Cost - discussed above. Using the same methodology as was used in the previous analyses the preferred alternative for the Pine Farm is the one with the lowest overall score. Based on this analysis, the No Further Action alternative with limited removal action is the preferred alternative for the Pine Farm.

### 2.6.3 Landfill and Compost A Areas (Sector 3)

### 2.6.3.1 Effectiveness

- 2.6.3.1.1 The one alternative that remained after the screening of alternatives for Landfill and Compost A Areas was the Surface Clearance of OE with Subsurface Clearance of Selected Areas to Four Feet. The results of this ranking process are outlined in Table 2.4. Based on this analysis, this is the only alternative that is effective for this sector considering current and future landfill operations within the sector and is, therefore, ranked best in the Effectiveness category. The logic behind the rankings within each of the criteria is provided in the following paragraphs.
- 2.6.3.1.2 Safety: For this criterion, Alternative 6 remained the only alternative ranked.
- 2.6.3.1.3 Compliance with ARARs: For this criterion, Alternative 6 remained the only alternative ranked.

Table 2.3
Selection Criteria Application
Sector 2 (Pine Farm)
Former CCATF OE Engineering Design

| ALTERNATIVES  | DEDDOOR STRAIDS AND | ****                | <del></del> |       |      |
|---|---------------------|---------------------|-------------|-------|------|
|   | EFFECTIVENESS (1)   | IMPLEMENTABILITY(2) | COST(3)     | TOTAL | RANK |
| Alt ! - No Further Action   | 18.3                | 7.5                 | 5.0         | 30.8  |      |
| Alt 2 - Institutional Controls  |                     |                     |             |       |      |
| Alt 3 - Surface clearance of OE   | 12.1                | 10.0                | 10.0        | 32.1  | 2    |
| Alt 4 - Institutional Controls and Surface<br>Clearance of OE   |                     |                     |             |       |      |
| Alt 5 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of One<br>Foot  |                     |                     |             |       |      |
| Alt 6 - Surface Clearance of )E with Subsurface<br>Clearance of Selected Areas to a Depth of Four<br>Feet |                     | •                   |             |       |      |
| Alt 7 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of One Foot.      | 9.6                 | 12.5                | 15.0        | 37.1  | 3    |
| Alt 8 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of Four Feet.     |                     |                     |             |       |      |
| TOTAL   | 40                  | 30                  | 30          | 100   |      |

Note: Ranking from best to worst; best=!

- (1) Effectiveness is 40% of the total
- (2) Implementability is 30% of the total
- (3) cost is 30% of the total
- -- Alternative screened out



# Former Camp Croft Army Training Facility OE Investigation/Engineering Design Effectiveness Criteria Application Sector 3, Landfill and Composting Area

|  |   | <del> </del>          |   |  | _     |                |
|--|---|-----------------------|---|--|-------|----------------|
| ·  |   | EFFECTIVI             | ENESS                                     |  | ]     |                |
| ALTERNATIVES   | Safety (Protection of Human Health and Environment <sup>(1)</sup> | Compliance with ARARs | Long-Term<br>Effectiveness <sup>(2)</sup> | Short-Term<br>Effectiveness <sup>(2)</sup> | SCORE | RANK           |
| No further action  |   |                       |   |  |       |                |
| Institutional controls   |   |                       |   | -  |       | <del>-</del> - |
| Surface clearance of OE  |   |                       |   |  |       |                |
| Institutional controls and surface clearance of OE                               |   |                       |   | <del></del>                                |       |                |
| Surface clearance of OE with subsurface clearance of selected areas to one foot  |   |                       |   |  |       |                |
| Surface clearance of OE with subsurface clearance of selected areas to four feet | 1(3)  | 1                     | 1(2)                                      | 1(2)                                       | 8     | 1              |
| Surface clearance of OE with subsurface clearance of entire area to one foot     |   |                       |   |  |       |                |
| Surface clearance of OE with subsurface clearance of entire trea to four feet    |   |                       |   |  |       |                |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

(1) Multiplied by 3

(2) Multiplied by 2

Example: 1(3) indicates a ranking of 3 for the alternative under a category weighted at 3.

- 2.6.3.1.4 Long-Term Effectiveness: For this criterion, Alternative 6 remained the only alternative ranked.
- 2.6.3.1.5 Short-Term Effectiveness: For this criterion, Alternative 6 remained the only alternative ranked.

### 2.6.3.2 Implementability

- 2.6.3.2.1 The results of this analysis are presented in Table 2.5. Based on this analysis, Alternative 6 is the only remaining alternative that is implementable and Table 2.5 therefore ranked. The logic behind the rankings within each of the criteria is provided in the following paragraphs.
- 2.6.3.2.2 Technical Feasibility: For this criterion, Alternative 6 remained the only alternative ranked.
- 2.6.3.2.3 Administrative Feasibility: For this criterion, Alternative 6 remained the only alternative ranked.
- 2.6.3.2.4 Availability of Services and Materials For this criterion, Alternative 6 remained the only alternative ranked.
- 2.6.3.2.5 On the basis of the degree of acceptance expressed by the property owner surface clearance of OE with subsurface clearance of selected areas to four feet was the only alternative ranked.

### 2.6.3.3 Cost

As detailed in Table 2.6, Alternative 6 was the only alternative ranked for this criterion.

## 2.6.3.4 Overall Ranking The Landfill and Compost A Area

This overall ranking is based on the rankings within the three categories - Effectiveness, Implementability, and Cost - discussed above. Using the same methodology as was used in the previous analyses the preferred alternative for the Landfill and Compost A Area is the one with the lowest overall score. Based on this analysis the surface clearance of OE with subsurface clearance to a depth of four feet is the only remaining alternative and therefore, is the preferred alternative for the uncleared portion of the Landfill and Compost A Area (Table 2.6).

### 2.6.4 Pond Area (Sector 4)

### 2.6.4.1 Effectiveness

2.6.4.1.1 The three alternatives that remained after the screening of alternatives for Pond Area were rank ordered under the Effectiveness category. The results of this ranking process are outlined in Table 2.7. Based on this analysis, the Surface Clearance of OE and Subsurface Clearance of Entire Area to four feet alternative ranked the highest

# Former Camp Croft Army Training Facility OE Investigation/Engineering Design Implementability Criteria Application Sector 3, Landfill and Composting Area

|  |                          | IMPL                          | EMENTABILITY                         | ]                 |          |      |
|--|--------------------------|-------------------------------|--------------------------------------|-------------------|----------|------|
| ALTERNATIVES   | Technical<br>Feasibility | Administrative<br>Feasibility | Availability of Services & Materials | Property<br>Owner | SCORE    | RANK |
| No further action  |                          |                               |                                      | <del>-</del> -    |          |      |
| Institutional controls   |                          |                               |                                      |                   | <u> </u> |      |
| Surface clearance of OE  |                          | <u>-</u>                      |                                      |                   | <u> </u> |      |
| Institutional controls and surface clearance of OE                               |                          |                               |                                      |                   |          |      |
| Surface clearance of OE with subsurface clearance of selected areas to one foot  |                          |                               |                                      |                   |          |      |
| Surface clearance of OE with subsurface clearance of selected areas to four feet | 1                        | 1                             | 1                                    | 1                 | 4        | 1    |
| Surface clearance of OE with subsurface clearance of entire area to one foot     |                          | - <u>-</u>                    |                                      | <b>-</b> -        |          |      |
| Surface clearance of OE with subsurface clearance of entire area to four feet    |                          |                               |                                      |                   |          |      |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

Table 2.6
Selection Criteria Application
Sector 3 (Landfill and Composting Areas)
Former CCATF OE Engineering Design

| ALTERNATIVES  | EFFECTIVENESS (1) | IMPLEMENTABILITY(2) | COST(3) | TOTAL | The same |
|---|-------------------|---------------------|---------|-------|----------|
| Alt 1 - No Further Action   |                   | 1(2)                |         | TOTAL | RANK     |
| Alt 2 - Institutional Controls  |                   |                     |         |       | •-       |
| Alt 3 - Surface clearance of OE   | ••                | •-                  |         | ••    |          |
| Alt 4 - Institutional Controls and Surface<br>Clearance of OE   |                   |                     |         |       |          |
| Alt 5 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of One<br>Foot  |                   |                     |         |       |          |
| Alt 6 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of Four<br>Feet | 40.00             | 30.00               | 30.0    | 100   | 1        |
| alt 7 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of One Foot.      |                   |                     |         |       | ~ -      |
| Alt 8 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of Four Feet.     |                   |                     |         |       | - •      |
| TOTAL   | 40                | 30                  | 30      | 100   |          |

Note: Ranking from best to worst; best=1

- (1) Effectiveness is 40% of the total
- (2) Implementability is 30% of the total
- (3) cost is 30% of the total
- -- Alternative screened out

## Table 2.7

# Former Camp Croft Army Training Facility OE Investigation/Engineering Design Effectiveness Criteria Application Sector 4, Pond Area

|   |   | EFFECTIVI             | ENESS                                     | ······                                     | 7     |      |
|---|---|-----------------------|---|--|-------|------|
| ALTERNATIVES  | Safety (Protection of<br>Human Health and<br>Environment <sup>(1)</sup> | Compliance with ARARs | Long-Term<br>Effectiveness <sup>(2)</sup> | Short-Term<br>Effectiveness <sup>(2)</sup> | SCORE | RANK |
| No further action   |   |                       |   | <u> </u>                                   |       |      |
| Institutional controls  |   |                       |   |  |       |      |
| Surface clearance of OE   | 3(9)  | 2                     | 3(6)                                      | 3(6)                                       | 23    | 3    |
| Institutional controls and surface clearance of OE                                    |   |                       |   |  |       |      |
| Surface clearance of OE with<br>subsurface clearance of<br>selected areas to one foot |   |                       |   |  |       |      |
| Surface clearance of OE with subsurface clearance of selected areas to four feet      |   |                       |   |  |       |      |
| Surface clearance of OE with subsurface clearance of entire area to one foot          | 1.5(4.5)  | 2                     | 2(4)                                      | 2(4)                                       | 14.5  | 2    |
| Surface clearance of OE with subsurface clearance of entire wea to four feet          | 1.5(4.5)  | 2                     | 1(2)                                      | 1(2)                                       | 10.5  | 1    |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

(1) Multiplied by 3

Multiplied by 2 (2)

Example: 3(9) indicates a ranking of 3 for the alternative under a category weighted at 3.

in the Effectiveness category. The logic behind the rankings within each of the criteria is provided in the following paragraphs.

- 2.6.4.1.2 Safety: In this criterion the Surface Clearance of OE and Subsurface Clearance of Entire Area to one foot and to four feet alternatives provide the best overall protection with the Surface Clearance of OE alternative providing decreasing levels of protection. For this reason, each alternative was ranked in order with the OE removal to a depth of one foot and to four feet alternatives being ranked best and the Surface Clearance of OE alternative being ranked last.
- 2.6.4.1.3 Compliance with ARARs: The remaining potential alternatives comply with ARARs. Since impact to vegetation cover and endangered species is of little concern in this area (because most of this area has already been cleared of brush by the property owner), these alternatives were equally ranked.
- 2.6.4.1.4 Long-Term Effectiveness: In this criterion the OE removal to a depth of four feet alternative provides for the best long-term effectiveness with each of the other alternatives providing for decreasing degrees of long-term effectiveness. For this reason, the three alternatives were rank ordered from 1 to 3 with the OE removal to a depth of four feet alternative being ranked number 1 and the Surface Clearance of OE alternative being ranked last.
- 2.6.4.1.5 Short-Term Effectiveness: In this criterion the Surface Clearance of OE and Subsurface Clearance of Entire Area to Four Feet alternative provides for the greatest immediate protection for the workers and local citizens in the implementation of the alternative. Each of the other alternatives provides decreasing degree of short term effectiveness. Currently, Pond construction activities involve excavation of soil from depths greater than one foot and OE items may be present at depths greater than one foot therefore, OE removal alternatives for the entire site to a depth of four feet would be more appropriate. The Surface Clearance of OE alternative is ranked last because it does not offer adequate protection on a short term basis.

### 2.6.4.2 Implementability

- 2.6.4.2.1 The three remaining alternatives were also rank ordered within each of the three criteria within the Implementability category based on a subjective analysis of the merits of each alternative. The results of this analysis are presented in Table 2.8. Based on this analysis, the Surface Clearance of OE (alternative 3) and the Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot (alternative 7) ranked the highest in the Implementability category. The logic behind the rankings within each criterion is provided in the following paragraphs.
- 2.6.4.2.2 Technical Feasibility: The Surface Clearance of OE alternative and the Subsurface clearance of Entire Area to a Depth of One Foot alternatives are the easiest to implement since limited intrusive operations is warranted. Therefore, these alternatives were equally scored. The Surface Clearance of OE with Subsurface Clearance of Entire

# Table 2.8 Former Camp Croft Army Training Facility OE Investigation/Engineering Design Implementability Criteria Application Sector 4, Pond Area

|   |                          | IMPL                          | EMENTABILITY                         |                   | 1     |      |
|---|--------------------------|-------------------------------|--------------------------------------|-------------------|-------|------|
| ALTERNATIVES  | Technical<br>Feasibility | Administrative<br>Feasibility | Availability of Services & Materials | Property<br>Owner | SCORE | RANK |
| No further action   | ]                        |                               |                                      |                   |       |      |
| Institutional controls  |                          |                               |                                      |                   |       |      |
| Surface clearance of OE   | 1.5                      | 1.5                           | 1.5                                  | 3                 | 7.5   |      |
| Institutional controls and surface clearance of OE                                    |                          |                               |                                      |                   |       |      |
| Surface clearance of OE with<br>subsurface clearance of<br>selected areas to one foot |                          | <del></del>                   |                                      |                   |       |      |
| Surface clearance of OE with subsurface clearance of selected areas to four feet      |                          |                               |                                      |                   |       |      |
| Surface clearance of OE with subsurface clearance of entire area to one foot          | 1.5                      | 1.5                           | 1.5                                  | 2                 | 6.5   | 1    |
| Surface clearance of OE with subsurface clearance of entire area to four feet         | 3                        | 3                             | 3                                    | 1                 | 10    | 3    |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

Area to a Depth of Four Feet ranked last because the alternative is more difficult to implement from a technical standpoint.

- 2.6.4.2.3 Administrative Feasibility: The Surface Clearance of OE alternative and the Subsurface clearance of Entire Area to a Depth of One Foot alternatives are the easiest to implement since limited intrusive operations is warranted. Therefore, these Clearance of Entire Area to a Depth of Four Feet ranked last because the alternative is more difficult to implement from an administrative standpoint in that as additional excavations are conducted, intrusive operations would warrant increasing administrative burden.
- 2.6.4.2.4 Availability of Services and Materials: The Surface Clearance of OE alternative and the Subsurface clearance of Entire Area to a Depth of One Foot alternatives are the easiest to implement since limited intrusive operations is warranted. Therefore, these alternatives were equally scored. The Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of Four Feet ranked last because increase in level of services and materials is warranted.
- 2.6.4.2.5 On the basis of input from the major property owner during the OE Engineering Design field work each of the alternatives was rank ordered with Surface Clearance of OE with Subsurface clearance of Entire Area to Four Feet alternative as the most desired.

#### 2.6.4.3 Cost

As detailed in Table 2.9, the least expensive alternative to implement is the Surface Clearance of OE alternative while the most expensive alternative is the Surface Clearance of OE and Subsurface Clearance of Entire Area to a depth of Four Feet alternative.

### 2.6.4.4 Overall Ranking The Pond Area

The overall ranking of the three alternatives for the Pond Area is presented in Table 2.9. This overall ranking is based on the rankings within the three categories - Effectiveness, Implementability, and Cost - discussed above. Using the same methodology as was used in the previous analyses the preferred alternative for the Pond Area is the one with the lowest overall score. Based on this analysis the Surface Clearance of OE with Subsurface Clearance of Entire Area to a depth of One Foot alternative is the preferred alternative for Pond Area.

### 2.6.5 Natural Brush/Forest Areas (Sector 6A and 6B)

#### 2.6.5.1 Effectiveness

2.6.5.1.1 As discussed in Subsection 2.5.9, the Natural Brush/Forest Areas sector was divided into subsectors A and B as depicted on Figure 1.11. Due to the negligible risk for exposure to UXO, as calculated during the risk assessment the No Further Action alternative was selected for Sector 6B.

Table 2.9
Selection Criteria Application
Sector 4 (Pond Area)
Former CCATF OE Engineering Design

| Other Other Obergn  |                   |                     |         |       |      |  |  |  |  |
|---|-------------------|---------------------|---------|-------|------|--|--|--|--|
| ALTERNATIVES  | EFFECTIVENESS (1) | IMPLEMENTABILITY(2) | COST(3) | TOTAL | RANK |  |  |  |  |
| Alt 1 - No Further Action   |                   |                     |         |       |      |  |  |  |  |
| Alt 2 - Institutional Controls  |                   |                     | ••      |       |      |  |  |  |  |
| Alt 3 - Surface clearance of OE   | 19.2              | 9.4                 | 5.0     | 33.5  | 2    |  |  |  |  |
| Alt 4 - Institutional Controls and Surface<br>Clearance of OE   |                   |                     |         |       |      |  |  |  |  |
| Alt 5 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of One<br>Foot  |                   |                     |         |       |      |  |  |  |  |
| Alt 6 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of Four<br>Feet |                   |                     | •       |       |      |  |  |  |  |
| Alt 7 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of One Foot.      | 12.1              | 8.1                 | 10.0    | 30.2  | 1    |  |  |  |  |
| Alt 8 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of Four Feet.     | 8.7               | 12.5                | 15.0    | 36.2  | 3    |  |  |  |  |
| TOTAL   | 40                | 30                  | 30      | 100   |      |  |  |  |  |

Note: Ranking from best to worst; best=1

- (1) Effectiveness is 40% of the total
- (2) Implementability is 30% of the total
- (3) cost is 30% of the total
- -- Alternative screened out

The three alternatives that remained after the screening of alternatives for the Natural Brush/Forest Areas (Sector 6A) were subjectively rank ordered under the Effectiveness category. The results of this ranking process are outlined in Table 2.10. Based on this analysis, Surface Clearance of OE with Subsurface Clearance of Entire Area to One Foot alternative ranked the highest in the Effectiveness category. The logic behind the rankings within each of the criteria is provided in the following paragraphs.

- 2.6.5.1.2 Safety: In this criterion the surface clearance of OE and OE removal to a depth of one foot alternative provides the best overall protection with each of the other alternatives providing decreasing levels of protection. For this reason, each alternative was ranked in order with the OE removal to a depth of one foot alternative being ranked number 1 and the No Further Action alternative being ranked last.
- 2.6.5.1.3 Compliance with ARARs: The remaining potential alternatives comply with ARARs. However, since impact to vegetation cover and potential endangered species is a concern, the No Further Action with limited removal action alternative was ranked number 1. Ranking of other alternatives considered the degree of brush clearing effort that would be required and the possible extent of soil disturbance that would result from intrusive operations. On the basis of this consideration, Surface Clearance of OE with Subsurface Clearance of Entire Area to One Foot alternative ranked last.
- 2.6.5.1.4 Long-Term Effectiveness: In this criterion the Surface Clearance of OE with Subsurface Clearance of Entire Area to One Foot alternative provides for the best long-term effectiveness with each of the other alternatives providing for decreasing degrees of long-term effectiveness. For this reason, the three alternatives were rank ordered from 1 to 3 with the surface clearance of OE and removal to a depth of one foot alternative being ranked number 1 and the No Further Action alternative being ranked last.
- 2.6.5.1.5 Short-Term Effectiveness: In this criterion the Surface Clearance of OE alternative provides for the greatest immediate protection for the workers and local citizens in the implementation of the alternative. The No Further Action alternative is ranked last because it offers the least degree of effectiveness on a short term basis.

### 2.6.5.2 Implementability

- 2.6.5.2.1 The three remaining alternatives were also rank ordered within each of the three criteria within the Implementability category based on a subjective analysis of the merits of each alternative. The results of this analysis are presented in Table 2.11. Based on this analysis, the No Further Action alternative ranked the highest in the Implementability category. The logic behind the rankings within each criterion is provided in the following paragraphs.
- 2.6.5.2.2 Technical Feasibility: Each of the alternatives was rank ordered with the No Further Action alternative being the easiest to implement and the Surface Clearance of OE with Subsurface clearance of Entire Area to a Depth of One Foot alternative considered the most difficult to implement from a technical standpoint.

## Table 2.10

# Former Camp Croft Army Training Facility OE Investigation/Engineering Design Effectiveness Criteria Application Sector 6A, Natural Brush/Forest Area

|   |   | EFFECTIVI             | ENESS                                     | ]  |       |      |
|---|---|-----------------------|---|--|-------|------|
| ALTERNATIVES  | Safety (Protection of<br>Human Health and<br>Environment <sup>(1)</sup> | Compliance with ARARs | Long-Term<br>Effectiveness <sup>(2)</sup> | Short-Term<br>Effectiveness <sup>(2)</sup> | SCORE | RANK |
| No further action   | 3(9)  | 1                     | 3(6)                                      | 3(6)                                       | 22    | 3    |
| Institutional controls  |   |                       |   |  |       |      |
| Surface clearance of OE   | 2(6)  | 2                     | 2(4)                                      | 1(2)                                       | 14    | 2    |
| Institutional controls and surface clearance of OE                                    |   |                       |   |  |       |      |
| Surface clearance of OE with<br>subsurface clearance of<br>selected areas to one foot |   |                       |   |  |       |      |
| Surface clearance of OE with subsurface clearance of selected areas to four feet      |   |                       |   |  |       |      |
| Surface clearance of OE with subsurface clearance of entire area to one foot          | 1(3)  | 3                     | 1(2)                                      | 2(4)                                       | 12    | 1    |
| Surface clearance of OE with subsurface clearance of entire area to four feet         |   |                       |   |  |       |      |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

(1) Multiplied by 3

(2) Multiplied by 2

Example: 3(9) indicates a ranking of 3 for the alternative under a category weighted at 3.

# Table 2.11 Former Camp Croft Army Training Facility OE Investigation/Engineering Design Implementability Criteria Application Sector 6A, Natural Brush/Forest Area

|  | <u> </u>                 | IMPL                          |                                      | ]                 |       |      |
|--|--------------------------|-------------------------------|--------------------------------------|-------------------|-------|------|
| ALTERNATIVES   | Technical<br>Feasibility | Administrative<br>Feasibility | Availability of Services & Materials | Property<br>Owner | SCORE | RANK |
| No further action  | 1                        | 1                             | 1                                    | 3                 | 6     |      |
| Institutional controls   |                          |                               |                                      |                   | "     | 1    |
| Surface clearance of OE  | 2                        | 2                             | 2                                    |                   |       |      |
| Institutional controls and surface clearance of OE                               |                          |                               |                                      |                   |       |      |
| Surface clearance of OE with subsurface clearance of selected areas to one foot  |                          |                               |                                      | ••                |       |      |
| Surface clearance of OE with subsurface clearance of selected areas to four feet |                          |                               |                                      |                   |       |      |
| Surface clearance of OE with absurface clearance of entire rea to one foot       | 3                        | 3                             | 3                                    | 1                 | 10    | 3    |
| surface clearance of OE with ubsurface clearance of entire rea to four feet      |                          |                               |                                      |                   |       |      |

Note: Ranking from best to worst; best = 1

-- Alternative screened out

- 2.6.5.2.3 Administrative Feasibility: Each of the three alternatives except the No Further Action alternative was seen as being increasingly more difficult to implement from an administrative standpoint in that as additional investigations are conducted, intrusive operations would warrant increasing administrative burden.
- 2.6.5.2.4 Availability of Services and Materials: The No Further Action alternative is the easiest to implement since relatively few services and materials are required. The two remaining alternatives; Surface Clearance of OE and Surface Clearance of OE with Subsurface Clearance of OE of Entire Area to a Depth of One Foot, would require increasing level of effort and are therefore, ranked numbers 2 and 3 respectively.
- 2.6.5.2.5 On the basis of input from one of the property owners during the OE Engineering Design field work each of the alternatives was rank ordered with the Surface Clearance of OE with Subsurface Clearance of Entire Area to One Foot as the most desired.

### 2.6.5.3 Cost

As detailed in Table 2.12, the least expensive alternative to implement is the No Further Action alternative while the most expensive alternative is the Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot alternative.

## 2.6.5.4 Overall Ranking The Natural Brush/Forest Areas (Sector 6A)

The overall ranking of the three alternatives for the Natural Brush/Forest Area is presented in Table 2.12. This overall ranking is based on the rankings within the three categories - Effectiveness, Implementability, and Cost - discussed above. Using the same methodology as was used in the previous analyses the preferred alternative for the Natural Brush/Forest Areas is the one with the lowest overall score. Based on this analysis the No Further Action alternative is the preferred alternative for Natural Brush/Forest Areas (Sector 6A).

### 2.7 RECOMMENDED REMEDIAL ACTION

This section presents the recommended removal actions for the eight sectors investigated during the OE Investigation/Engineering Design for OOU6 at the former CCATF. These sectors include the Roads and Site Operation Building, the Pine Farm, the Landfill and Compost A Areas, the Pond Area, the Wetlands/Stream Area, the Natural Brush/Forest Area (Sectors 6A and 6B), EE/CA Grid 87, and the Uninvestigated Area. Table 2.13 depicts the sectors of the site, the alternatives evaluated for each sector, and the associated reduction of annual OE exposures and cost related to the implementation of each alternative, the preferred alternative based on overall ranking and the recommended removal action.

Table 2.12
Selection Criteria Application
Sector 6A (Natural Brush/Forest Area)
Former CCATF OE Engineering Design

| ALTERNATIVES  | EFFECTIVENESS (1) | IMPLEMENTABILITY(2) | COST(3) | TOTAL | D.A.N.E. |
|---|-------------------|---------------------|---------|-------|----------|
| Alt 1 - No Further Action   | 18.3              | 7.5                 |         |       | RANK     |
| Alt 2 - Institutional Controls  |                   |                     | 5.0     | 30.8  | 1        |
| Alt 3 - Surface clearance of OE   | 11.7              | 10.0                | 10.0    | 31.7  | 2        |
| Alt 4 - Institutional Controls and Surface<br>Clearance of OE   |                   |                     |         |       |          |
| Alt 5 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of One<br>Foot  |                   |                     |         |       |          |
| Alt 6 - Surface Clearance of OE with Subsurface<br>Clearance of Selected Areas to a Depth of Four<br>Feet |                   |                     |         |       |          |
| Alt 7 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of One Foot.      | 10.0              | 12.5                | 15.0    | 37.5  | 3        |
| Alt 8 - Surface Clearance of OE with Subsurface<br>Clearance of Entire Areas to a Depth of Four Feet.     |                   |                     |         |       |          |
| TOTAL   | 40                | 30                  | 30      | 100   |          |

Note: Ranking from best to worst; best=1

- (1) Effectiveness is 40% of the total
- (2) Implementability is 30% of the total
- (3) cost is 30% of the total
- -- Alternative screened out

Table 2.13 Summary of Removal Alternatives for OOU6 Sectors Former CCATF OE Engineering Design

| 1    | SECTOR                        | REMOVAL ALTERNATIVES  | REDUCTION<br>OF EXPOSURES<br>PER YEAR (I) | RANKING (2) | RECOMMENDED<br>ALTERNATIVE | COST<br>RANKING | SELECTEI<br>REMOVAL<br>ACTION |
|------|-------------------------------|---|---|-------------|----------------------------|-----------------|-------------------------------|
| ·    | Roads and Site Operation Bldg | Alt I - No Further Action   | 0   | NA          |                            |                 | ACTION                        |
| 2    | Pine Farm                     | Alt I - No Further Action (3)   |   | 114         | NA                         | NA              | NA                            |
|      |                               | Alt 3 - Surface clearance of OE   | 4   | 1           | x                          |                 | 40                            |
|      |                               |   | 2   | 2           | ^                          | 1               | X (4)                         |
|      |                               | Alt 7 - Surface Clearance of OE with  |   |             |                            | 2               |                               |
|      |                               | Subsurface Clearance of Entire Areas to a<br>Depth of One Foot.                   |   |             |                            |                 |                               |
| 3    | I amiffil and G               |   | 1   | 3           |                            | ,               |                               |
| -    | Landfill and Compost A Areas  | Alt 6 - Surface Clearance of OE with  | 0   | **.         |                            | 3               |                               |
|      |                               | Subsurface Clearance of Selected Areas to a                                       | ď   | NA          | X                          | NA              | X (5)                         |
|      |                               | Depth of Four Feet  |   |             |                            |                 | Α.                            |
| 4    | Pond Area                     | Alt 3 - Surface clearance of OE   |   |             |                            |                 |                               |
|      |                               |   | 2   | 2           |                            | f               |                               |
|      |                               | Alt 7 - Surface Clearance of OE with<br>Subsurface Clearance of Entire Areas to a |   |             |                            | 1               |                               |
|      |                               | Depth of One Foot.  | _   |             |                            |                 |                               |
|      |                               | Alt 8 - Surface Clearance of OE with  | 0   | 1           | X                          | 2               |                               |
|      |                               | Subsurface Clearance of Entire Areas to a   |   |             |                            | L               |                               |
|      |                               | Depth of Four Feet  | •   |             |                            |                 |                               |
| 5    | Wetlands                      |   | 0   | 3           |                            | 3               | x                             |
|      |                               | Alt 1 - No Further Action   | NA  | NA          |                            |                 | А                             |
| A.   | Natural Brush/Forests - A     | Alt 1 - No Further Action (6)   |   | 1441        | x                          | NA              | X                             |
|      |                               | Alt 3 - Surface clearance of OE   | 7   | 1           | x                          |                 | <b>(T</b> )                   |
|      |                               | Alt 7 - Surface Clearance of OE with  | 4   | 2           | Α.                         | 1<br>2          | X <sup>(7)</sup>              |
|      |                               | Subsurface Clearance of Entire Areas to a   |   |             |                            | 2               |                               |
|      |                               | Depth of One Foot.  | _   |             |                            |                 |                               |
| В.   | Natural Brush/Forests - B     |   | 2   | 3           |                            | 3               |                               |
|      | - man in any rolests - B      | Alt I - No Further Action   | 0   | MA          |                            | ,               |                               |
| : (n | Per OE Cert Analysis          |   | -   | NA          | X                          | NA              | х                             |

- (2) Ranking from best to worst; best=1 For ranking purposes;
- -Effectiveness is 40% of the total
- Implementability is 30% of the total
- Cost is 30% of the total
- (3) with limited Surface and subsurface clearing to a depth of 1 ft in a half acre area for construction of future storage barn within sector. (4) with emphasis on surface and subsurface clearance of OE to a depth of 4 ft.
- (5) With emphasis on surface and subsurface clearance to a depth of 4 ft at Compost A and Landfill 2
- (6) With limited surface clearing of OE in Compost B (approx 4% of entire sector)
- (7) with emphasis on surface and subsurface clearance of OE at Compost B to a depth of 4 ft.

## 2.7.1 Recommended Remedial Action for the Wetlands/Streams, Roads and Site Operations Building, and the Uninvestigated Area

The recommended removal action for the Wetlands/Streams (Sector 5), the Roads and Site Operations Building (Sector 1), and the Uninvestigated Area (Sector 8) is No Further Action (Alternative 1). No sampling grids were established within these sectors during the OE Engineering Design. Due to potential destruction of ecological habitats in the Wetlands/Stream sector expressed by regulatory agencies, no remedial alternatives were evaluated for the sector. The Uninvestigated Area sector may need future investigation to ascertain potential ordnance density within the sector. However, extrapolation of adjacent sector data to the Uninvestigated Area sector was deemed unreliable and beyond the scope of this project. The Roads and Site Operations Building sector was cleared of OE items to a depth of four feet during the 1994/1995 TCRA. Therefore, implementation of any of the eight alternatives evaluated for the OOU6 sectors (except No Further Action) is not warranted. In addition, the risk assessment estimated the current annual number of exposures to OE items within this sector at 0. Therefore, No Further Action (Alternative 1) was selected for this sector.

### 2.7.2 Recommended Remedial Action for the Pine Farm

The recommended removal action for the Pine Farm (Sector 2) is the No Further Action alternative (Alternative 1). This alternative includes a limited removal action surface clearance and subsurface clearance of OE to a depth of one foot, at the site for the future storage barn, an area of approximately 0.5 acre. In addition, the alternative will include an educational program for the property owner, landfill operators, and recreational users to ensure that they are aware of the potential hazards posed by OE. This alternative satisfies the removal action goal of reducing the explosive threat associated with OE by minimizing the OE exposure and safety hazards to the public. The No Further Action alternative satisfies the evaluation criteria because it will meet all of the response objectives in an acceptable amount of time, pose limited threat, is readily implementable both from a technical and administrative standpoint, and can be accomplished at a reasonable cost. This alternative was selected after evaluating the eight alternatives separately under each criterion. Following this screening of the alternatives, the six remaining alternatives were then compared to each other to arrive at a ranking of the alternatives within each criterion. The rankings of the alternatives under the three categories of effectiveness, implementability, and cost were then compared to each other and resulted in an overall ranking of these remaining alternatives. The No Further Action alternative was selected as the highest ranked alternative.

## 2.7.3 Recommended Remedial Action for Landfill and Compost A Area (Sector 3)

The recommended removal action for the Landfill and Compost A Areas is surface clearance of OE with subsurface clearance of selected area to a depth of four feet (Alternative 6). The total area to be cleared is estimated at 5 acres and this area is in the southern half portion of Landfill 1. The remaining portions of this sector have been cleared of OE during the TCRA and are therefore, excluded from this proposed remedial action. The Subsurface Clearance of Selected Area to a Depth of Four Feet alternative

satisfies the evaluation criteria because it will meet all of the response objectives in an acceptable amount of time, pose limited threat, is readily implementable both from a technical and administrative standpoint, and can be accomplished at a reasonable cost. This alternative was selected after evaluating the eight alternatives separately under each criterion. Following this screening of the alternatives, only one alternative remained and was therefore ranked accordingly. The ranking considered the following categories; effectiveness, implementability, and cost. No comparison of alternatives was made because only one alternative remained. The Surface Clearance of OE with Subsurface Clearance of Selected Area to a Depth of Four Feet remained as the selected alternative.

### 2.7.4 Recommended Remedial Action for the Pond Area (Sector 4)

The recommended removal action for the Pond Area is Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot(Alternative 7). This alternative satisfies the removal action goal of reducing the explosive threat associated with OE by minimizing the OE exposure and safety hazards to the public. The Subsurface Clearance of Entire Area to a Depth of One Foot alternative satisfies the evaluation criteria because it will meet all of the response objectives in an acceptable amount of time, pose limited threat, is readily implementable both from a technical and administrative standpoint, and can be accomplished at a reasonable cost. This alternative was selected after evaluating the eight alternatives separately under each criterion. Following this screening of the alternatives, the three remaining alternatives were then compared to each other to arrive at a ranking of the alternatives within each criterion. The rankings of the alternatives under the three categories of effectiveness, implementability, and cost were then compared to each other and resulted in an overall ranking of the three remaining alternatives. The Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth of One Foot alternative was selected as the highest ranked alternative.

# 2.7.5 Recommended Remedial Action for Natural Brush/ Forest Areas (Sectors 6A and 6B)

2.7.5.1 The recommended removal action for the Natural/Brush Forest Area (Sector 6A) is the No Further Action alternative (Alternative 1). This alternative includes a limited removal action, involving surface clearance of OE at the proposed site for compost B. The estimated annual OE exposures are 7 for this sector. Therefore, the explosive threat associated with OE to the public is low. The No Further Action alternative satisfies the evaluation criteria because it will meet all of the response objectives in an acceptable amount of time, pose limited threat, is readily implementable both from a technical and administrative standpoint, and can be accomplished at a reasonable cost. This alternative was selected after evaluating the eight alternatives separately under each criterion. Following this screening of the alternatives, the three remaining alternatives were then compared to each other to arrive at a ranking of the alternatives within each criterion. The rankings of the alternatives under the three categories of effectiveness, implementability, and cost were then compared to each other and resulted in an overall ranking of the three remaining alternatives. The No Further action alternative was selected as the highest ranked alternative.

2.7.5.2 The recommended removal action for the Natural/Brush Forest Area (Sector 6B) is the No Further Action alternative (Alternative 1). The estimated annual OE exposures are 0 for this sector. Therefore, the explosive threat associated with OE to the public is a minimum.

### 2.8 LIMITATIONS OF THIS REPORT

The Army is continuing its comprehensive OE investigation of OOU6 within the former CCATF. The Army will issue a final report following completion of all investigation activities at the CCATF. The Army's cleanup activities in connection with this site have been conducted under the provisions of CERCLA and DERP, and do not constitute an admission of any kind by the United States. The results of the investigations described above are based on the best available information to date and should not be taken as a representation that other OE items could not be discovered at the site in the future.

### 2.9 ARMY ASSURANCES

Consistent with its obligations under CERCLA and DERP, the Army remains responsible for any additional response actions necessary in relation to OE items associated with prior DoD activities at OOU6 within CCATF. Based on the results of the geophysical survey and intrusive investigations performed to date, the Army concludes that all appropriate and necessary steps have been taken to protect the public safety in regards to the eight sectors. In addition, the Army concludes that additional steps will be necessary to protect the public safety in relation to The Pine Farm, Landfills and Compost A Areas, Pond and Natural Brush Forest Areas. Additional actions will be conducted in these areas to address the remaining OE contamination. If additional OE items are discovered at the site in the future, the Army is committed by CERCLA and DERP to take such cleanup actions as may be necessary to address the OE items. In the event that OE items are found in the future, the individual locating the OE item should call 911 to ensure that the OE item is handled and disposed in a safe manner. Future land development work at OOU6, should be coordinated with the Corps of Engineers to ensure that adequate measures are taken to protect public safety.

# 2.10 RECONSIDERATION OF RECOMMENDATIONS WITH THE RESTORATION ADVISORY BOARD (RAB)

- 2.10.1 Upon submission of the recommendations of the OE Engineering Design at OOU6 to the Restoration Advisory Board and subsequent review with the Corps of Engineers, reconsideration of these recommendations was warranted. Specific factors governing reconsideration are:
  - The type of ammunition (105mm projectiles) discovered/recovered at OOU6;
  - · Penetration potential of the ammunition; and
  - Potential future land use with regard to intrusive activities to depth below two feet.

2.10.2 On the basis of these factors, the Corps of Engineers have opted to implement removal action (OE clearing) to a depth of four feet below land surface at the recommended portions at Sectors at OOU6. In this regard, all OE clearing work specified in the recommendations will involve surface and subsurface clearance of OE items to a depth of four feet at OOU6.

# SECTION 3 DESIGN REPORT

### 3.1 DESIGN DRAWINGS

The Engineering Design drawings are provided in this section (see drawing attached to this report). These drawings include:

- 1. Title Sheet, Location Map, and Drawing Index (Drawing No. G-1)
- 2. Existing Conditions (Drawing No. G-2)
- 3. Property Ownership (Drawing No G-3)
- 4. Site Operations Map (Drawing No. G-4)
- 5. Remediation Sectors Map (Drawing No. G-5)
- Clearing Plan (Drawing No. C-1)
- 7. Civil Details (Drawing No. C-2)

### 3.2 SPECIFICATIONS

Specifications applicable to the Engineering Design are provided in this section. As desired by the CEHNC, a classic design submittal is not required for this Design Report section. In this regard, the Specifications presented in this Section have been prepared consistent with the format of the entire OE Engineering Design Report. Standard design requirements have been modified to relate to OE remediation work and presented as applicable.

### 3.2.1 Summary of Remediation Work

3.2.1.1 To implement the most appropriate response action to reduce the public risk posed by OE/UXO at OOU6 remediation work is planned for the Pine Farm (Sector 2-PFS), Landfill and Compost A Area (Sector 3-LFS), the Pond Area (Sector 4-PNDS) and the Natural Brush/Forest Area A - NATA. The goal of the removal action described for each of these sectors is to minimize the public's exposure to potential hazardous OE items and to ensure acceptable level of protection to the public and the environment. On the basis of the results of the risk evaluations using the OECert model and the subsequent evaluation of removal alternatives in this OE Engineering Design report, remediation work is not recommended for the remaining sectors (Roads and Site Operation Building Area - Sector 1, and the Natural Brush/Forest Area B - Sector 6-NATB) within OOU6 except for the Grid 87 Area (Sector 7-87S) for which remediation work was recommended in the EE/CA report (ESE, 1996). During the preparation of this report, CEHNC has completed remediation of the Pond Area (Sector 4-PNDS). This action was warranted to minimize

OE exposure and safety hazards to workers on site since construction of the pond was in progress. Reference to the Pond Area in this section of the report documents the removal action recommended prior to implementation of a removal action in this sector.

- 3.2.1.2 The approved removal action for the Pine Farm (Sector 2-PFS) is surface clearance and subsurface clearance of OE to a depth of four feet below grade at the site of the future storage barn. The total area to be cleared is approximately 0.5 acre. No further action is proposed for the remainder of this sector. This remediation work will satisfy the removal action goal of reducing the explosive threat associated with OE in this sector by minimizing the OE exposure and safety hazards to workers at the future storage barn.
- 3.2.1.3 The approved removal action for the Landfill and Composting Areas (Sector 3-LFS) is surface clearance of OE with subsurface clearance of selected areas to a depth of four feet (Alternative 6). The total area to be cleared is estimated at 15 acres and this area includes the southern half portion of Landfill 1 (including Compost A) and Landfill 2. The remaining portions of this sector have been previously cleared of OE during the TCRA and are therefore, excluded from this proposed remedial action. The Subsurface Clearance of the Entire Area to a Depth of Four Feet will meet all of the response objectives in an acceptable amount of time, pose limited threat to the public, and is implementable both from a technical and administrative standpoint.
- 3.2.1.4 The approved removal action for the Pond Area (Sector 4-PNDS) is surface clearance of OE with subsurface clearance to a depth of four feet. The total area to be cleared is estimated at 24.86 acres (total acreage for the sector). The exact area to be occupied by the pond water is currently unknown and has not been deducted. When this information is available the actual pond area may be excluded from the remediation effort because this portion of the sector would be underwater. Activities planned for the Pond area by the property owner preclude intrusive activities within the pond. If adjustment is made to the area to be investigated by excluding the area covered by the pond water, a reduction in the level of effort and the estimated cost for this removal action would be warranted. This remediation work will satisfy the removal action goal of reducing the explosive threat associated with OE in this sector by minimizing the OE exposure and safety hazards to the public. At the time of publication of this report, remediation work has been completed at the Pond Area. Therefore, the Pond Area is not included in the Clearing Plan (Drawing No. C-1).
- 3.2.1.5 The approved removal action for the Natural Brush/Forest Area A (Sector 6A-NATA) is surface clearance of OE with subsurface clearance to a depth of four feet at Compost B. The total area to be cleared is approximately five acres. No further action is proposed for the remainder of this sector. This remediation work will satisfy the removal action goal of reducing the explosive threat associated with OE in this sector by minimizing the OE exposure and safety hazards to workers at the proposed Compost B Area.

### 3.2.2 Site Description

- 3.2.2.1 OOU6 is located within the boundaries of the former Camp Croft, but outside Croft State Park. It is situated off of Mimosa Lake Road and is adjacent to the south edge of U.S. Highway 176 bypass. OOU6 contains an area of 397.80 acres, as per the Division of Tract 'A' "Whitestone Tract" boundary survey map, dated January 24, 1994. The property is privately owned and is used for agricultural and industrial purposes including timber farming and industrial landfills. The topography of the site consists of rolling hills and small ravines. The elevation of the site ranges from a low elevation of approximately 560 feet above sea level in the extreme western portions of OOU6 near Isons Creek to elevations exceeding 700 feet above sea level in the northern portion of OOU6 and at Red Hill (former target area). The former CCATF is located in the Piedmont Physiographic Province of northern South Carolina. The area is underlain by fine-grained soils and saprolite which mantle bedrock. Bedrock in the area consists of Proterozoic to Lower Paleozoic hornblende gneiss, biotite schist, and granitic pegmatite.
- 3.2.2.2 Soils at the site consist of red-brown sandy silt to sandy clay. These grade into a moderately dense saprolite, as observed in excavations and road cuts near the current landfill area. The saprolite appears to contain abundant quartz, mica, and kaolinized feldspar; in general the color was dark red-brown to dark brown and dark gray. The saprolite exposures also exhibited strong remnant foliation and gneissic banding; the weathered pegmatites cut the foliation at shallow angles. A few subvertical, black-stained fracture zones were also visible in the exposures.
- 3.2.2.3 OOU6 encompasses all of the property owned by Dr. W. Brownlee Lowry (MD) and portions of properties owned by J. Larry Faulkenberry & Almond Forest Products, Inc., Robert E. Lee, Dr. Glenn L. Scott (MD), Neil Robinette, Timothy M. Chastain, Margie F. Purser, and Milliken & Co.
- 3.2.2.4 Area and Sector Description. Based on a combination of similarities in characteristics regarding physical site features, land use, historic attributes, locations of OE items recovered, and previously investigated/remediated areas, several sectors were delineated within OOU6. Specifically, the site was divided into eight sectors. Drawing No. G-5 depicts the location and configuration of the sectors. The rationale for dividing the OOU6 into sectors was to provide a basis by which the risk evaluation was conducted for the site. Each of the sectors was analyzed separately both for the risk assessment as well as the potential removal action alternatives due to the differences in the field investigation findings and differences in the current and anticipated use of each of these areas.
- 3.2.2.5 Due to overlap among portions of several of the sectors, a sector rank was established for determination of areal expanse of sectors and sectors to which OE Engineering Design sampling grids were assigned. This ranking is depicted on Figure 1-7 which shows Sector 7-87S overlapping both Sector 2-PFS and Sector 3-LFS.
- 3.2.2.6 TCRA Roads and Site Operations Building. This sector consists of existing site roads (1.76 acres) and the landfill operations building (0.08 acre) cleared of

- ordnance during the TCRA (Figure 1-7). Currently a total of 7.07 acres of roadways exist within OOU6 for which OE clearance has not been conducted by representatives of the Corps of Engineers. These roadways are considered as "paths" and are evaluated as part of the sectors in which they reside. No information is available as to whether the County Roads (Highway 176 bypass and Deerwood Drive) within OOU6 were cleared, but since they are currently paved their acreage was excluded from Sector 1.
- 3.2.2.7 Pine Farm (PFS). This sector includes a large portion of the northern and north/central portions of the site that are thickly forested with pine trees. Many of these trees are planted in rows and are of similar size and height (about 10 feet). Based on visual observation of maturity, the pine trees were planted during the same general timeframe (about 5-7 years old). The Pine Farm areas cover a total of 38.94 acres (Figure 1-7). Forty-three sampling grids were established within this sector.
- 3.2.2.8 Landfills and Compost A Areas (LFS). An industrial landfill is operated by one of the property owners (Dr. Lowry) within the OOU6 site. The landfill layout at OOU6 includes Landfill 1 and Landfill 2. Landfill 1 is currently active along with several adjacent composting areas. The area for subsequent expansion of landfill operations (Landfill 2) has been defined by the property owner and approved by the Spartanburg County and the state regulatory agency. Landfill 1, the proposed Landfill 2, and the associated composting areas cover a total of 21.31 acres (Figure 1-7). Much of these areas were previously investigated/cleared of ordnance during the TCRA, therefore no investigation was planned for this area. However, concerns for inadequate coverage during the previous investigation in this area warranted CEHNC to request additional sampling grids in this sector. In this regard, eleven sampling grids were established to provide additional characterization data.
- 3.2.2.9 **Pond (PNDS)**. Development of a manmade pond is currently underway by one of the property owners (Dr. Lowry) within OOU6. During the OE Engineering Design fieldwork, heavy brush clearing and grading work were in progress around the intended pond area. The grading effort could potentially influence a change in the topography at this portion of OOU6. Most of the vegetation cover and many of the trees were removed. The Pond Area encompasses approximately 24.86 acres (Figure 1-7). Forty-three sampling grids were established within the sector.
- 3.2.2.10 Wetlands (WLSS). A number of small streams and wetlands traverse OOU6. Many of these streams are intermittent and flow only during periods of significant rainfall. However, several perennial streams and wetland areas are present on the site. Five of these areas, although not contiguous, were grouped together as a sector. The combined acreage of these geomorphological features is approximately 3.91 acres. No sampling grids were established within this sector due to regulatory restrictions.
- 3.2.2.11 Natural Brush/Forest Area A and Area B (NATA/NATB). A large portion of OOU6 is undeveloped. Much of this area is covered by sparse to moderate hardwood forest and natural brush. Pine farms have not been cultivated although there is evidence of past hardwood timber harvests. The two extensive land areas falling into this category are generally located in the northern and south/central portions of OOU6,

respectively. The proposed Compost B is located in the Natural Brush/Forest Area A. The total acreage of these areas is approximately 169 acres (Figure 1-7). To adequately cover this sector, 150 sampling grids were established.

- 3.2.2.12 **EE/CA Grid 87 (87S)**. This sector was defined to coincide with EE/CA Grid 87. This grid was previously investigated and deemed contaminated with ordnance. Grid 87 overlaps small portions of the Pine Farm and the Landfill and Composting Areas. The overlap areas are excluded from the acreage of the Pine Farm and the Landfill. EE/CA Grid 87 is comprised of approximately 30.17 acres (Figure 1-7). The approved Work Plan excluded this sector from the OE Engineering Design investigation since it had reportedly been significantly investigated during the EE/CA. However, during the OE Engineering Design field work four sampling grids were established at the request of CEHNC to investigate a small area at the southeast portion of Grid 87.
- 3.2.2.13 Uninvestigated Area. This area consists of all property within OOU6 for which access was not provided by the respective property owners during the OE Engineering Design field work. This area consists of approximately 114.92 acres of land and includes the parcel of land owned by Milliken & Co. lying west of Lake Mimosa Road and the three small parcels of privately owned land lying immediately east of Kennedy Creek. Table 3.1 presents a summary of the acreage for all sectors.

TABLE 3.1 SECTOR ACREAGE OOU6 OE ENGINEERING DESIGN

| Sector No. | Design Code    | Area Description   | Acreage |
|------------|----------------|--|---------|
| 1          | Non assigned   | Roads and Site Operations Building -   | 1.84    |
|            |                | TCRA Cleared Roads   | 1.76    |
|            |                | TCRA Cleared Building Area   | 0.08    |
| 2          | PFS            | Pine Farm  | 38.94   |
| 3          | LFS            | Landfills and Compost A  Landfill 1, Proposed Landfill 2, and Compost A Areas  | 21.31   |
| 4          | PNDS           | Pond Area  | 24.86   |
| 5          | WLSS           | Wetlands/Streams   | 3.91    |
| 6          | NATA &<br>NATB | Natural Brush/Forest   | 168.39  |
| 7          | 87s            | EE/CA Grid 87  | 30.17   |
| 8          | Non assigned   | Uninvestigated Area (Access Denied) Milliken and Company Property (Western Portion of Site)  J. Faulkenberry & Almond Forest Products Property Timothy M. Chastain Property (East Portion of Site) Robert E. Lee Property (East Portion of Site) Other small tract property owners | 114.92  |

### 3.2.3 Special Clauses (site access, environmental protection, work hours, etc.)

The remediation work shall be performed to ensure compliance with the National Environmental Policy Act (NEPA) and Army Regulation (AR) 200-2, so that activities at the site minimize potential adverse environmental impacts. At a minimum, the ERPP provided in the work plan for the Engineering Design shall be applicable. The ERPP will comply with all applicable South Carolina state and local statutes and regulations.

### 3.2.4 Safety, Health, and Emergency Response

- 3.2.4.1 Safety, Health, and Emergency Response are critical aspects of the remediation effort to be implemented at OOU6. In this regard, applicable specifications and requirements to ensure adherence to proper safety, health and emergency procedures must be addressed. To accomplish this task, a Site Safety and Health Plan (SSHP) must be prepared by the Contractor. A Site Safety and Health Plan (SSHP) outlines and specifies the work practices and procedures needed to ensure protection of site personnel, the environment, and the local community during the conduct of the remediation work at Ordnance Operable Unit 6 (OOU6). All site activities will be performed in accordance. with this SSHP and applicable U.S. Army Engineering and Support Center, Huntsville (CEHNC), federal, state, and local regulations. The SSHP will include the following:
  - Safety and Health Organization
  - Task Description
  - Hazard Identification
  - Training Plans
  - Site Control and Layout
  - Hygiene and Sanitation
  - Site Safety Procedures
  - Emergency Response Plan
  - Preparation of Logs, Reports, and Record Keeping
- 3.2.4.2 The SSHP must have prior approval by CEHNC before commencement of remediation work at the site. The safety and health of onsite personnel and the local community will be ensured by following all applicable requirements and regulations listed in the following publications:
  - a. Occupational Safety and Health Administration (OSHA) General Industry Standards, 29 Code of Federal Regulations (CFR) 1910;
  - b. OSHA Construction Standards, 29 CFR 1926;
  - U.S. Army Corps of Engineers EM 385-1-1;
  - d. Army Regulation (AR) 385-40 (with CEHNC Supplement 1), Accident Reporting and Records;

- e. U.S. Environmental Protection Agency (EPA) Hazardous Waste Management, 40 CFR 260-276, latest edition;
- f. Engineering Regulation (ER) 385-1-92, Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosives (OE) Activities, 18 March 1994.
- 3.2.4.3 In addition to the publications and regulations previously listed, the following documents shall be reviewed and used as reference material in the preparation of the SSHP:
  - a. U.S. Department of Defense (DOD) 4145.26-M, Contractors' Safety Manual for Ammunition and Explosive.
  - b. Occupational Safety and Health Guidance for Hazardous Waste Site Activities, U.S. Department of Health and Human Services, National Institute of Occupational Safety and Health (NIOSH), October 1985; and
  - c. Threshold Limit Values and Biological Exposure Indices for 1993-94, American Conference of Governmental Industrial Hygienists (ACGIH), 1993.

### 3.2.5 Temporary Construction Facility

- 3.2.5.1 This section covers requirements for provision, maintenance, and removal of temporary on-site facilities necessary to perform the Work. The Contractor shall provide temporary facilities including but not limited to field offices, explosives storage magazines, fencing and gate, ordnance demolition areas, and utilities required to perform the Work.
  - 3.2.5.2 This section includes:
    - Requirements of Regulatory Agencies
    - Submittals
    - Construction of Utilities
    - Construction Aids
    - Roads and Parking
    - Construction Equipment Staging Area
    - Fences and Gates
    - Security Office
    - Special Controls
    - Field Offices
    - Magazine Storage Areas
    - Removal of Construction Facilities and Temporary Controls
- 3.2.5.2.1 REQUIREMENTS OF REGULATORY AGENCIES: The Contractor shall make all necessary arrangements, secure all required permits, and pay all fees and

charges associated with obtaining, installing, maintaining and removal of the facilities and controls as required by local, state and federal authorities.

- 3.2.5.2.2 SUBMITTALS: Drawings and Data: Contractor shall submit the following shop drawings, catalog data, brochures, material lists and other data for all temporary support and process facilities in accordance with
  - A. Temporary Utility Submittals:
    - 1. Copies of approval of local utility companies for Contractor's intended temporary utility plans.
  - B. Temporary Construction Submittals:
    - Layout of Magazine Storage Area and Ordnance Demolition Area.
  - C. Temporary Control Submittals:
    - 1. Copies of permits and approvals for construction from governing local, state, and federal agencies.
    - 2. Plan for disposal of OE items and metallic scrap, including agreements with the intended disposal authority.
  - D. Safety, Protection, and Security Submittals:
    - 1. Safety requirements are described in Section 3.2.4 SAFETY, HEALTH, AND EMERGENCY RESPONSE REQUIREMENTS.
    - 2. Copies of survey notes taken to establish control points for structures affected by the work, and layout of survey control points.
    - 3. Security plan.
- 3.2.5.2.3 CONSTRUCTION OF UTILITIES: Contractor shall furnish all material and services necessary to distribute utilities described below in 3.2.5.2.3-A, 3.2.5.2.3-B, 3.2.5.2.3-C, and 3.2.5.2.3-D, to the locations where Work is performed.

### A. Power and Lighting:

- 1. Power: The Contractor shall determine, at his own expense, the type and amount of power available and make arrangements for obtaining all necessary electric service required for Contractor's operations under the Contract. The Contractor shall schedule all necessary arrangements for power supply to the Site such that no delay in the execution of the Work in accordance with the Contract Period occurs. The Contractor shall provide temporary power to perform the Work in a safe and satisfactory manner.
- Construction Lighting: All Work conducted under conditions of insufficient daylight shall be suitably lighted to ensure proper work and to afford adequate facilities for inspection and safe working conditions. (No intrusive work shall be conducted under insufficient daylight.)

- 3. Approval of Electrical Connection: All temporary connections for electricity shall be subject to approval by the Corps of Engineers and the power company representative and shall be removed in like manner at Contractor's expense at completion of the Work.
- 4. Separation of Circuits: Unless otherwise permitted by the Corps of Engineers, circuits separate from lighting circuits shall be used for all power purposes.
- Construction Wiring: All wiring for temporary electric light and power shall conform to the requirements of Subpart K of the OSHA Standards for Construction.

### B. Water Supply:

- 1. General: Potable water shall be used for equipment washdown, construction and sanitary uses. Contractor shall be responsible for obtaining and maintaining in operational conditions an adequate water supply to the Site.
- Contractor shall be solely responsible for the adequate functioning of Contractor's water supply system and solely liable for any claims arising from the use of same, including discharge, waste, or water therefrom.
- 3. Removal of Water Connections: Before final acceptance of the Work on the project, all temporary connections and piping installed by the Contractor shall be entirely removed, and all affected improvements shall be restored to their original condition or better and to the satisfaction of the Corps of Engineers.

### C. Sanitation:

- Toilet Facilities: Fixed or portable chemical toilets shall be provided wherever needed for the use by personnel on Site including CEHNC personnel, Contractor, and Subcontractor personnel. Toilets at Site shall conform to the requirements of Subpart D, Section 1926.51 of the OSHA Standards for Construction.
- 2. Sanitary And Other Organic Waste: All waste and refuse generated from sanitary facilities provided by Contractor, and trash from all field office and any other source related to Contractor's operations shall be disposed of away from the Site in a manner satisfactory to the Corps of Engineers and in accordance with all laws and regulations pertaining thereto. Disposal of all such waste shall be at the Contractor's expense.

### D. Communications:

1. Telephone Services: Contractor shall provide and maintain at all times during the progress of the Work, at Contractor's own expense, telephones in good working order at the Contractor's field office. Such telephone shall be connected to an established exchange for local and long distance service.

3.2.5.2.4 CONSTRUCTION AIDS. Comply with OSHA requirements and applicable laws, ordinances, rules, regulations, and orders pertaining to construction machinery and equipment, hoists, cranes, scaffolding, staging, materials handling facilities, tools, appliances, and other construction aids. OSHA requirements shall govern where mandatory; otherwise, comply with most stringent requirements.

### 3.2.5.2.5 ROADS AND PARKING

### A. Transportation Facilities:

1. Contractor shall make the necessary arrangements for delivery of donor explosives to and from the Site.

### B. Access Road and Parking:

- Contractor shall construct new or improve the existing unpaved road to the Site, as necessary, to provide access to the Site during the performance of the Work.
- 2. The area designated on the Drawing G-4 SITE OPERATIONS MAP, as the Site Operations Building area shall be used for parking for the Contractor's personnel.
- 3. Contractor shall maintain all roads and parking areas in good repair. Maintenance activities for the access road and parking areas shall include dust suppression to eliminate nuisance conditions and placement and compaction of gravel where damage or erosion has occurred. Also, Contractor shall maintain proper grade along and across the roadway to minimize erosion or ponding.

### 3.2.5.2.6 CONSTRUCTION EQUIPMENT STAGING AREA

- A. The Contractor shall use the area designated as Additional Staging Area on Drawing G-4 SITE OPERATIONS MAP for equipment staging. The Contractor shall notify the Corps of Engineers of obstructions not shown or readily apparent by visual inspection of the staging area. If such obstructions adversely affect Contractor's operations, relocation will be considered.
- B. See MATERIALS AND EQUIPMENT for additional information regarding material and equipment handling and storage.

#### 3.2.5.2.7 FENCES AND GATES

- A. The only area requiring construction of a fence and gates at OOU6 is the Magazine Storage Area. The fence and access gates to the Magazine Storage Area were constructed during the OE Engineering Design field work. Therefore, no specification structures are needed in this Design Report.
- B. The Contractor shall post warning signs on the fence and the gate in accordance with the local, state and federal requirements.

### 3.2.5.2.8 SECURITY OFFICE

- A. The Contractor shall obtain, install, and maintain a modular type mobile structure for use by the Security personnel during the Remedial Action. Potable water and communication equipment (telephone) must be available in the mobile structure.
- B. The Contractor shall install and maintain power, lighting, air conditioning and heating for the Security Office during the performance of Work.
- C. The Contractor shall remove the Security Office at the conclusion of the Remedial Action.

### 3.2.5.2.9 SPECIAL CONTROLS

A. Noise Control: Comply with OSHA requirements for allowable noise levels during construction. Prevent noise disturbance to adjoining property owners and the public.

#### 3.2.5.2.10 FIELD OFFICES

- A. The Contractor shall install and maintain two field offices: one office for himself and one office for the Corps of Engineers. The locations of the field offices shall be adjacent to the Site Operations Building shown on Drawing G-4 SITE OPERATIONS MAP.
- B. The field offices shall be trailer-type mobile structures. The Contractor shall locate these structures to the locations as shown on the Drawings.
- C. The field offices shall be available for use prior to the start of Work at the Site, and shall remain on the Site through completion of the project.
- D. The Contractor shall provide all equipment, materials and services necessary to collect, store and dispose all liquid and solid waste generated by the use of the field offices in accordance with all applicable state and local regulations and requirements.
- E. The Contractor shall furnish utilities such as power, lighting, water, air conditioning, heating and telephone at each of the field offices. The Contractor shall maintain all utilities at the field offices in good working order throughout the performance of Work.

### 3,2,5,2,11 MAGAZINE STORAGE AREAS

- A. Fence construction work has been completed at the site for the Magazine Storage Area. Earthwork such as clearing, grading, grubbing, and stripping as required were performed prior to installation of the fence.
- B. The Magazine Storage Areas shall be locked at all times and an inventory of items stored within the magazines shall be conducted at the beginning and end of each day.

- C. The Contractor shall segregate and store OE items delivered from the excavations within the Magazine Storage Areas. Demolition of UXO shall be conducted periodically in order to minimize cumulative explosive weight in storage.
- D. The Contractor shall dispose of scrap metal and OE fragments rendered safe to a smelter facility at no cost to the government. Documentation of delivery shall be provided to the Corps of Engineers.
- 3.2.5.2.12 REMOVAL OF CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS. The Contractor shall remove all construction materials, facilities, and temporary controls used in the performance of this work from the site upon completing the work. Arrangements shall be made with CEHNC and the property owner to ensure minimum impact to site operations (Landfill operations) during demobilization efforts.

### 3.2.6 Ordnance Demolition Site(s) and Operations

- 3.2.6.1 To the extent practical, areas selected for ordnance demolition will be located within topographic lows such as site ravines. In this manner the ravine sidewalls will provide additional protection to personnel and reduce visual and audible impacts to nearby residents. In addition, this measure may allow for some reduction in the buffer zone that is recommended for this effort. Demolition sites will be selected/prepared and approved by CEHNC on an as-needed basis. When demolition of ordnance in place is required, appropriate measures will be taken to minimize fragmentation, such as placement of sandbags around and on top of the ordnance item.
- 3.2.6.2 An Explosive Management Plan shall be prepared and included in the work plan for the remediation work. The plan shall include procedures required for transportation and storage of donor explosives for demolition work, UXO safety concerns and precautions, disposal operations and transportation.
- 3.2.6.3 Requirements of the Army Technical Manual 60A 1-1-4 concerning Protection of Personnel Properties shall be reviewed and applicable portions of this manual for the desired remediation work shall be followed. Demolition operations shall be performed consistent with the requirements of the Technical Manual (TM) 60A-1-1-31 for EOD Demolition Operation.

### 3.2.7 Brush Clearance

3.2.7.1 This section covers the work necessary for all brush cutting activities necessary for preparation of parcels for OE clearance. Included will be removal of surface debris, removal of shrubs, removal of selected trees, and disposal of debris and refuse.

### 3.2.7.2 This section includes:

- Definition
- Materials
- Preparation

- Clearing
- Disposal of Materials
- 3.2.7.3 The Contractor shall provide labor, equipment, tools, materials, and services needed to accomplish all site brush clearance and debris disposal activities described herein and shown on the Drawings.
- 3.2.7.4 DEFINITION Brush Clearing: Clearing shall consist of the removal of all brush and shrub vegetation to a height of less than 6 inches above ground surface within the sector of concern, unless specific instructions are provided in advance to protect endangered species/plants habitats or at the property owners request. Trees less than 3 inches in diameter at the base that could impede progress of the geophysical survey shall be felled and stockpiled in an area designated by the Corps of Engineers or agreed to by the property owner(s). Trees greater than 3 inches in diameter within a sector of concern shall be trimmed of branches to a height of 6 feet above ground surface. If cutting of a tree with diameter greater than 3 inches at the base is required to avoid interference with geophysical or intrusive efforts, approval must be requested from the Corps of Engineers before proceeding with this activity. The tree will be felled and sectioned using chain saws. The sectioned tree will be staged in the location designated for brush debris. The stockpiled trees and other vegetation designated for removal, including brush, grass, vegetative matter and other unsuitable materials within the project limits shall be disposed of in a manner satisfactory to the Corps of Engineers.
- 3.2.7.5 MATERIALS. No materials shall be provided to the Contractor by the Corps of Engineers to perform brush clearance activities.

### 3.2.7.6 PREPARATION.

- 3.2.7.6.1 The Contractor shall verify that existing plant life designated by the Corps of Engineers to remain within the area specified for clearing, is tagged or otherwise identified.
- 3.2.7.6.2 The Corps of Engineers will furnish property access agreements with property owners for conducting the work specified herein in the areas within the OOU6 boundary.
- 3.2.7.7 CLEARING. Limits of Clearing: All areas requiring clearing are described in Section 3.2.1 of the Design report and shown on Drawing G-5 REMEDIATION SECTORS MAP and Drawing C-1 CLEARING PLAN.

## 3.2.7.7.1 Clearing Operation.

- 1. The Contractor shall cut trees, shrubs, bushes and other vegetation within 6 inches of the ground surface.
- The Contractor shall take precautions to prevent damage to the existing structures, mature trees, and vegetation that are designated to remain on the Site, tagged or otherwise identified. Where damage occurs, it shall be the

- responsibility of the Contractor to notify the Corps of Engineers in a timely manner and to restore the damaged structure solely at the Contractor's cost to the satisfaction of the Corps of Engineers.
- 3. In cutting timber growth, the Contractor shall make cuts such that all trees are felled into the area to be cleared. Care shall be exercised not to damage existing trees or vegetation outside of the clearing limits.
- Wounds caused by trimming or topping activities to the trees that are designated to remain shall be properly treated to protect the trees from insects and decay.
- 3.2.7.8 DISPOSAL OF MATERIALS. The Contractor shall be responsible for the disposal of all clearing debris. If desired by property owners, clearing debris may be left on-site. The Contractor shall comply with all applicable local, state and federal regulations, guidances and policies for the disposal of clearing debris. The Contractor shall be responsible for the lawful and safe disposal of all clearing debris.

### 3.2.8 Site Restoration

- 3.2.8.1 A variety of hybrid grasses have been cultivated by the property owner throughout the site for decorative purposes, erosion control, and as a wildlife food supply. In selected areas, the indigenous vegetation has been augmented by numerous immature hardwoods and fruit-bearing trees as well as shrubs. Other areas have been improved in support of landfill operations or recreational uses. During the course of the remediation of the site some impacts to the site land surface and/or vegetation are likely.
- 3.2.8.2 Excavations will be created during remediation activities. To the extent practical, the original soil will be returned to the hole. Any disturbed areas will be restored to original grade and contour, and, where possible, the existing ground cover will be replaced.
- 3.2.8.3 Remedial support zones will be established at the site that may be impacted by site activity. The Site Operations Trailer area will include a field trailer and parking for vehicles. Grading activities may be necessary in the Magazine Storage Area and Demolition Areas. Other areas may be impacted by vehicular traffic. These areas shall be restored to their pre-investigative state unless otherwise directed by the Corps of Engineers and agreed to by the property owner.

### 3.2.9 Permits and Required Submittals

3.2.9.1 The administrative requirements for compliance with state and local regulations will generally not factor into this investigation because of the general CERCLA exemption. However, the spirit of these regulations will be followed through close coordination with local regulatory agencies to ensure they are fully informed as to the nature of the work being conducted on the site and the need to comply with any local regulatory requirements.

3.2.9.2 The contractor shall obtain a permit from the Spartanburg County Office for the office trailer and to ensure necessary power and sanitary requirements are adequately met.

#### 3.2.10 Transportation and Disposal of Ordnance and Scrap

3.2.10.1 It is assumed that demolition of all OE items will be performed onsite. Therefore, only transportation of scrap materials resulting from the ordnance demolition effort would be required. The contractor shall complete a DD Form 1348-1 and/or local form required by the Defense Reutilization Marketing office (DRMO). The contractor shall prepare a certificate and the contractor Senior UXO Supervisor shall sign the certificate which shall state the following;

"I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature,"

- 3.2.10.2 DRMO turn-in documentation receipts shall be submitted as a component of the Removal Report.
- 3.2.10.3 If the DRMO does not accept scrap or if DRMO is not available locally, the contractor will arrange for a local scrap contractor to remove the scrap.
- 3.2.10.4 If UXO must be transported off-site for disposal, provisions of 49 CFR 100-199, DAPam 385-64, state and local laws shall be followed.

#### 3.3.11 Requirements for the Closure Report

A closure report will be prepared following completion of the remediation work. The report will include all survey, geophysical and OE items removal data generated from the remediation work. The Contractor shall furnish copies of maps confirming remediation work accomplished and the report to CEHNC. A draft and a final version of the Closure Report will be submitted. After a detailed review of the draft Closure Report, responses to comments generated shall be incorporated into the final Closure Report.

#### **SECTION 4**

#### REFERENCES

- Burt, W.H., and R. P. Grossenheider. 1976. A Field Guide To The Mammals. Peterson Field Guide Series. Third Edition, 287 pp.
- Code of Federal Regulations (CFR). 1993. National Oil and Hazardous Substances Pollution Contingency Plan (NCP). 40 CFR 300.415, 7/93.
- Environmental Science and Engineering, Inc. (ESE). 1996. Draft Work Plan. Engineering

  Evaluation/Cost Analysis Former Camp Croft Army Training Facility, Spartanburg, South

  Carolina. Prepared for U.S. Army Engineering and Support Center, Huntsville, January 1996.
- Environmental Science and Engineering, Inc. (ESE). 1996a. Engineering Evaluation/Cost Analysis
  Former Camp Croft Army Training Facility, Spartanburg, South Carolina. Prepared for U.S.
  Army Engineering and Support Center, Huntsville, January 1996.
- Environmental Science and Engineering, Inc. (ESE). 1996b. Evaluation and Mapping, Former Camp Croft Army Training Facility, Spartanburg, South Carolina. Prepared for U.S. Army Engineering and Support Center, Huntsville, January 1996.
- Environmental Science and Engineering, Inc. (ESE). 1996c. Former Camp Croft Final Supplemental Archive Search Report. Prepared for U.S. Army Engineering and Support Center, Huntsville, July 1996.
- Environmental Science and Engineering, Inc. (ESE). 1996d. Former Camp Croft Final Supplemental Engineering Report. Prepared for U.S. Army Engineering and Support Center, Huntsville, March 1996.
- Human Factors Applications, Inc. (HFA). 1995a. Time-Critical Removal Action, Former Camp Croft, Red Hill, Spartanburg, SC. February 1995.
- Human Factors Applications, Inc. (HFA). 1995b. Time-Critical Removal Action, Former Camp Croft, Red Hill, Spartanburg, SC. May 1995.
- Intellicast, 1997. Internet weather data from Intellicast. Web page http://www.intellicast.com/weather/gsp/climat.html.
- National Oceanic and Atmospheric Administration, 1997. Internet weather data from the National Oceanic and Atmospheric Administration. Web page http://www.ncdc.noass.gov/cgi-bin/ginterface.
- Parsons Engineering Science, Inc., April 1995. OEW Geographic Information Systems User's Manual. Fairfax, VA. Prepared for the US Army Corps of Engineers, Huntsville Division.

- Parsons Engineering Science, Inc., November 1996. Work Plan to Conduct Engineering Design, Ordnance Operable Unit 6, Former Camp Croft Army Training Facility, Spartanburg, SC. Prepared for US Army Corps of Engineers, Huntsville Division.
- Radford, A. E., H.E. Ahles, and C. R. Bell. 1968. Manual of the Vascular Flora of the Carolinas. University of North Carolina Press. 1183 pp.
- South Carolina Department of Parks, Recreation, and Tourism (SCDPRT). 1989. Croft State Park Management Plan.
- South Carolina Department of Natural Resources, 1997. Internet data on severe weather for South Carolina. Web page http://www.water.dnr.state.sc.uc.us/climate/
- State Of South Carolina Heritage Program, 1997. Personal communication, by letter, with State of South Carolina Heritage Program, May 12, 1997.
- U.S. Environmental Protection Agency (EPA). 1993. Guidance on Conducting Non-time-Critical Removal Actions Under CERCLA. Publication 9360.0-32, 8/93.
- U.S. Environmental Protection Agency. 1990. Superfund Removal Procedures, Action Memorandum Guidance, EPA/540/P-90/004, 12/90.
- U.S. Army Corps of Engineers (USACE), Rock Island District. 1994. Ordnance and Explosive Waste Archives Search Report for the Former Camp Croft Army Training Facility, April, 1994.
- U.S. Occupational Health and Safety Administration (OSHA). 1994. Hazardous Waste Operations and Emergency Response Training Regulations. 40 CFR 1910.120, 7/94.
- United States Fish and Wildlife Service (USFWS), 1995. Endangered and Threatened Species of the Southwestern United States (The Red Book). Region IV, USFWS.
- United States Fish and Wildlife Service, 1996. USFWS list of federally-protected species. Internet web page http://www.fws.gov/~r9endspp/statl-r4.html.

# APPENDIX A OE ENGINEERING DESIGN FIELD INVESTIGATION ACTIVITIES

# APPENDIX A OE ENGINEERING DESIGN FIELD INVESTIGATION ACTIVITIES

#### A.1.1 INTRODUCTION

A.1.1.1 OE Engineering Design field investigations were conducted at the former Camp Croft Army Training Facility (CCATF), Ordnance Operable Unit 6, between December 1996 and February 1997 to determine the nature and extent of OE contamination. The information gathered from these site investigations was used to prepare the Engineering Design for the most appropriate response action to reduce the public safety risk posed by OE/UXO at the site. These investigations included:

- review of historical data (archival investigation);
- geophysical survey investigation;
- intrusive investigations; and
- integration of all of the data collected from these investigations into the former CCATF, Ordnance Operable Unit 6, Geographic Information System (GIS).

#### A.1.2 SITE VISIT AND ARCHIVAL INVESTIGATION

- A.1.2.1 The site visit was conducted on August 28 and 29, 1996. The purpose of the site visit was to visually inspect, photograph, and videotape existing development at OOU6 and obtain historical site documentation to evaluate both past and current land use, assess the type and quantity of ordnance that has been used, and evaluate the site's potential for buried OE.
- A.1.2.2 A review of the historical documents and studies conducted at the former CCATF provided sufficient information on the potential nature and locations of OE that may be present at the site. The historical documents reviewed included:
  - the Preliminary Assessment Report prepared by the US Army Corps of Engineers, Charleston District in 1991;
  - the ASR prepared by the US Army Corps of Engineers, Rock Island District in April 1994;
  - the Time Critical Removal action (TCRA) Report prepared by HFA in 1995;
  - the Engineering Evaluation/Cost analysis (EE/CA) Report prepared by ESE for CEHNC in 1996;
  - the Evaluation and Mapping Report prepared by ESE for CEHNC in 1996;

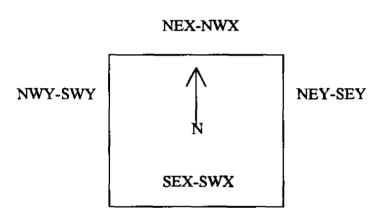
- the SASR prepared by ESE for CEHNC in 1996; and
- the Supplemental Engineering Report prepared by ESE for CEHNC in 1996;
- A.1.2.3 The site visit included activities such as gathering recorded documentation of planned development for the site, review of existing CCATF documents in the Spartanburg County Library, review of endangered species and wetlands concerns, establishment of contacts with local state agencies, and verification of local hospital routes and emergency (police, fire, etc.) jurisdictions. The findings of this record review are provided in Section 1.6.2 of the Engineering Design Report.

#### A.1.3 GEOGRAPHIC INFORMATION SYSTEM

- A.1.3.1 Part of the former CCATF OOU6 site investigation included the use of a GIS. The GIS system employed on the project was able to assemble and configure site survey data and create a GIS tailored for the specific needs of the site. Existing CCATF GIS-CADD maps were provided by CEHNC to develop the initial investigation map for the site. The data gathered from the geophysical investigation was combined with the intrusive investigation data and was incorporated into the GIS to establish a profile for OE items found at the site. This information assisted in the evaluation of the potential cleanup costs of various levels of OE clearance at the site.
- A.1.3.2 Specific areas where the GIS was used during the former CCATF OOU6 field investigation included the following: (1) land survey data was successfully transferred to establish a GIS base map that was used to plan and design the geophysical investigation; (2) the geophysical survey data was incorporated into the GIS and was used to direct the intrusive operations; and (3) the GIS was used to evaluate the geophysical and intrusive investigation data after completing the field work. These evaluations were made to determine the sensitivity of the geophysical survey equipment for various types of OE items found at the site (for example, percentage of false positives at each sector and the overall average for the site).
- A.1.3.3 At the beginning of the field investigation, control points were set up throughout the site to accurately locate the geophysical survey sampling grids. The coordinates of each of these control points was entered into the GIS using the North American Datum of 1983 (NAD83) referenced to the South Carolina State Plane Grid System. These control points were used by the survey crews to locate the grid corners in the field. The grid corners were located to the nearest plus/minus 1 foot of the original GIS coordinates planned for the sampling grid unless precluded by site conditions. Where applicable, revisions to the GIS database were made to reflect field deviations.
- A.1.3.4 50 foot by 50 foot squares sampling grids, oriented north-south to enable quick tracking of grid locations and access to each grid during subsequent investigations were established. The sampling grids were set up in clusters consisting generally of 4 individual grids, to reduce travel time between grids. Upon completion of the geophysical survey data acquired were transfered from field log books into the computer and subsequently into the GIS. Intrusive investigation teams then used the anomaly locations

(as flagged) to re-acquire and investigate the anomalies identified during the geophysical survey. Finally, upon completion of the intrusive investigation, the data was entered into GIS and was used to draw conclusions on the potential number and distribution of OE items that could be found across the remainder of the site.

- A.1.3.5 QC of the location surveys of the grid corner was conducted by the survey team and by the Parsons ES GIS staff. All survey data collected when establishing grid corners was quality checked by entering the coordinates for each point into the Oracle database. The next step was to determine the length of each side of the square. The grid corners were to be + or 1.0 foot in accuracy per work plan requirements.
- A.1.3.6 Parsons ES constructed the equations to determine the accuracy and found that all grids met the requirements. The length of each segment was no longer than 51 feet or shorter than 49 feet in length. The results of the calculations for each grid are included in a summary table in Appendix B "Original Surveying and Mapping Data". The Title Page of this appendix will be revised to read "Original Surveying and Mapping Data and QC Results of Surveying Data". The calculations are based on the configuration depicted below:



#### A.1.4 GEOPHYSICAL SURVEY

#### A.1.4.1 Introduction

- A.1.4.1.1 The geophysical survey at the former CCATF OOU6 was conducted between January 7 and February 7, 1997. The geophysical survey was conducted on 256 individual 50 foot by 50 foot grids. The coordinates of the grid corners were initiatlly established in the field by a combination of GPS, total station, and tape and compass survey techniques. Survey control was established using local USGS and South Carolina State Plane Grid System benchmarks and control points established during previous investigations. Coordinates of each sampling grid were translated from North American Datum of 1983 references to the South Carolina State Plane Grid System.
- A1.4.1.2 The control points selected or used were all either recognizable surface features, monuments, or features found on maps. A visual survey of the control points was made by the Parsons ES site manager and the surveyors to assure their credibility.

Photographs were taken of each of the control points and the surrounding area for later identification.

- A.1.4.1.3 Subsequently, field activities for the geophysical survey included the following tasks:
  - setting up the equipment calibration verification test grid;
  - setting up the survey sampling grids;
    - staking and surveying sampling grid corners;
    - extensive clearing of brush and small trees within sampling grids;
    - clearing of brush and small trees for access to sampling grids;
  - calibration of the Geonics EM-61 instrument;
  - geophysical survey data acquisition using a 3-foot lane spacing; and
  - field data analysis.
- A.1.4.1.4 Prior to the geophysical surveying of each sampling grid, a UXO certified expert surface cleared the sampling grids to ensure the safety of the geophysical survey crews. This clearing effort involved a visual inspection and use of a Schoenstedt fluxgate magnetometer.

#### A.1.4.2 Geophysical Survey Instrument

- A.1.4.2.1 Two Geonics EM-61 Electromagnetic Time Domain Metal Detectors were used by Parsons ES personnel to perform the geophysical survey. The EM-61 instrument is a proven, state-of-the-art underground ordnance locating system. The instrument consists of a transmitter and receiver frame (1 meter wide), an electronics backpack, an optional cart configuration with an odometer, an audio data output jack, and a hand held automated data logger. Throughout this survey, the EM-61 instrument was operated with the frame on wheels and towed as a cart, with the exception of portions of the geophysical survey work conducted on February 7, 1997. The unit was operated in skirt mode on the final day of geophysical work due to a failure of the cart axle. The second unit had previously been returned to the rental agency therefore, it was not available for use. A photograph of the EM-61 being used in cart mode and in skirt mode are presented as Figures A.1 and A.2, respectively.
- A.1.4.2.2 Portions of the geophysical investigation involved two geophysical teams operating onsite simultaneously. In these instances, the site manager assigned and controlled the locations of the survey teams in order to maintain a 100 foot buffer zone between EM-61 units to avoid potential equipment interferences. In addition, the teams regularly exchanged information pertaining to types of responses observed in sampling grids investigated and how they were interpreted.

## FIGURE A.1 EM-61 APPLICATION IN CART MODE -



Geophysical Investigation Team using the EM-61 equipment in Cart Mode at grid #46 in the Pine Farm (Sector 2).

#### FIGURE A.2 EM-61 APPLICATION IN SKIRT MODE



Geophysical Investigation Team using the EM-61 equipment in Skirt Mode at grid #273 in the Natural Brush/Forest (Sector 6).

#### A.1.4.3 Equipment Calibration Verification

- A.1.4.3.1 A calibration verification grid, which measured 25 feet by 50 feet, was established to conduct daily functional checks of the geophysical investigation search instruments. The grid was established adjacent to the field trailer in an area previously cleared of ordnance by HFA during the 1994/1995 TCRA. The selected area was checked and cleared of any remaining anomalies (small UXO fragments). Specific OE items of interest at OOU6 included 60mm and 105mm projectiles (reportedly, these were the OE items fired into the target area at OOU6). Therefore, four inert 25-pound 105mm Howitzer projectiles (105mm base ejection illumination/smoke rounds with mechanical timer fuze) and four mock 60mm mortars were buried in eight different locations at depths of one foot, two feet, three feet, and four feet respectively to serve as known anomalous sources for calibration verification purposes. The EM-61 units were operated over the known anomalous sources and the maximum observed readings were recorded daily in the geophysical logbooks. The EM-61 instruments' factory-set calibration was verified by comparing the initial day's readings (the baseline) to subsequent daily measurements. No daily reading differed by more than 25% of the baseline readings as required by the approved Work Plan. These calibration confirmation procedures conformed to the manufacturer's standard instructions and were performed to ensure that the equipment functioned within the allowable tolerances established by the manufacturer and required for this project. The Schoenstedt magnetic locators and Foerster FEREX Mk 26 magnetometers were checked and adjusted daily over the same grid to ensure that the instruments were functioning within their acceptable range.
- A.1.4.3.2 One of the property owners (Dr. Lowry) voluntarily provided the four 105mm inert ordnance items buried in the calibration grid. These ordnance items were previously found on-site by workers on his property within OOU6.
- A.1.4.3.3 On January 20, 1997, additional items were "seeded" in the calibration verification grid at the request of the Corps of Engineers. Previous site investigations had identified the potential presence of 60mm mortars at the site but no inert ordnance was available. Four equivalent 60mm ordnance items were constructed from steel pipes and steel end caps as specified by the Corps. These mock ordnance items were also buried in four different locations at depths of one foot, two feet, three feet, and four feet respectively to serve as anomalous sources for calibration purposes.
- A.1.4.3.4 The calibration verification grid was restored to its original preinvestigation condition on February 26, 1997. The four inert 105mm projectiles were excavated and returned as requested to Dr. Lowry. The four mock 60mm mortars were excavated and disposed off-site.

#### A.1.5.4 Survey Area Coverage

A.1.5.4.1 The total area geophysically surveyed at the former CCATF OOU6 was approximately 14.74 acres based on 256 surveyed 50-foot by 50-foot sampling grids. This constitutes 5.57% coverage of the 264.65 acres of the site for which access was granted. On the basis of the designated sectors, approximately 2.47 of 38.94 acres were

geophysically investigated in the Pine Farm, 0.63 of 21.31 acres was geophysically investigated in the Landfill and Composting sector, 2.47 of 25.32 acres were geophysically investigated in the Pond Area, 8.61 of 169.05 acres were geophysically investigated in the Natural Brush/Forest Areas, and 0.23 of 30.17 acres was geophysically investigated in the EE/CA Grid 87 sector. No geophysical investigations were conducted within the Roads and Site Operations Building Sector and the Wetlands/Streams sector.

A.1.5.4.2 A total of 256 individual sampling grids were geophysically investigated. One grid, Grid 199, was geophysically investigated twice because sizable metallic debris was discovered during QC activity conducted following the intrusive investigation. The sampling grids were uniform in size at 0.057 acre (50 feet by 50 feet). The geophysical investigation identified 2,310 anomalies. The locations of the geophysical survey grids, are presented in Figure 1.5 in the main section of this report. Table 1.5 also in the main section of this report presents a summary of the geophysical survey investigation's results. The geophysical survey data is included in Appendix C.

#### A.1.5.5 Field Data Acquisition

- A.1.5.5.1 The geophysical survey was performed using a "mag and flag" methodology. The EM-61 instruments were pulled across the sampling grids in survey lanes (traversing north-south) approximately 3 feet wide to provide full coverage of the grids. The operator of each instrument was able to see the measurements on a digital display on the data recorder and also wore a set of headphones which transmitted a sound that varied in frequency from low to high pitches. The pitch was dependent on the strength of the magnetic field in the subsurface and correlated directly with the instrument readings. The operator used the recorder display and the sound in the headphones to determine the approximate xy location of anomalies within the sampling grids. The measurement on the digital display was then recorded. Four measurements were recorded: background top and bottom coil readings and peak top and bottom coil readings. Field observation of the magnitude of the EM-61 response and empirical judgment were used to interpret observed readings as recognizable anomalous conditions. Information gathered during the survey of the initial sets of sampling grids was also used to refine follow-on field interpretation of observed data. Once an anomaly was located, a survey flag was inserted into the ground to mark the location and numbered for reference. The anomaly numbering was sequential and was reinitiated to zero for each sampling grid.
- A.1.5.5.2 In some sampling grids, an elevated EM-61 response was observed over a wide lateral area indicating the potential for the presence of multiple or a large source material(s). In these cases, specific comments were made and recorded in the field log book and multiple survey flags displaying the same anomaly number were placed around the anomalous area. The highest EM-61 reading and the approximate affected area of the anomaly were then recorded in the field log book for reference.
- A.1.5.5.3 The geophysical data was manually recorded in field logbooks during the field work. The data was compiled and provided to COE after completing the field work

in March 1997. A copy of the data file created from the field log is included in Appendix C, with the Site Characterization Data. Consistent with the work plan, no electronic data files were collected during the EM-61 surveying.

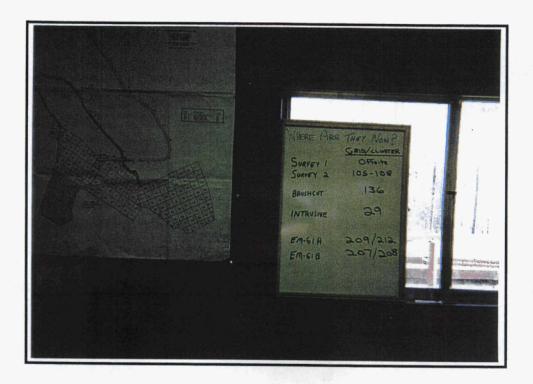
A.1.5.5.4 No OE-related items (other than small fragments) were discovered on the grid surfaces during the geophysical investigation or brush cutting or clearance activities. As stated previously, ordnance avoidance surface clearance was conducted by UXO-certified personnel during brush cutting activities thus negating the Work Plan escort requirement for the EM-61 geophysical survey teams. This deviation from the approved Work Plan was approved by CEHNC.

#### A.1.6 INTRUSIVE INVESTIGATION

- A.1.6.1 The purpose of the intrusive investigation was to verify the EM-61's effectiveness to accurately locate OE items at the former CCATF OOU6. The intrusive investigation had the following two objectives:
  - to safely and efficiently excavate, identify, and document OE recovered from the site; and
  - to establish a database from which the Engineering Design could be prepared.
- A.1.6.2 Upon completion of the geophysical survey at a sampling grid, the grid became available for intrusive investigation by the UXO subcontractor, UXB International. The Parsons ES site manager, in conjunction with the UXB site supervisor, daily selected grids for intrusive investigation from the pool of sampling grids for which the geophysical investigation was completed. Factors considered when selecting a grid for intrusive investigation included proximity of on-going geophysical activities, areas where the property owner's (or property owner's representative) actions may jeopardize continued grid investigation, landfill operations, weather-related effects/issues, site manager discretion, etc. Of the 256 individual sampling grids geophysically investigated, 98% (251) of the grids had all of the anomalies detected within the grid intrusively investigated. Five sampling grids (74, 75, 96, 148, and 160) were deleted from the project after the geophysical investigation but prior to the intrusive investigation. These grids were deleted upon discovery that portions of the grids may encroach adjacent property from which access had not been granted. The grid corner stakes and anomaly location flags were removed and no intrusive investigation was conducted at these locations.
- A.1.6.3 The intrusive investigation was conducted at the site with little disruption to local residents or onsite workers. An exclusion zone was established as approved by the CEHNC Project Safety Manager to avoid any dangerous effects due to fragmentation or over-pressure from an accidental OE detonation during intrusive operations.
- A.1.6.4 Prior to commencement of the intrusive investigation on January 16, 1997, the Magazine Storage Area was prepared. The location selected in the field (approved by the Corps of Engineers and the property owner) was in an open area between OE Engineering Design sampling grids 61 and 64 (see Figure 1.7 in the main section of the

- report). This location was previously utilized for a magazine storage area by HFA during the TCRA and had been precleared of ordnance. The lightning suppression rods for the former magazine storage area were available for reuse. On January 13 and 14 the fencing subcontractor constructed a security fence around the location for the magazine(s). The magazines arrived at the site on January 15, 1997 via flatbed truck and were secured in the approved configuration within the fence limits. All explosives and detonators were stored within the magazines. The magazines remained double-locked at all times and the security fence was kept locked when the Magazine Storage Area was not actively in use.
- A.1.6.5 The locations of the intrusive team(s) on the site was maintained in the field trailer by the site manager on maps and a dry-erase tracking board. The tracking board showed intrusive team number and sampling grid number under investigation. The site map identified the location of the sampling grid within OOU6. Completion of intrusive activities in one grid and movement to another was monitored via dedicated site radios and updated on the tracking board. Other onsite personnel were notified of movement as necessary. A photograph of one of the tracking boards at the site is shown in Figure A.3.
- A.1.6.6 High precision survey methods were not used to identify the locations of individual recoveries of ordnance scrap, ordnance fragments, shrapnel, small arms ammunition and metallic debris. A weight summary by category by anomaly was recorded on the field dig sheets along with any other significant visual observations. The locations of the ordnance items were measured from grid corner stakes using a standard measuring tape and the data was promptly recorded in the field dig sheets.
- A.1.6.7 Discovery of both live and inert ordnance items was immediately relayed from the intrusive team to the Parsons site manager. Data (location, photographs, depths) for inert ordnance items were recorded by the intrusive team. Following the discovery of live ordnance, the area was secured. An exclusion zone was established by the UXO subcontractor based on the net documented explosive weight of the ordnance item (5 pounds for a 105mm) and calculated fragmentation distances. The Parsons site manager was immediately notified. He then communicated the information to the project manager. The project manager informed the Corps of Engineers. In addition, a Corps of Engineers representative (CEHNC Safety), Mr. Jim Anelle, was notified at the HFA trailer located within Croft State Park. Mr. Anelle proceeded to the OOU6 site and observed/witnessed detonation in place of the UXO. No UXO was identified as containing military toxic chemical agents during the site investigation.
- A.1.6.8 GIS maps were developed to illustrate the locations of the anomalies where ordnance was recovered. All of the identified anomalies within a sampling grid were assigned a unique identifier. Easting and northing coordinates for each of the anomalies with other pertinent attributes (for example, type item recovered and weight) were input into the Relational Interface System (RIS) schema in Oracle. Computer Aided Drafting and Design (CADD) drawings depicting the quantity and locations of anomalies within each grid geophysically investigated were also developed.

## FIGURE A.3 INTRUSIVE TEAM TRACKING BOARD



Tracking board used for monitoring location of geophysical and UXO Intrusive Investigation teams during the OE Engineering Design field work.

- A.1.6.9 The intrusive investigation was completed by February 26, 1997. 14 inert 105mm illumination/smoke rounds recovered at the site were officially demilitarized on February 27, 1997 for disposal to a local recycler.
- A.1.6.10 The Schoenstedt and Mk26 equipment were used to confirm the locations of the EM-61 anomalies flagged by Parsons ES personnel during the geophysical investigation. After confirmation, the intrusive team excavated small amounts of soil and continuously rechecked the excavation with the Mk26 instrument until the item was isolated. A 3 foot radius excavation was made around each flagged anomaly up to a depth of 4 feet. An estimated weight of the recovered item(s) was recorded for each anomaly by category. The categories consisted of ordnance, UXO fragments/scrap, and nonUXO scrap. This information was recorded on the intrusive dig sheets along with other grid-specific information (See Appendix C).
- A.1.6.11 Intrusive procedures were modified to accommodate several site-specific conditions encountered in the field. Magnetic rocks and metallic soil layers were encountered within some anomaly excavations. Occasionally excavation of an anomaly reached a depth of 4 feet and no objects were recovered and the geophysical instrument still identified a subsurface magnetic field. In these instances excavation activity was ceased, the occurrence noted on the intrusive dig sheets, and the excavation was backfilled. Other experience included excavation of anomalies at several grids that led to the unearthing of very large objects (usually with a backhoe) such as concrete slabs with rebar reinforcement, large mechanical parts, and other items difficult to handle but not OE-related. In these instances the objects were noted on the intrusive dig sheets, but no object weights were recorded. The intrusive data for each grid was entered into the GIS database.
- A.1.6.12 Not all the sources of the flagged anomalies identified by the EM-61 geophysical survey crews were confirmed by the intrusive operations. A total of 324 of the 2293 (2311 minus 18 deleted grid anomalies) or 14.1% of the anomalies excavated from the 251 individual sampling grids were identified as "false positives. Magnetic rocks and soil containing ferrous constituents may be responsible for these false positives.

#### A.1.7. QA AND QC INVESTIGATIONS

A.1.7.1 Upon completion of the intrusive investigation of sampling grids, a quality control (QC) check of 10% of the area of each grid was conducted by the UXO subcontractor using the Foerster Mk26 magnetometer. The Mk26 instrument was used to identify if any other potential sources existed within the grid investigated that were not flagged by the geophysical survey team. All anomalies identified during the QC effort were intrusively investigated to confirm their source. No OE items were found at any locations investigated. However, small to medium size metal objects including fragments of OE scrap were recovered at some of these locations. Due to the presence of several OE fragments and metal debris in some areas, the EM-61 survey teams screened these items out to discern anomalies that are likely due to the presence of ordnance. In these cases, consideration was given to the readings observed for various buried ordnance in the calibration grid so as not to screen out potential UXO.

- A.1.7.2 Several large metal objects, consisting of plow blades and horseshoes, were recovered during the QC of grid 199. This grid was established in an area apparently used for miscellaneous dumping in the past. The geophysical survey of this grid was repeated and numerous anomalies flagged. The second intrusive investigation of this grid recovered a variety of nonUXO scrap items. Follow-up QC did not identify any further significant findings. No further investigation of this grid was conducted. The QC report for each grid investigated durin the OE Engineering Design is provided in Appendix F.
- A.1.7.3 Upon completion of the QC investigation of sampling grids, a quality assurance (QA) check of each grid was conducted using the Foerster Mk26 magnetometer by a CEHNC representatives. The exact procedures applied and the percentage of area coverage of each grid was not made known to the site manager. However, no significant findings in any of the grids were identified.

#### A.1.8. SITE SECURITY

- A.1.8.1. As a result of the presence of an active, operating landfill on the site, safety procedures were established. During landfill business hours, trucks carrying waste for disposal periodically entered the site via Mimosa Lake Road. These trucks were subsequently weighed at the scalehouse area where the temporary project trailer were also set up. Upon entry of a truck onsite, the site manager (or other appointed monitor) would radio to the intrusive team(s) to stop work if intrusive activities were within approximately 200 feet or in visual communication of the landfill access roadway or similar area where the truck might travel. Intrusive work would cease until the truck had emptied its load and returned to the scalehouse area (generally less than 15 minutes). Active intrusive activities were temporarily suspended any time unauthorized/unqualified persons (property owner, property owner representatives, visitors, etc.) were in visual contact with the intrusive team(s). Upon discovery of an OE item, personnel in the area were further reduced until the item was identified/secured.
- A.1.8.2 The locations of the intrusive team(s) on the site was maintained in the field trailer by the site manager on maps and a dry-erase tracking board. The tracking board showed intrusive team number and sampling grid number under investigation. The site map identified the location of the sampling grid within OOU6. Completion of intrusive activities in one grid and movement to another was monitored via dedicated site radios and updated on the tracking board. Other onsite personnel were notified of movement as necessary.

### A.1.9 OE ITEM AND OE SCRAP SEGREGATION, DEMOLITION, AND DISPOSAL

A.1.9.1 Suspect OE items that were found at the site were analyzed by the Senior UXO Field Supervisor and the Site Safety Officer. OE items that were recovered during the intrusive investigation were handled in one of two different ways. OE items that were intact but deemed non-hazardous were segregated and kept within the fence enclosing the magazine area. Since these items contained complete or partial fuzes, demilitarization was required before certification of inert could be provided. Potentially hazardous OE items

were destroyed inplace following securing of the effected area. A photograph depicting the segregated items recovered at OOU6 is shown in Figure A-4.

- A.1.9.2 Non-Hazardous OE Recovery. OE related items regarded as non-hazardous (inert) were routinely segregated and relocated to the designated magazine area during the intrusive investigation. A total of 14 OE items were recovered as summarized in Table A-1. Additionally, items that were non-OE related were segregated and stored at this location. This activity was supervised by the Senior UXO Field Supervisor and the Site Safety Officer. At the completion of the intrusive investigation, these items were removed from the site.
- A.1.9.3 Non-OE Items. Non-OE items recovered during the intrusive investigation included horseshoes, rebar, plow blades and parts, nails, barbed wire fencing, pipes, metal survey flags, household debris, building structure debris, and other miscellaneous metallic debris. All of the non-OE items were collected and stored adjacent to the magazine area unless the size of the object precluded recovery. At the completion of the intrusive investigation, approximately 314 pounds of non-OE related scrap were recovered from the site.
- A.1.9.4 **Demolition Operations** Two demolition operations were conducted during the intrusive investigation to render safe the one potentially hazardous OE item and demilitarize the 14 inert ordnance items. The first demolition operation was performed on February 18, 1997. The potentially hazardous OE item was rendered safe during this operation. A small amount of HE material remained after detonation and was collected and stored at the magazine area. The post demolition crater was backfilled to grade. No additional restoration was required as the local topography was currently being altered in support of the pond construction.
- A.1.9.5 The second demolition operation involved the destruction of 14 inert OE items in order to certify them for disposal by a local scrap recycler. During the second demolition activity the remaining HE from the first demolition operation was detonated. The second demolition operation took place on February 27, 1997. The demolition area, located near sampling grid 262 in the southern portion of OOU6, was backfilled and regraded to pre-operation conditions.
- A.1.9.6 On February 27, 1997 the remains of the potentially hazardous OE items rendered safe, the non-hazardous OE items, and the non-OE-related items recovered during the intrusive investigation were removed from the site by Arrow Steel Products, Inc., located at 1621 Union Street in Spartanburg, South Carolina. Documentation of removal of scrap materials from the site is included as an attachment to this Appendix.

#### FIGURE A.4 NON-HAZARDOUS SEGREGATED OF ITEMS



Segregated OE Items and other scrap materials recovered from sampling grids at OOU6 during the OE Engineering Design field work.

TABLE A.1
CCATF OOU6 OE INVESTIGATION/ENGINEERING DESIGN
LIST OF POTENTIALLY HAZARDOUS OE ITEMS\*

|                       | ITEM   | GRID | GIS        | Coord       | linates     | ANOMALY | DATE OF    | DEPTH                   |         | EM-61 Reading       |
|-----------------------|--------|------|------------|-------------|-------------|---------|------------|-------------------------|---------|---------------------|
| SECTOR <sup>(1)</sup> | lD     | ID   | ID         | Northing    | Easting     | ##      | DEMOLITION | FOUND                   | WEIGHT  | (mV) <sup>(2)</sup> |
| 2                     | 105 BE | 48   | 9904801001 | 1113144' 3" | 1764026' 7" | 10      | 2/27/97    | 6" tail/24" nose        | 25 lbs. | 101/90              |
| 2                     | 105 BE | 61   | 9906100602 | 1112838' 3" | 1764696' 3" | 6       | 2/27/97    | 8", horizontal          | 25 lbs. | 213/205             |
| 2                     | 105 BE | 66   | 9906601001 | 1112622'    | 1765070'    | 10      | 2/27/97    | 12", horizontal         | 25 lbs. | 118/111             |
| 2                     | 105 BE | 81   | 9908101101 | 1112493' 8" | 1764043' 4" | 11      | 2/27/97    | 6", horizontal          | 25 lbs. | 452/416             |
| 2                     | 105 BE | 83   | 9908300101 | 1112319'    | 1764039'    | 1       | 2/27/97    | 4", horizontal          | 25 lbs. | 221/218             |
| 2                     | 105 BE | 83   | 9908300502 | 1112338'    | 1764055'    | 5       | 2/27/97    | 4" tail/nose at surface | 25 lbs. | 71/56               |
| 2                     | 105 BE | 85   | 9908500302 | 1112647' 8" | 1764286' 1" | 3       | 2/27/97    | 3", horizontal          | 25 lbs. | 131/121             |
| 2                     | 105 BE | 110  | 9911001002 | 1112172' 6" | 1764098' 3" | 10      | 2/27/97    | 6", horizontal          | 25 lbs. | 70/59               |
| 4                     | 105 BE | 131  | 9913100201 | 1111156' 5" | 1763196' 5" | 2       | 2/18/97    | 18" tail/6" nose        | 25 lbs. | 25/31               |
| 4                     | 105 BE | 133  | 9913301101 | 1111426' 2" | 1763464'    | 11      | 2/27/97    | 24", horizontal         | 25 lbs. | 110/96              |
| 4                     | 105 BE | 137  | 9913700101 | 1111079' 6" | 1763469' 8" | 1       | 2/27/97    | 24", horizontal         | 25 lbs. | 60/52               |
| 4                     | 105 BE | 155  | 9915500302 | 1111452'    | 1763964' 10 | 3       | 2/27/97    | 4", horizonta!          | 25 lbs. | 114/104             |
| 4                     | 105 BE | 166  | 9916600401 | 1111076'    | 1762895' 3" | 4       | 2/27/97    | 24", horizontal         | 25 lbs. | 102/90              |
| 4                     | 105 BE | 174  | 9917400101 | 1111260'    | 1763634' 6" | 1       | 2/27/97    | 24", horizontal         | 25 lbs. | 159/147             |
| 2                     | 105 BE | 205  | 9920500701 | 1110846' 10 | 1764519' 2" | 7       | 2/27/97    | 4", horizontal          | 25 lbs. | 169/157             |

<sup>\*</sup> Sorted by sector, ordnance items, and depth.

105BE = 105mm illumination/smoke projectile with mechanical timer (inert)

105HE = 105mm High Exposive projectile with point detonating fuze (live)

<sup>(1)</sup> Sector 2 - Pine Farm; Sector 4 - Pond

<sup>(2)</sup> EM-61 measurement unit is millivolt (mV) and the measurement is read from the instrument for the upper (top) and the lower (bottom) coils (for example, 101/90).

#### A.1.10 RECOVERED ORDNANCE ITEMS AND DESCRIPTION

A.1.10.1 Only 105mm projectiles, one HE and 14 BE illumination/smoke rounds, were recovered during the 1996/1997 Engineering Design field investigation. A photograph depicting a typical 105 mm round (illumination round and the HE round) is presented in Figure 1.9 in Section 1.6.8 of this Report. Detailed descriptions of these OE items are also provided in Section 1.6.8 of the OE Engineering Design Report.

## ATTACHMENT A SCRAP DISPOSAL DOCUMENTATION



| The state of the s |                 | A STATE OF THE STATE OF |                      | MATERIAL PROPERTY. |
|--|-----------------|-------------------------|----------------------|--------------------|
|  |                 |                         | and the second       | 24.11              |
| estalisis 🖹 insigni  | リー・アンカー だいしょうたい |                         | ない バジェイ カテム          |                    |
|  |                 |                         |                      |                    |
|  |                 |                         | Extended to          | F-32-194.4         |
|  |                 |                         | المساوسي في من الماض | - C'-:             |
|  |                 |                         | 10 12 NE 60 12       |                    |
| rough Title Statement  |                 |                         |                      |                    |

Number of Pagestic Editors St.

To: OLA ALLEAN TOLER TOL

From: 1007 700 (400

Comments: Cert.Let

Can Cost

| 08-97 THU 06:05 PM WOODFIELD SUIT                 | ES FAX NO. 303780           | 23377 P. 02          |
|---|-----------------------------|----------------------|
| LXB Internations                                  | nl. Inc.                    | Certificate of insp  |
| Contract Number: 7206.002                         | Contract Name: 4            | emp Croft - Gartanbo |
| been inspected by me and to the dangerous nature. | best of my knowledge and be |                      |
| Signature of UXB, UXO Supervisor                  | or Date                     | 5/8/97               |
| Item Description                                  | Quantity                    | Weight               |
| (Above these were                                 | 14 ea.                      | 594 lbs              |
| 105mm HE Trais w/m48                              | Func 100                    | 862 IN N.            |
|   |                             |                      |
|   |                             |                      |
| - Ca  |                             |                      |
| 2   |                             |                      |
| · · · · · · · · · · · · · · · · · · ·             |                             |                      |

UND PORM 1.MEI



## Arrow Steel Products, Inc.

P.O. Box 2525 - 1621 Union Steed - Spatishery, S.C. 29304 - Photo (864) 595-3435 Fex (864) 595-3438

February 27, 1997

This is to document that on February 27, 1997, at 1300 hrs., acrap materials (total weight estimated at 1,668 pounds) were picked up at OOU6, Camp Croft, Spartanburg, S.C. by Arrow Steel Products, Inc. The acrap was picked up for disposal at no cost to the Government.

Per OOU6 Engineering Design field work inventory, the scrap consisted of inert ordnance items (rendered safe) and nonhazardous scrap.

J. Ricky Tanenbaum

Chief Operating Officer

Arrow Steel Products, Inc.

# APPENDIX B ORIGINAL SURVEYING AND MAPPING DATA, QC RESULTS OF SURVEYING DATA, GPS CONTROL DATA, AND FIELD SURVEY NOTES

## APPENDIX B ORIGINAL SURVEYING AND MAPPING DATA

This appendix includes detailed listing of Site Survey and Mapping Data for the Sampling Grid at OOU6 including QC results of the Original Surveying and Mapping Data, GPS Control Data and Survey Work Field Notes prepared during the OE Engineering Design Field Work.



| GRID | SW_E          | SW_N          | NW_E          | NW_N          | NE_E          | NE_N          | SE_E          | SE_N          |
|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1    | 1764339.00000 | 1114152.00000 | 1764339.00000 | 1114202.00000 | 1764389.00000 | 1114202.00000 | 1764389.00000 | 1114152.00000 |
| 2    | 1764259.00000 | 1114097,00000 | 1764259.00000 | 1114147.00000 | 1764309.00000 | 1114147.00000 | 1764309.00000 | 1114097.00000 |
| 3    | 1764250.21911 | 1113923.17752 | 1764250,24162 | 1113973.12424 | 1764300.22700 | 1113973.12400 | 1764300.22694 | 1113923.22534 |
| 4    | 1764423.00000 | 1114083.00000 | 1764423.00000 | 1114133.00000 | 1764473.00000 | 1114133.00000 | 1764473.00000 | 1114083.00000 |
| 5    | 1764453.37100 | 1113913.98800 | 1764453.37132 | 1113963.98821 | 1764503.12484 | 1113964.20623 | 1764503.38578 | 1113913.98824 |
| 6    | 1764245.04727 | 1113812.86699 | 1764245.04700 | 1113862.88200 | 1764295.04092 | 1113862.88186 | 1764295.34205 | 1113812.51370 |
| 7    | 1764417.00000 | 1113737.00000 | 1764417.00000 | 1113787.00000 | 1764467.00000 | 1113787.00000 | 1764467.00000 | 1113737.00000 |
| 8    | 1764517.19457 | 1113768.34701 | 1764517.19500 | 1113818.57100 | 1764567.22185 | 1113818.57111 | 1764567.24342 | 1113768.37664 |
| 9    | 1763941.22145 | 1113757.16754 | 1763941.24922 | 1113807.28416 | 1763991.18066 | 1113807.32093 | 1763991.18100 | 1113757.16800 |
| 10   | 1763912.01562 | 1113643.98583 | 1763911.88860 | 1113693.98341 | 1763961.96055 | 1113693.89903 | 1763961.96100 | 1113643.98600 |
| 11   | 1764018.87400 | 1113640.03400 | 1764018.87409 | 1113690.03405 | 1764068.77410 | 1113690.51965 | 1764068.77400 | 1113640.03400 |
| 12   | 1764173.16900 | 1113583.95400 | 1764173.16904 | 1113634.02857 | 1764223.15229 | 1113634.03144 | 1764223.08239 | 1113583.95379 |
| 13   | 1764566.00000 | 1113570.00000 | 1764566.00000 | 1113620.00000 | 1764616.00000 | 1113620.00000 | 1764616.00000 | 1113570.00000 |
| 14   | 1764494,00000 | 1113494.00000 | 1764494.00000 | 1113544.00000 | 1764544.00000 | 1113544.00000 | 1764544.00000 | 1113494.00000 |
| 15   | 1764555.00000 | 1113412.00000 | 1764555.00000 | 1113462.00000 | 1764605.00000 | 1113462.00000 | 1764605.00000 | 1113412.00000 |
| 16   | 1764607.00000 | 1113493.00000 | 1764607.00000 | 1113543.00000 | 1764657.00000 | 1113543,00000 | 1764657.00000 | 1113493.00000 |
| 17   | 1764798.00000 | 1113694.00000 | 1764798.00000 | 1113744.00000 | 1764848.00000 | 1113744.00000 | 1764848.00000 | 1113694.00000 |
| 18   | 1764718.00000 | 1113674.00000 | 1764718.00000 | 1113724.00000 | 1764768.00000 | 1113724.00000 | 1764768.00000 | 1113674,00000 |
| 19   | 1764787.00000 | 1113608.00000 | 1764787.00000 | 1113658.00000 | 1764837.00000 | 1113658.00000 | 1764837.00000 | 1113608.00000 |
| 20   | 1764866.00000 | 1113648.00000 | 1764866,00000 | 1113698.00000 | 1764916.00000 | 1113698.00000 | 1764916.00000 | 1113648.00000 |
| 21   | 1763656.00000 | 1113485.00000 | 1763656.00000 | 1113535.00000 | 1763706.00000 | 1113535.00000 | 1763706,00000 | 1113485.00000 |
| 22   | 1763586.00000 | 1113419.00000 | 1763586.00000 | 1113469.00000 | 1763636.00000 | 1113469.00000 | 1763636.00000 | 1113419.00000 |
| 23   | 1763679,00000 | 1113395.00000 | 1763679.00000 | 1113445.00000 | 1763729.00000 | 1113445.00000 | 1763729.00000 | 1113395.00000 |
| 24   | 1763748.00000 | 1113413.00000 | 1763748.00000 | 1113463.00000 | 1763798.00000 | 1113463.00000 | 1763798.00000 | 1113413.00000 |
| 25   | 1764220.00000 | 1113425.00000 | 1764220.00000 | 1113475.00000 | 1764270.00000 | 1113475.00000 | 1764270.00000 | 1113425.00000 |
| 26   | 1764150.00000 | 1113350.00000 | 1764150.00000 | 1113400.00000 | 1764200.00000 | 1113400.00000 | 1764200.00000 | 1113350.00000 |
| 27   | 1764224.00000 | 1113256.00000 | 1764224.00000 | 1113306.00000 | 1764274.00000 | 1113306.00000 | 1764274.00000 | 1113256.00000 |
| 28   | 1764300.00000 | 1113350.00000 | 1764300.00000 | 1113400.00000 | 1764350.00000 | 1113400.00000 | 1764350.00000 | 1113350.00000 |
| 29   | 1764545.00000 | 1113219.00000 | 1764545.00000 | 1113269.00000 | 1764595.00000 | 1113269.00000 | 1764595.00000 | 1113219.00000 |
| 30   | 1764494.00000 | 1113136.00000 | 1764494.00000 | 1113186.00000 | 1764544.00000 | 1113186.00000 | 1764544.00000 | 1113136.00000 |
| 31   | 1764524.00000 | 1113017,00000 | 1764524.00000 | 1113067.00000 | 1764574.00000 | 1113067.00000 | 1764574.00000 | 1113017.00000 |
| 32   | 1764577.00000 | 1113125.00000 | 1764577.00000 | 1113175.00000 | 1764627.00000 | 1113175.00000 | 1764627.00000 | 1113125.00000 |
| 33   | 1765042.00000 | 1113466.00000 | 1765042.00000 | 1113516.00000 | 1765092.00000 | 1113516.00000 | 1765092.00000 | 1113466.00000 |
| 34   | 1764968.00000 | 1113369.00000 | 1764968.00000 | 1113419.00000 | 1765018.00000 | 1113419.00000 | 1765018.00000 | 1113369.00000 |
| 35   | 1765066.00000 | 1113292.00000 | 1765066.00000 | 1113342.00000 | 1765116.00000 | 1113342.00000 | 1765116.00000 | 1113292.00000 |
| 36   | 1765053.48185 | 1113384.19397 | 1765053.48807 | 1113434.20134 | 1765103.56522 | 1113434.09773 | 1765103.56500 | 1113384.19400 |
| 37   | 1765019.00000 | 1113129.00000 | 1765019.00000 | 1113179.00000 | 1765069.00000 | 1113179.00000 | 1765069.00000 | 1113129.00000 |
| 38   | 1765158.18800 | 1112964.48000 | 1765158.18755 | 1113014.41954 | 1765208.07711 | 1113014.41021 | 1765208.03288 | 1112964.48019 |
| 39   | 1765023.00000 | 1112979.00000 | 1765023.00000 | 1113029.00000 | 1765073.00000 | 1113029.00000 | 1765073.00000 | 1112979.00000 |



| 40 | 1765087.00000 | 1113059.00000 | 1765087.00000 | 1113109.00000 | 17 <b>6</b> 5137.00000 | 1113109.00000 |               |               |
|----|---------------|---------------|---------------|---------------|------------------------|---------------|---------------|---------------|
| 41 | 1765333.00000 | 1113110.00000 | 1765333.00000 | 1113160.00000 | 1765383,00000          | 1113160.00000 | 1765383.00000 | 1113110.00000 |
| 42 | 1765273.00000 | 1113018.00000 | 1765273.00000 | 1113068.00000 | 1765323.00000          | 1113068.00000 | 1765323.00000 | 1113018.00000 |
| 43 | 1765339,00000 | 1112921.00000 | 1765339.00000 | 1112971.00000 | 1765389.00000          | 1112971.00000 | 1765389.00000 | 1112921.00000 |
| 44 | 1765394.00000 | 1113001.00000 | 1765394.00000 | 1113051.00000 | 1765444.00000          | 1113051.00000 | 1765444.00000 | 1113001.00000 |
| 45 | 1763950.00000 | 1113218.00000 | 1763950.00000 | 1113268.00000 | 1764000.00000          | 1113268.00000 | 1764000.00000 | 1113218.00000 |
| 46 | 1763876.00000 | 1113150.00000 | 1763876.00000 | 1113200.00000 | 1763926.00000          | 1113200.00000 | 1763926.00000 | 1113150.00000 |
| 47 | 1763950.00000 | 1113050.00000 | 1763950.00000 | 1113100.00000 | 1764000.00000          | 1113100.00000 | 1764000.00000 | 1113050.00000 |
| 48 | 1764009.00000 | 1113139.00000 | 1764009.00000 | 1113189.00000 | 1764059.00000          | 1113189.00000 | 1764059.00000 | 1113139.00000 |
| 49 | 1763434.00000 | 1113106.00000 | 1763434.00000 | 1113156.00000 | 1763484.00000          | 1113156.00000 | 1763484.00000 | 1113106.00000 |
| 50 | 1763384.00000 | 1113056,00000 | 1763384.00000 | 1113106.00000 | 1763434.00000          | 1113106.00000 | 1763434.00000 | 1113056.00000 |
| 51 | 1763442.00000 | 1112993.00000 | 1763442.00000 | 1113043.00000 | 1763492.00000          | 1113043.00000 | 1763492.00000 | 1112993.00000 |
| 52 | 1763550.00000 | 1113050.00000 | 1763550,00000 | 1113100.00000 | 1763600.00000          | 1113100.00000 | 1763600.00000 | 1113050.00000 |
| 53 | 1763758.00000 | 1112963.00000 | 1763758,00000 | 1113013.00000 | 1763808.00000          | 1113013.00000 | 1763808.00000 | 1112963.00000 |
| 54 | 1783651.00000 | 1112887.00000 | 1763651.00000 | 1112937.00000 | 1763701.00000          | 1112937.00000 | 1763701.00000 | 1112887.00000 |
| 55 | 1763677.54260 | 1112813.75380 | 1763677.54260 | 1112863.75380 | 1763727.54620          | 1112863.75370 | 1763727.54620 | 1112813.75380 |
| 56 | 1763789.00000 | 1112849.00000 | 1763789.00000 | 1112899.00000 | 1763839.00000          | 1112899.00000 | 1763839.00000 | 1112849.00000 |
| 57 | 1764191.00000 | 1112950.00000 | 1764191.00000 | 1113000.00000 | 1764241.00000          | 1113000.00000 | 1764241.00000 | 1112950.00000 |
| 58 | 1764128.00000 | 1112885.00000 | 1764128.00000 | 1112935.00000 | 1764178.00000          | 1112935.00000 | 1764178.00000 | 1112885.00000 |
| 59 | 1764220.00000 | 1112833.00000 | 1764220.00000 | 1112883.00000 | 1764270.00000          | 1112883.00000 | 1764270.00000 | 1112833.00000 |
| 60 | 1764266.00000 | 1112898.00000 | 1764266.00000 | 1112948.00000 | 1764316.00000          | 1112948.00000 | 1764316.00000 | 1112898.00000 |
| 61 | 1764673.00000 | 1112798.00000 | 1764673.00000 | 1112848.00000 | 1764723.00000          | 1112848.00000 | 1764723.00000 | 1112798.00000 |
| 62 | 1764631.00000 | 1112698.00000 | 1764631.00000 | 1112748.00000 | 1764681.00000          | 1112748.00000 | 1764681.00000 | 1112698.00000 |
| 63 | 1764756.00000 | 1112619.00000 | 1764756,00000 | 1112669,00000 | 1764806.00000          | 1112669.00000 | 1764806.00000 | 1112619.00000 |
| 64 | 1764792.00000 | 1112716.00000 | 1764792.00000 | 1112766,00000 | 1764842.00000          | 1112766.00000 | 1764842.00000 | 1112716,00000 |
| 65 | 1765114.00000 | 1112700.00000 | 1765114.00000 | 1112750.00000 | 1765164.00000          | 1112750.00000 | 1765164.00000 | 1112700.00000 |
| 66 | 1765049.00000 | 1112622.00000 | 1765049.00000 | 1112672.00000 | 1765099.00000          | 1112672.00000 | 1765099,00000 | 1112622.00000 |
| 67 | 1765117.00000 | 1112540.00000 | 1765117.00000 | 1112590.00000 | 1765167.00000          | 1112590.00000 | 1765167.00000 | 1112540.00000 |
| 68 | 1765181.00000 | 1112601.00000 | 1765181.00000 | 1112651.00000 | 1765231.00000          | 1112651.00000 | 1765231.00000 | 1112601.00000 |
| 69 | 1765468.00000 | 1112781.00000 | 1765468.00000 | 1112831.00000 | 1765518.00000          | 1112831.00000 | 1765518.00000 | 1112781.00000 |
| 70 | 1765420.00000 | 1112703.00000 | 1765420.00000 | 1112753.00000 | 1765470.00000          | 1112753.00000 | 1765470.00000 | 1112703.00000 |
| 71 | 1765483.00000 | 1112649.00000 | 1765483.00000 | 1112699.00000 | 1765533.00000          | 1112699.00000 | 1765533.00000 | 1112649.00000 |
| 72 | 1765545.00000 | 1112713.00000 | 1765545.00000 | 1112763.00000 | 1765595.00000          | 1112763.00000 | 1765595.00000 | 1112713.00000 |
| 73 | 1763187.00000 | 1112905.00000 | 1763187.00000 | 1112955.00000 | 1763237.00000          | 1112955.00000 | 1763237.00000 | 1112905.00000 |
| 74 | 1763105.00000 | 1112834.00000 | 1763105.00000 | 1112884.00000 | 1763155.00000          | 1112884.00000 | 1763155.00000 | 1112834.00000 |
| 75 | 1763184.00000 | 1112748.00000 | 1763184.00000 | 1112798.00000 | 1763234.00000          | 1112798.00000 | 1763234.00000 | 1112748.00000 |
| 76 | 1763251.00000 | 1112824.00000 | 1763251.00000 | 1112874.00000 | 1763301.00000          | 1112874.00000 | 1763301.00000 | 1112824.00000 |
| 77 | 1765487.86979 | 1111313.57156 | 1765487.86979 | 1111363.57156 | 1765537.86931          | 1111363.57108 | 1765537.86979 | 1111313.57156 |
| 78 | 1765411.43898 | 1111309.39294 | 1765411.43898 | 1111359.39294 | 1765461.43850          | 1111359.39246 | 1765461.43898 | 1111309.39294 |
| 79 | 1765240.27000 | 1111255.21000 | 1765240.27000 | 1111305.21000 | 1765290,26952          | 1111305.20952 | 1765290.27000 | 1111255.21000 |



| 80  | 1765356,13612 | 1111239,39840 | 1765356,13612 | 1111289.39840 | 1765406.13564 1111289.39792   | 1765406.13612 1111239.39840           |
|-----|---------------|---------------|---------------|---------------|-------------------------------|---------------------------------------|
| 81  | 1764029,00000 | 1112473.00000 | 1764029.00000 | 1112523.00000 | 1764079.00000 1112523.00000   | 1764079.00000 1112473.00000           |
| 82  | 1763996,00000 | 1112374.00000 | 1763996.00000 | 1112424.00000 | 1764046.00000 1112424.00000   | 1764046.00000 1112374.00000           |
| 83  | 1764039.00000 | 1112288.00000 | 1764039.00000 | 1112338.00000 | 1764089.00000 1112338.00000   | 1764089.00000 1112288.00000           |
| 84  | 1764103.00000 | 1112365.00000 | 1764103.00000 | 1112415.00000 | 1764153.00000 1112415.00000   | 1764153.00000 1112365.00000           |
| 85  | 1764276.00000 | 1112627.00000 | 1764276.00000 | 1112677.00000 | 1764326.00000 1112677.00000   | · · · · · · · · · · · · · · · · · · · |
| 86  | 1764206.00000 | 1112574.00000 | 1764206.00000 | 1112624.00000 | 1764256.00000 1112624.00000   | 1764256.00000 1112574.00000           |
| 87  | 1764283.00000 | 1112476.00000 | 1764283.00000 | 1112526.00000 | 1764333.00000 1112526.00000   | 1764333.00000 1112476.00000           |
| 88  | 1764344.00000 | 1112547.00000 | 1764344.00000 | 1112597.00000 | 1764394.00000 1112597.00000   | 1764394.00000 1112547.00000           |
| 89  | 1765631.00000 | 1112424.00000 | 1765631.00000 | 1112474.00000 | 1765681.00000 1112474.00000   | 1765681.00000 1112424.00000           |
| 90  | 1765562.00000 | 1112349.00000 | 1765562.00000 | 1112399.00000 | 1765612.00000 1112399.00000   | 1765612.00000 1112349.00000           |
| 91  | 1765653.00000 | 1112293.00000 | 1765653.00000 | 1112343.00000 | 1765703.00000 1112343.00000   | 1765703.00000 1112293.00000           |
| 92  | 1765721.00000 | 1112355.00000 | 1765721.00000 | 1112405.00000 | 1765771.00000 1112405.00000   | 1765771.00000 1112355.00000           |
| 93  | 1765756.00000 | 1112168.00000 | 1765756.00000 | 1112218.00000 | 1765806.00000 1112218.00000   | 1765806.00000 1112168.00000           |
| 94  | 1765696.00000 | 1112089.00000 | 1765696.00000 | 1112139.00000 | 1765746.00000 1112139.00000   | 1765746.00000 1112089.00000           |
| 95  | 1765784.00000 | 1112026.00000 | 1765784.00000 | 1112076.00000 | 1765834.00000 1112076.00000   | 1765834.00000 11112026.00000          |
| 96  | 1765849.00000 | 1112106.00000 | 1765849.00000 | 1112156.00000 | 1765899.00000 1112156.00000   | 1765899.00000 1112106.00000           |
| 97  | 1766032.62233 | 1111010.55509 | 1766032.62233 | 1111060.55509 | 1766082.62185   1111060.55461 | 1766082.62233 1111010.55509           |
| 98  | 1765875.72000 | 1110816.72000 | 1765875.72000 | 1110866.72000 | 1765925.71952 1110866.71952   |                                       |
| 99  | 1766126.73020 | 1110766.21890 | 1766126.73020 | 1110816.21890 | 1766176.72972   1110816.21842 |                                       |
| 100 | 1766021.20576 | 1110854.17591 | 1766021.20576 | 1110904.17591 | 1766071.20529 1110904.17543   | 1766071.20576 1110854.17591           |
| 101 | 1765953.13973 | 1110458.84450 | 1765953.13973 | 1110508.84450 | 1766003.13979 1110508.84450   | 1766003.13973 1110458.84450           |
| 102 | 1765934.18000 | 1110374.12000 | 1765934.18000 | 1110424.12000 | 1765984.17952 1110424.11952   | 1765984.18000 1110374.12000           |
| 103 | 1766009.02163 | 1110192.75526 | 1766009.02163 | 1110242.75526 | 1766059.02115   1110242.75478 | 1 1766059.02163 1110192.75526         |
| 104 | 1766050.36337 | 1110371.20220 | 1766050.36337 | 1110421.20220 | 1766100.36289 1110421.2017    | 1766100.36337 1110371.20220           |
| 105 | 1764923.09527 | 1111450.08663 | 1764923.09527 | 1111500.08663 | 1764973.09479 1111500.08615   |                                       |
| 106 | 1764932.48501 | 1111317.64258 | 1764932.48501 | 1111367.64258 | 1764982.48453 1111367.64210   |                                       |
| 107 | 1765047.83824 | 1111322.35041 | 1765047.83824 | 1111372.35041 | 1765097.83776 1111372.34993   | 1765097.83824 1111322.35041           |
| 108 | 1765049.12000 | 1111401.24000 | 1765049.12000 | 1111451.24000 | 1765099.11952 1111451.23952   |                                       |
| 109 | 1764181.00000 | 1112169.00000 | 1764181.00000 | 1112219.00000 | 1764231.00000 1112219.00000   | 1764231.00000 1112169.00000           |
| 110 | 1764087.00000 | 1112128.00000 | 1764087.00000 | 1112178.00000 | 1764137.00000 1112178.00000   | 1764137.00000 11112128.00000          |
| 111 | 1764224.87000 | 1112041.84000 | 1764224.87000 | 1112091.84000 | 1764274.87000 1112091.84000   | 1764274.87000 1112041.84000           |
| 112 | 1764323.00000 | 1112114.00000 | 1764323.00000 | 1112164.00000 | 1764373.00000 1112164.00000   | 1764373.00000 1112114.00000           |
| 113 | 1762575.00000 | 1112204.00000 | 1762575.00000 | 1112254.00000 | 1762625.00000 1112254.00000   | 1762625.00000 1112204.00000           |
| 114 | 1762519.00000 | 1112118.00000 | 1762519.00000 | 1112168.00000 | 1762569.00000 1112168.00000   |                                       |
| 115 | 1762602.00000 | 1112040.00000 | 1762602.00000 | 1112090.00000 | 1762652.00000 1112090.00000   | 1762652.00000 1112040.00000           |
| 116 | 1762652.00000 | 1112134.00000 | 1762652.00000 | 1112184.00000 | 1762702.00000 1112184.00000   | 1762702.00000 1112134.00000           |
| 117 | 1762884.00000 | 1112301.00000 | 1762884.00000 | 1112351.00000 | 1762934.00000 1112351.00000   |                                       |
| 118 | 1762823.00000 | 1112204.00000 | 1762823.00000 | 1112254.00000 | 1762873.00000 1112254.00000   |                                       |
| 119 | 1762893.00000 | 1112121.00000 | 1762893.00000 | 1112171.00000 | 1762943.00000 1112171.00000   | 1762943.00000 1112121.00000           |



| 120 | 1762961.00000 | 1112204.00000 | 1762961.00000 | 1112254.00000 | 1763011.00000 | 1112254.00000 | 1763011.00000 | 1112204.00000 |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 121 | 1763927.15680 | 1111363,61740 | 1763927.15680 | 1111413.61740 | 1763977.15680 | 1111413.61730 | 1763977.15680 | 1111363.61730 |
| 122 | 1763821,18350 | 1111317.33640 | 1763821.18350 | 1111367.33640 | 1763871.18350 | 1111367.33640 | 1763871.18340 | 1111317.33640 |
| 123 | 1763780.65630 | 1111187,97280 | 1763780.65630 | 1111237,97280 | 1763830.65630 | 1111237.97280 | 1763830.65630 | 1111187.97280 |
| 124 | 1763903.48630 | 1111297.26880 | 1763903.48630 | 1111347.26880 | 1763953.48630 | 1111347.26870 | 1763953.48630 | 1111297.26870 |
| 125 | 1763762.89380 | 1110992.65420 | 1763762.89380 | 1111042.65420 | 1763812.89380 | 1111042.65420 | 1763812.89380 | 1110992.65420 |
| 126 | 1763670.01050 | 1111001.50680 | 1763670.01050 | 1111051.50680 | 1763720.01050 | 1111051.50680 | 1763720.01050 | 1111001.50680 |
| 127 | 1763682.02510 | 1111642.22940 | 1763682.02510 | 1111692.22940 | 1763732.02510 | 1111692.22940 | 1763732.02510 | 1111642.22940 |
| 128 | 1763608.51850 | 1111598.90750 | 1763608.51850 | 1111648.90750 | 1763658.51850 | 1111648.90750 | 1763658.51850 | 1111598.90750 |
| 129 | 1763243.60020 | 1111217.10030 | 1763243.60020 | 1111267.10030 | 1763293.60020 | 1111267.10030 | 1763293.60020 | 1111217.10030 |
| 130 | 1763098.14080 | 1111121.00000 | 1763098.14080 | 1111171.64080 | 1763148.14080 | 1111171.64080 | 1763148.14080 | 1111121.64080 |
| 131 | 1763176.73860 | 1111137.77250 | 1763176.73860 | 1111187.77250 | 1763226.73860 | 1111187.77250 | 1763226.73860 | 1111137.77250 |
| 132 | 1763325.36280 | 1111314.54110 | 1763325.36280 | 1111364.54110 | 1763375.36280 | 1111364.54110 | 1763375.36280 | 1111314.54110 |
| 133 | 1763412.76250 | 1111387.08290 | 1763412.76250 | 1111437.08290 | 1763462.76250 | 1111437.08290 | 1763462.76250 | 1111387.08290 |
| 134 | 1763415.53490 | 1111300.96620 | 1763415.53490 | 1111350.98620 | 1763465.53490 | 1111350.96620 | 1763465.53490 | 1111300.96620 |
| 135 | 1763513.64990 | 1111344.25880 | 1763513.64990 | 1111394.25880 | 1763563.64990 | 1111394.25880 | 1763563.64990 | 1111344.25880 |
| 136 | 1763493.27090 | 1111478.08100 | 1763493.27090 | 1111528.08100 | 1763543,27090 | 1111528.08100 | 1763543.27090 | 1111478.08100 |
| 137 | 1763461.07420 | 1111036.38800 | 1763461.07420 | 1111086.38800 | 1763511.07420 | 1111086.38800 | 1763511.07420 | 1111036.38800 |
| 138 | 1763563.86320 | 1110971.82480 | 1763563.86320 | 1111021.82480 | 1763613.86320 | 1111021.82480 | 1763613,86320 | 1110971.82480 |
| 139 | 1763352.59510 | 1110798.39670 | 1763352.59510 | 1110848.39670 | 1763402.59510 | 1110848.39670 | 1763402.59510 | 1110798.39670 |
| 140 | 1763426.13660 | 1110826.61270 | 1763426.13660 | 1110876.61270 | 1763476.13660 | 1110876.61270 | 1763476.13660 | 1110826.61270 |
| 141 | 1763599.36110 | 1111515.03510 | 1763599.36110 | 1111565.03510 | 1763649.36110 | 1111565.03510 | 1763649.36110 | 1111515.03510 |
| 142 | 1763748.48620 | 1111668.18610 | 1763748.48620 | 1111718.18610 | 1763798.48620 | 1111718.18610 | 1763798.48620 | 1111668.18610 |
| 143 | 1762761.00000 | 1111362.00000 | 1762761.00000 | 1111412.00000 | 1762811.00000 | 1111412.00000 | 1762811.00000 | 1111362.00000 |
| 144 | 1762824.00000 | 1111450.00000 | 1762824.00000 | 1111500.00000 | 1762874.00000 | 1111500.00000 | 1762874.00000 | 1111450.00000 |
| 145 | 1763327.00000 | 1111713.00000 | 1763327.00000 | 1111763.00000 | 1763377.00000 | 1111763.00000 | 1763377.00000 | 1111713.00000 |
| 146 | 1763276.00000 | 1111626.00000 | 1763276.00000 | 1111676.00000 | 1763326.00000 | 1111676.00000 | 1763326.00000 | 1111626.00000 |
| 147 | 1763350.00000 | 1111550.00000 | 1763350.00000 | 1111600.00000 | 1763400.00000 | 1111600.00000 | 1763400.00000 | 1111550.00000 |
| 148 | 1763401.00000 | 1111638,00000 | 1763401.00000 | 1111688.00000 | 1763451.00000 | 1111688.00000 | 1763451.00000 | 1111638.00000 |
| 149 | 1763860.00000 | 1111813,00000 | 1763860.00000 | 1111863.00000 | 1763910.00000 | 1111863.00000 | 1763910.00000 | 1111813.00000 |
| 150 | 1763772.00000 | 1111770.00000 | 1763772.00000 | 1111820.00000 | 1763822.00000 | 1111820.00000 | 1763822.00000 | 1111770.00000 |
| 151 | 1763851.00000 | 1111687.00000 | 1763851.00000 | 1111737.00000 | 1763901.00000 | 1111737.00000 | 1763901.00000 | 1111687.00000 |
| 152 | 1763995,00000 | 1111735.00000 | 1763995,00000 | 1111785.00000 | 1764045.00000 | 1111785,00000 | 1764045.00000 | 1111735.00000 |
| 153 | 1764025.31370 | 1111518,47140 | 1764025.31370 | 1111568.47140 | 1764075.31370 | 1111587,47140 | 1764075.31370 | 1111518.47140 |
| 154 | 1763952.02400 | 1111491,91500 | 1763952.02400 | 1111541.91500 | 1764002.02400 | 1111541.91500 | 1764002.02400 | 1111491.91500 |
| 155 | 1763979.83370 | 1111426.48720 | 1763979.83370 | 1111476.48720 | 1764029.83370 | 1111476.48710 | 1764029.83370 | 1111426.48710 |
| 156 | 1763674.00000 | 1111340.00000 | 1763674.00000 | 1111390.00000 | 1763724.00000 | 1111390.00000 | 1763724.00000 | 1111340.00000 |
| 157 | 1765861.00000 | 1111781.00000 | 1765861.00000 | 1111831.00000 | 1765911.00000 | 1111831.00000 | 1765911.00000 | 1111781.00000 |
| 158 | 1765798.00000 | 1111700.00000 | 1765798.00000 | 1111750.00000 | 1765848.00000 | 1111750.00000 | 1765848.00000 | 1111700.00000 |
| 159 | 1765884.00000 | 1111643.00000 | 1765884.00000 | 1111693.00000 | 1765934.00000 | 1111693.00000 | 1765934.00000 | 1111643.00000 |



| 160 | 1765948.00000 | 1111725.00000 | 1765948.00000 | 1111775,00000 | 1765998.00000 | 1111775.00000 | 1765998.00000 | 1111725.00000 |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 161 | 1766375.00000 | 1111941.00000 | 1766375.00000 | 1111991.00000 | 1766425.00000 | 1111991.00000 | 1766425.00000 | 1111941.00000 |
| 162 | 1766280.00000 | 1111902.00000 | 1766280.00000 | 1111952.00000 | 1766330.00000 | 1111952.00000 | 1766330.00000 | 1111902.00000 |
| 163 | 1766365.00000 | 1111826.00000 | 1766365.00000 | 1111876.00000 | 1766415,00000 | 1111876.00000 | 1766415.00000 | 1111826.00000 |
| 164 | 1766458.00000 | 1111879.00000 | 1766458.00000 | 1111929.00000 | 1766508.00000 | 1111929.00000 | 1766508.00000 | 1111879.00000 |
| 165 | 1762635.50150 | 1111052,35020 | 1762635.50150 | 1111102.35020 | 1762685.50150 | 1111102.35020 | 1762685.50150 | 1111052.00000 |
| 166 | 1762845.23210 | 1111068.76180 | 1762845.23210 | 1111118.76180 | 1762895.23210 | 1111118.76180 | 1762895.23210 | 1111068.76180 |
| 167 | 1762801.37660 | 1110948.53010 | 1762801.37660 | 1110998.53010 | 1762851.37660 | 1110998.53010 | 1762851.37660 | 1110948.53010 |
| 168 | 1762742.00000 | 1111057.00000 | 1762742.00000 | 1111107.00000 | 1762792.00000 | 1111107.00000 | 1752792.00000 | 1111057.00000 |
| 169 | 1763037.00000 | 1110950.00000 | 1763037.00000 | 1111000.00000 | 1763087.00000 | 1111000.00000 | 1763087.00000 | 1110950.00000 |
| 170 | 1762929.00000 | 1110931.00000 | 1762929.00000 | 1110981.00000 | 1762979.00000 | 1110981.00000 | 1762979.00000 | 1110931.00000 |
| 171 | 1762929.00000 | 1110831.00000 | 1762929.00000 | 1110881.00000 | 1762979.00000 | 1110881,00000 | 1762979.00000 | 1110831.00000 |
| 172 | 1763039.81200 | 1110876.21400 | 1763039.81200 | 1110926.21400 | 1763089.81200 | 1110926,21400 | 1763089.81200 | 1110876.21400 |
| 173 | 1763659.91580 | 1111123.76660 | 1763659.91580 | 1111173.76660 | 1763709.91580 | 1111173.76660 | 1763709.91580 | 1111123.76660 |
| 174 | 1763627.22410 | 1111240.17340 | 1763627.22410 | 1111290.17340 | 1763677.22410 | 1111290.17340 | 1763677.22410 | 1111240.17340 |
| 175 | 1763514.97390 | 1111161.57230 | 1763514.97390 | 1111211.57230 | 1763564.97390 | 1111211.57230 | 1763564.97390 | 1111161.57230 |
| 176 | 1763573.59250 | 1111085.93480 | 1763573.59250 | 1111135.93480 | 1763623.59250 | 1111135.93480 | 1763623.59250 | 1111085.93480 |
| 177 | 1763980.00000 | 1111136.00000 | 1763980.00000 | 1111186.00000 | 1764030.00000 | 1111186.00000 | 1764030.00000 | 1111136.00000 |
| 178 | 1763900.00000 | 1111087.00000 | 1763900.00000 | 1111137.00000 | 1763950.00000 | 1111137.00000 | 1763950.00000 | 1111087.00000 |
| 179 | 1763991.00000 | 1111013.00000 | 1763991.00000 | 1111063.00000 | 1764041.00000 | 1111063.00000 | 1764041.00000 | 1111013.00000 |
| 180 | 1764077.00000 | 1111092.00000 | 1764077.00000 | 1111142.00000 | 1764127.00000 | 1111142.00000 | 1764127.00000 | 1111092.00000 |
| 181 | 1764425.00000 | 1111120.00000 | 1764425.00000 | 1111170.00000 | 1764475.00000 | 1111170,00000 | 1764475.00000 | 1111120.00000 |
| 182 | 1764343.00000 | 1111036.00000 | 1764343.00000 | 1111086.00000 | 1764393.00000 | 1111086.00000 | 1764393.00000 | 1111036.00000 |
| 183 | 1764419,00000 | 1110957.00000 | 1764419.00000 | 1111007.00000 | 1764469.00000 | 1111007.00000 | 1764469.00000 | 1110957.00000 |
| 184 | 1764487.00000 | 1111028.00000 | 1764487.00000 | 1111078.00000 | 1764537.00000 | 1111078.00000 | 1764537.00000 | 1111028.00000 |
| 185 | 1766758.00000 | 1111393.00000 | 1766758.00000 | 1111443.00000 | 1766808.00000 | 1111443.00000 | 1766808.00000 | 1111393.00000 |
| 186 | 1766660.00000 | 1111300.00000 | 1766660.00000 | 1111350.00000 | 1766710.00000 | 1111350.00000 | 1766710.00000 | 1111300.00000 |
| 187 | 1766755.00000 | 1111213.00000 | 1766755.00000 | 1111263.00000 | 1766805.00000 | 1111263.00000 | 1766805.00000 | 1111213.00000 |
| 188 | 1766821.00000 | 1111299.00000 | 1766821.00000 | 1111349.00000 | 1766871.00000 | 1111349.00000 | 1766871.00000 | 1111299.00000 |
| 189 | 1767071.00000 | 1111519,00000 | 1767071.00000 | 1111569.00000 | 1767121.00000 | 1111569.00000 | 1767121.00000 | 1111519.00000 |
| 190 | 1767042.00000 | 1111427.00000 | 1767042.00000 | 1111477.00000 | 1767092.00000 | 1111477.00000 | 1767092.00000 | 1111427.00000 |
| 191 | 1767112.00000 | 1111370.00000 | 1767112.00000 | 1111420.00000 | 1767162.00000 | 1111420.00000 | 1767162.00000 | 1111370.00000 |
| 192 | 1767162.00000 | 1111448.00000 | 1767162.00000 | 1111498.00000 | 1767212.00000 | 1111498.00000 | 1767212.00000 | 1111448.00000 |
| 193 | 1763259,00000 | 1110663.00000 | 1763259.00000 | 1110713.00000 | 1763309.00000 | 1110713.00000 | 1763309.00000 | 1110663.00000 |
| 194 | 1763206.00000 | 1110592.00000 | 1763206.00000 | 1110642.00000 | 1763256.00000 | 1110642.00000 | 1763256.00000 | 1110592.00000 |
| 195 | 1763248.00000 | 1110525.00000 | 1763248.00000 | 1110575.00000 | 1763298.00000 | 1110575.00000 | 1763298.00000 | 1110525.00000 |
| 196 | 1763331.00000 | 1110611.00000 | 1763331.00000 | 1110661.00000 | 1763381.00000 | 1110661.00000 | 1763381.00000 | 1110611.00000 |
| 197 | 1763754.00000 | 1110637.00000 | 1763754.00000 | 1110687.00000 | 1763804.00000 | 1110687.00000 | 1763804.00000 | 1110637.00000 |
| 198 | 1763673.00000 | 1110555.00000 | 1763673.00000 | 1110605.00000 | 1763723.00000 | 1110605.00000 | 1763723.00000 | 1110555.00000 |
| 199 | 1763745.00000 | 1110469.00000 | 1763745.00000 | 1110519.00000 | 1763795.00000 | 1110519.00000 | 1763795.00000 | 1110469,00000 |



| 200 | 1763836,00000 | 1110565.00000 | 1763836.00000 | 1110615.00000 | 1763886.00000 | 1110615.00000 | 1763886.00000 | 1110565.00000 |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 201 | 1764136.00000 | 1110701.00000 | 1764136.00000 | 1110751.00000 | 1764186,00000 | 1110751.00000 | 1764186.00000 | 1110701.00000 |
| 202 | 1764056,00000 | 1110651.00000 | 1764056.00000 | 1110701.00000 | 1764106.00000 | 1110701.00000 | 1764106.00000 | 1110651.00000 |
| 203 | 1764141.00000 | 1110565.00000 | 1764141.00000 | 1110615.00000 | 1764191.00000 | 1110615.00000 | 1764191.00000 | 1110565.00000 |
| 204 | 1764235.00000 | 1110638.00000 | 1764235.00000 | 1110688.00000 | 1764285.00000 | 1110688.00000 | 1764285.00000 | 1110638.00000 |
| 205 | 1764495.00000 | 1110807.00000 | 1764495.00000 | 1110857.00000 | 1764545.00000 | 1110857.00000 | 1764545.00000 | 1110807.00000 |
| 206 | 1764415.00000 | 1110743.00000 | 1764415.00000 | 1110793.00000 | 1764465.00000 | 1110793.00000 | 1764465.00000 | 1110743.00000 |
| 207 | 1764496.00000 | 1110666.00000 | 1764496.00000 | 1110716.00000 | 1764546.00000 | 1110716.00000 | 1764546.00000 | 1110666.00000 |
| 208 | 1764529.00000 | 1110726.00000 | 1764529.00000 | 1110776,00000 | 1764579.00000 | 1110776.00000 | 1764579.00000 | 1110726.00000 |
| 209 | 1764971.00000 | 1110775.00000 | 1764971.00000 | 1110825.00000 | 1765021.00000 | 1110825.00000 | 1765021.00000 | 1110775.00000 |
| 210 | 1764898.00000 | 1110684,00000 | 1764898.00000 | 1110734.00000 | 1764948.00000 | 1110734.00000 | 1764948.00000 | 1110684.00000 |
| 211 | 1764976.00000 | 1110649.00000 | 1764976,00000 | 1110699.00000 | 1765026.00000 | 1110699.00000 | 1765026.00000 | 1110649.00000 |
| 212 | 1765106.00000 | 1110697.00000 | 1765106.00000 | 1110747.00000 | 1765156.00000 | 1110747.00000 | 1765156.00000 | 1110697.00000 |
| 213 | 1765326.00000 | 1110913.00000 | 1765326.00000 | 1110963.00000 | 1765376.00000 | 1110963.00000 | 1765376.00000 | 1110913.00000 |
| 214 | 1765256,00000 | 1110806.00000 | 1765256.00000 | 1110856.00000 | 1765306.00000 | 1110856.00000 | 1765306.00000 | 1110806.00000 |
| 215 | 1765330.00000 | 1110725.00000 | 1765330.00000 | 1110775.00000 | 1765380.00000 | 1110775.00000 | 1765380.00000 | 1110725.00000 |
| 216 | 1765353.21022 | 1110810.07605 | 1765353.21022 | 1110860.07605 | 1765403.21022 | 1110860.07605 | 1765403.21022 | 1110810.07605 |
| 217 | 1765733.00000 | 1110730,00000 | 1765733.00000 | 1110780.00000 | 1765783.00000 | 1110780.00000 | 1765783.00000 | 1110730.00000 |
| 218 | 1765665.00000 | 1110651,00000 | 1765665.00000 | 1110701.00000 | 1765715.00000 | 1110701.00000 | 1765715.00000 | 1110651.00000 |
| 219 | 1765747.00000 | 1110587,00000 | 1765747.00000 | 1110637.00000 | 1765797.00000 | 1110637.00000 | 1765797.00000 | 1110587.00000 |
| 220 | 1765815.00000 | 1110668.00000 | 1765815.00000 | 1110718.00000 | 1765865.00000 | 1110718.00000 | 1765865.00000 | 1110668.00000 |
| 221 | 1766708.00000 | 1110920.00000 | 1766708.00000 | 1110970.00000 | 1766758.00000 | 1110970.00000 | 1766758,00000 | 1110920.00000 |
| 222 | 1766643.00000 | 1110859.00000 | 1766643.00000 | 1110909.00000 | 1766693.00000 | 1110909.00000 | 1766693.00000 | 1110859.00000 |
| 223 | 1766732.00000 | 1110811.00000 | 1766732.00000 | 1110861.00000 | 1766782.00000 | 1110861.00000 | 1766782.00000 | 1110811.00000 |
| 224 | 1766800.00000 | 1110883.00000 | 1766800.00000 | 1110933.00000 | 1766850.00000 | 1110933.00000 | 1766850.00000 | 1110883.00000 |
| 225 | 1763681.00000 | 1110189.00000 | 1763681.00000 | 1110239.00000 | 1763731.00000 | 1110239.00000 | 1763731.00000 | 1110189.00000 |
| 226 | 1763603.00000 | 1110115.00000 | 1763603.00000 | 1110165.00000 | 1763653.00000 | 1110165,00000 | 1763653,00000 | 1110115.00000 |
| 227 | 1763668.00000 | 1110054.00000 | 1763668.00000 | 1110104.00000 | 1763718.00000 | 1110104.00000 | 1763718.00000 | 1110054.00000 |
| 228 | 1763759.00000 | 1110106.00000 | 1763759.00000 | 1110156.00000 | 1763809.00000 | 1110156.00000 | 1763809.00000 | 1110106,00000 |
| 229 | 1764347.00000 | 1110355.00000 | 1764347,00000 | 1110405.00000 | 1764397.00000 | 1110405.00000 | 1764397.00000 | 1110355.00000 |
| 230 | 1764286.00000 | 1110282.00000 | 1764286.00000 | 1110332.00000 | 1764336.00000 | 1110332,00000 | 1764336.00000 | 1110282.00000 |
| 231 | 1764359.00000 | 1110228.00000 | 1764359.00000 | 1110278.00000 | 1764409.00000 | 1110278.00000 | 1764409.00000 |               |
| 232 | 1764426.00000 | 1110287.00000 | 1764426.00000 | 1110337.00000 | 1764476.00000 | 1110337.00000 | 1764476.00000 | 1110287.00000 |
| 233 | 1765208.48237 | 1110548.30162 | 1765208.48237 | 1110598.30162 | 1765258.48237 | 1110598,30162 | 1765258.48237 |               |
| 234 | 1765152.67855 | 1110462.79453 | 1765152.67855 | 1110512.79453 | 1765202.67855 | 1110512.79453 | 1765202.67855 | <del></del>   |
| 235 | 1765177.00000 | 1110397.00000 | 1765177.00000 | 1110447.00000 | 1765227.00000 | 1110447.00000 | 1765227,00000 |               |
| 236 | 1765259.00000 | 1110462.00000 | 1765259.00000 | 1110512.00000 | 1765309.00000 | 1110512.00000 | 1765309,00000 | <del></del>   |
| 237 | 1766424.00000 | 1110498.00000 | 1766424.00000 | 1110548.00000 | 1766474.00000 | 1110548.00000 | 1766474.00000 | 1110498.00000 |
| 238 | 1766348.88333 | 1110326.81302 | 1766348.88195 | 1110376.81198 | 1766398.88347 | 1110376.81309 | 1766398.88393 |               |
| 239 | 1766425.00000 | 1110383.00000 | 1768425.00000 | 1110433.00000 | 1766475.00000 | 1110433.00000 | 1766475.00000 | 1110383.00000 |



| 240 | 1766559,00000 | 1110430.00000 | 1766559.00000 | 1110480.00000 | 1766609.00000 1 | 110480.00000  | 1766609.00000 | 1110430.00000 |
|-----|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|
| 241 | 1766961,00000 | 1110509.00000 | 1766961.00000 | 1110559.00000 | 1767011.00000 1 | 110559.00000  | 1767011.00000 | 1110509.00000 |
| 242 | 1766875,00000 | 1110444.00000 | 1766875.00000 | 1110494.00000 | 1766925.00000 1 | 110494.00000  | 1766925.00000 | 1110444.00000 |
| 243 | 1766959.00000 | 1110355.00000 | 1766959.00000 | 1110405.00000 | 1767009.00000 1 | 110405.00000  | 1767009.00000 | 1110355.00000 |
| 244 | 1767049.00000 | 1110447.00000 | 1767049.00000 | 1110497.00000 | 1767099.00000 1 | 110497.00000  | 1767099.00000 | 1110447.00000 |
| 245 | 1764917.00000 | 1110226,00000 | 1764917.00048 | 1110275.99952 | 1764967.00000 1 | 110276.00000  | 1764967.00000 | 1110226.00000 |
| 246 | 1764942.00000 | 1110124.00000 | 1764942.00000 | 1110174.00000 | 1764992.00000 1 | 110174.00000  | 1764992.00000 | 1110124.00000 |
| 247 | 1764960.00000 | 1110050.00000 | 1764960.00000 | 1110100.00000 | 1765010.00000   | 1110100.00000 | 1765010.00000 | 1110050.00000 |
| 248 | 1765026.00000 | 1110127.00000 | 1765026.00000 | 1110177.00000 | 1765076.00000 1 | 110177.00000  | 1765076.00000 | 1110127.00000 |
| 249 | 1765521.00000 | 1110304.00000 | 1765521.00000 | 1110354.00000 | 1765571.00000 1 | 110354.00000  | 1765571.00000 | 1110304.00000 |
| 250 | 1765386.00000 | 1110226.00000 | 1765386.00000 | 1110276.00000 | 1765436.00000 1 | 1110276.00000 | 1765436.00000 | 1110226.00000 |
| 251 | 1765526,00000 | 1110162.00000 | 1765526.00000 | 1110212.00000 | 1765576.00000 1 | 110212.00000  | 1765576.00000 | 1110162.00000 |
| 252 | 1765617.00000 | 1110226.00000 | 1765617.00000 | 1110276.00000 | 1765667.00000 1 | 110276.00000  | 1765667.00000 | 1110226.00000 |
| 253 | 1764750.00000 | 1109938.00000 | 1764750.00000 | 1109988.00000 |                 | 109988.00000  | 1764800.00000 | 1109938.00000 |
| 254 | 1764678.00000 | 1109881.00000 | 1764678.00000 | 1109931.00000 |                 | 109931.00000  | 1764728.00000 | 1109881.00000 |
| 255 | 1764699.00000 | 1109803.00000 | 1764699.00000 | 1109853.00000 |                 | 109853.00000  | 1764749.00000 | 1109803.00000 |
| 256 | 1764841.00000 | 1109887.00000 | 1764841.00000 | 1109937.00000 |                 | 109937.00000  | 1764891.00000 | 1109887.00000 |
| 257 | 1765241.00000 | 1110006.00000 | 1765241.00000 | 1110056.00000 |                 | 110056.00000  | 1765291.00000 | 1110006.00000 |
| 258 | 1765151.00000 | 1109924.00000 | 1765151.00000 | 1109974.00000 |                 | 109974.00000  | 1765201.00000 | 1109924.00000 |
| 259 | 1765229.00000 | 1109825.00000 | 1765229.00000 | 1109875.00000 |                 | 109875.00000  | 1765279,00000 | 1109825.00000 |
| 260 | 1765313.00000 | 1109980.00000 | 1765313.00000 | 1110030.00000 | 1765363.00000 1 | 1110030.00000 | 1765363.00000 | 1109980.00000 |
| 261 | 1766091.00000 | 1110065.00000 | 1766091.00000 | 1110115.00000 | 1766141.00000 1 | 1110115.00000 | 1766141.00000 | 1110065.00000 |
| 262 | 1766022.00000 | 1109963.00000 | 1766022.00000 | 1110013.00000 |                 | 1110013.00000 | 1766072.00000 | 1109963.00000 |
| 263 | 1766101.00000 | 1109876.00000 | 1766101.00000 | 1109926.00000 | <del></del>     | 109926.00000  | 1766151.00000 | 1109876.00000 |
| 264 | 1766140.00000 | 1109989.00000 | 1766140.00000 | 1110039.00000 |                 | 1110039.00000 | 1766190.00000 | 1109989.00000 |
| 265 | 1766648.00000 | 1110223.00000 | 1766648.00000 | 1110273.00000 |                 | 1110273.00000 | 1766698.00000 | 1110223.00000 |
| 266 | 1766570.00000 | 1110128.00000 | 1766570.00000 | 1110178.00000 | <del></del>     | 1110178.00000 | 1766620.00000 | 1110128.00000 |
| 267 | 1766659.00000 | 1110042.00000 | 1766659.00000 | 1110092.00000 |                 | 1110092.00000 | 1766709.00000 | 1110042.00000 |
| 268 | 1766706.00000 | 1110131.00000 | 1766706,00000 | 1110181.00000 | <del></del>     | 1110181.00000 | 1766756.00000 | 1110131.00000 |
| 269 | 1764282.00000 | 1109627.00000 | 1764282,00048 | 1109676.99952 |                 | 1109677.00000 | 1764332.00000 | 1109627.00000 |
| 270 | 1764256.00000 | 1109538,00000 | 1764256.00000 | 1109588.00000 |                 | 1109588.00000 | 1764306.00000 | 1109538.00000 |
| 271 | 1764280.00048 | 1109421.00048 | 1764280.00000 | 1109471.00000 |                 | 1109471,00000 | 1764330.00000 | 1109421.00000 |
| 272 | 1764393.00000 | 1109550.00000 | 1764393.00000 | 1109600.00000 |                 | 1109600.00000 | 1764443.00000 | 1109550.00000 |
| 273 | 1764617.30000 | 1109706.54000 | 1764617,30000 | 1109756.54000 | 1               | 1109756.53952 | 1764667.30000 | 1109706.54000 |
| 274 | 1764540.29748 | 1109617.53692 | 1764540.29748 | 1109667.53692 | <del></del>     | 1109667.53644 | 1764590.29748 | 1109617.53692 |
| 275 | 1764615,30030 | 1109544.54234 | 1764615.30030 | 1109594.54234 | <del></del>     | 1109594.54186 | 1764665.30030 | 1109544.54234 |
| 276 | 1764684,30091 | 1109629.53894 | 1764684.30091 | 1109679.53894 | <del></del>     | 1109679,53846 | 1764734.30091 | 1109629.53894 |
| 277 | 1765545,00000 | 1109796.00000 | 1765545.00000 | 1109846.00000 | <del></del>     | 1109846,00000 | 1765595.00000 | 1109796.00000 |
| 278 | 1765517.00000 | 1109710.00000 | 1765517.00000 | 1109760.00000 |                 | 1109760.00000 | 1765567.00000 | 1109710.00000 |
| 279 | 1765675.00000 | 1109632.00000 | 1765675.00000 | 1109682,00000 | 1765725.00000 1 | 1109682.00000 | 1765725.00000 | 1109632.00000 |



| 280          | 1765649,00000 | 1109749.00000 | 1765649,00000 | 1109799.00000 | 1765699.00000 | 1109799.00000 | 1765699.00000 | 1109749.00000 |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <del> </del> |               |               |               |               |               |               |               |               |
| 281          | 1766078.00000 | 1109599.00000 | 1766078.00000 | 1109649.00000 | 1766128.00000 | 1109649.00000 | 1766128.00000 | 1109599.00000 |
| 282          | 1765982.00000 | 1109550.00000 | 1765982.00000 | 1109600.00000 | 1766032.00000 | 1109600.00000 | 1766032,00000 | 1109550.00000 |
| 283          | 1766069.00000 | 1109479.00000 | 1766069.00000 | 1109529.00000 | 1766119.00000 | 1109529.00000 | 1766119.00000 | 1109479.00000 |
| 284          | 1766164.00000 | 1109537.00000 | 1766164.00000 | 1109587.00000 | 1766214.00000 | 1109587.00000 | 1766214.00000 | 1109537.00000 |
| 285          | 1764698.00000 | 1109243.00000 | 1764698.00000 | 1109293.00000 | 1764748.00000 | 1109293.00000 | 1764748.00000 | 1109243.00000 |
| 286          | 1764599,00000 | 1109224.00000 | 1764599,00000 | 1109274.00000 | 1764649.00000 | 1109274.00000 | 1764649.00000 | 1109224.00000 |
| 287          | 1764683.30437 | 1109070.29410 | 1764683.30437 | 1109120.29410 | 1764733.30389 | 1109120.29362 | 1764733.30437 | 1109070.29410 |
| 288          | 1764607.77603 | 1109054.41125 | 1764607.77603 | 1109104.41125 | 1764657.77555 | 1109104.41077 | 1764657.77603 | 1109054.41125 |
| 289          | 1765154.00000 | 1109288.00000 | 1765154.00000 | 1109338.00000 | 1765204.00000 | 1109338.00000 | 1765204.00000 | 1109288.00000 |
| 290          | 1765071.00000 | 1109223.00000 | 1765071.00000 | 1109273.00000 | 1765121.00000 | 1109273.00000 | 1765121.00000 | 1109223.00000 |
| 291          | 1765163.00000 | 1109162.00000 | 1765163.00000 | 1109212.00000 | 1765213.00000 | 1109212.00000 | 1765213.00000 | 1109162.00000 |
| 292          | 1765241,00000 | 1109234.00000 | 1765241.00000 | 1109284.00000 | 1765291.00000 | 1109284.00000 | 1765291.00000 | 1109234.00000 |
| 293          | 1765689,00000 | 1109268.00000 | 1765689.00000 | 1109318.00000 | 1765739.00000 | 1109318.00000 | 1765739.00000 | 1109268.00000 |
| 294          | 1765577.00000 | 1109204.00000 | 1765577.00000 | 1109254.00000 | 1765627.00000 | 1109254.00000 | 1765627.00000 | 1109204.00000 |
| 295          | 1765693,00000 | 1109133.00000 | 1765693.00000 | 1109183.00000 | 1765743.00000 | 1109183.00000 | 1765743.00000 | 1109133.00000 |
| 296          | 1765760.00000 | 1109208.00000 | 1765760.00000 | 1109258.00000 | 1765810.00000 | 1109258.00000 | 1765810.00000 | 1109208.00000 |
| 297          | 1765209.00000 | 1108810.00000 | 1765209.00000 | 1108860.00000 | 1765259.00000 | 1108860.00000 | 1765259.00000 | 1108810.00000 |
| 298          | 1765206.00000 | 1108738.00000 | 1765206.00000 | 1108788,00000 | 1765256.00000 | 1108788.00000 | 1765256.00000 | 1108738.00000 |
| 299          | 1765285.00000 | 1108673.00000 | 1765285.00000 | 1108723.00000 | 1765335.00000 | 1108723.00000 | 1765335.00000 | 1108673.00000 |
| 300          | 1765278.00000 | 1108747.00000 | 1765278.00000 | 1108797.00000 | 1765328.00000 | 1108797.00000 | 1765328.00000 | 1108747.00000 |



| 1         1764339,00000         1114152,00000         1764339,00000         1114202,00000         1764389,00000         1114202,00000         1764389,00000         1764259,00000         1764259,00000         111417,00000         1764309,00000         111417,00000         1764300,0000         111477,00000         1764300,0000         111477,00000 </th <th>SE_Y_COORD</th>  | SE_Y_COORD    |
|--|---------------|
| 3   1764250.21911   1113923.17752   1764250.24162   1113973.12424   1764300.22700   1113973.12400   1764300.22694   4   1764423.00000   1114083.00000   1764423.00000   1764473.00000   1764473.30000   1764473.30000   1764473.30000   1764473.30000   1764473.30000   1764473.30000   1764473.30000   1764473.30000   1764473.30000   1764473.00000   1764473.00000   1764473.40000   1764473.40000   1764473.40000   1764473.40000   1764473.40000   1764473.40000   1764473.40000   1764473.40000   1764273.00000   1764467.00000   1764674.00000   1764   |               |
| 4         1764423.00000         1114083.00000         1764423.00000         1764473.00000         1764473.00000         1764473.00000         1764473.00000         1764453.37100         1113913.98800         1764453.37132         1113963.98821         1764503.12484         1113964.20232         1764503.38578           6         1764447.00000         111377.00000         1764417.00000         1113787.00000         1764457.00000         1113787.00000         1764467.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764477.00000         1764567.22185         1713818.57111         1764567.00000         1764567.22185         1713818.57111         1764567.00000         1764567.00000         1764567.00000         1764567.00000         1764567.00000         1764567.00000         1764018.87409         1764068.77410         1713690.5985         1764068.77400         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000         1764568.00000 </td <td>1114097.00000</td>  | 1114097.00000 |
| 5         1764453.37100         1113913.98800         1764453.37132         1113963.98821         1764205.312484         1113964.20623         1764503.38578           6         1764245.04727         1113812.86699         1764245.04700         1113862.88120         1764295.04092         1113862.88188         1764295.34205           7         1764417.00000         111377.00000         1764417.00000         1113787.00000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.0000         1113867.2016  | 1113923.22534 |
| 6         1764245.04727         1113812.86699         1764245.04700         1113862.88200         1764295.04092         1113862.88188         1764295.34205           7         1764417.00000         1113737.00000         1764417.00000         1113767.00000         1764567.00000         1113767.00000         1764567.00000         1113863.70001         1113863.70000         1764567.22185         1113818.57111         1764567.24342         9 1763941.22145         1113757.16754         1763941.24922         1113807.22416         176391.18066         1113807.32093         1763991.18100         10 1763912.01562         1113643.98583         1763911.88860         1113693.98341         1783981.96055         1113893.89903         1763981.96100         11 1764018.87400         1113690.03400         1764178.16900         1113694.03400         176418.87409         1113690.3945         1764088.77401         1113893.95400         1764173.16900         1113853.95400         1764173.16900         1113853.95400         1764173.16900         1113853.95400         1764173.16900         1113849.00000         1764566.00000         11136416.00000         1764223.15229         1113634.00354         1764223.15229         1113634.00354         1764223.15229         1113634.00000         176467666.00000         11136416.00000         17645666.00000         11136416.00000         17645666.00000         1113644.00000         1  | 1114083.00000 |
| 7         1764417.00000         1113737.00000         1764417.00000         1113787.00000         1764467.00000         176457.10457         1113788.34701         176457.19500         1113818.57100         7764567.22185         1113818.57111         1764567.24342         9         1763941.22145         1113767.16754         1763941.24922         1113807.32093         1763991.13000         176391.13000         176391.13000         176391.13000         176391.13000         176391.13000         176391.13000         176391.13000         176391.13000         1764018.87400         1113640.03400         1764018.87400         1113640.03400         1764018.87400         1113634.03400         1764018.87400         1113634.03400         1764018.87400         1113690.03405         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.51965         1764068.77410         1113690.03000         1764068.77410         1113690.03000         1764068.77410         1113690.03000         1764068.77410         1113690.030  | 1113913.98824 |
| 8         1764517.19457         1113768.34701         1764517.19500         1113818.57100         1764567.22185         1113818.57111         1764567.24342           9         1763941.22145         1113757.16754         1763941.24922         1113607.28416         17639991.18066         1113807.32093         1763991.18100           10         1763912.01562         1113643.98583         1763911.88860         1113693.98341         1763961.96055         1113693.89903         1763981.981600           11         1764018.87400         1113640.03400         1764018.87409         1113690.34955         7764068.77410         1113690.51965         1764068.77400           12         1764173.16900         1113570.0000         1764456.00000         1113634.02857         1764223.15229         1113634.03144         1764223.08239           13         1764566.00000         1113570.00000         1764556.00000         1173449.00000         1764566.00000         1764694.00000         1764694.00000         1764694.00000         1764695.00000         1764695.00000         1764695.00000         1764695.00000         1764695.00000         1764695.00000         1764695.00000         1764698.00000         1764697.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.000   | 1113812.51370 |
| 9 1763941.22145 1113757.16754 1763941.24922 1113807.28416 1763991.18068 1113807.32093 1763991.18100 10 1763912.01562 1113643.98583 1763911.88860 1113693.98341 1763961.96055 1113893.99903 1763961.96100 11 1764018.87400 1113640.03400 1764018.87409 1113690.03405 1764068.77410 1113690.51965 1764068.77400 12 1764713.16900 1113583.95400 1764173.16904 1113630.03400 1764023.15229 1113634.03144 1764223.08239 13 1764566.00000 1113370.00000 1764566.00000 1113620.00000 1764616.00000 1113620.00000 1764616.00000 1764544.00000 1764544.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764545.00000 1764577.00000 1764577.00000 1764577.00000 1764577.00000 1764577.00000 1764577.00000 1764577.00000 1764577.00000 1764577.0000 | 1113737.00000 |
| 10   | 1113768.37664 |
| 11         1764018.87400         1113640.03400         1764018.87409         1113690.03405         1764068.77410         1113690.51965         1764068.77400           12         1764173.16900         1113583.95400         1764173.16904         1113634.02857         1764223.15229         1113634.03144         1764223.08239           13         1764566.00000         1113494.00000         1764566.00000         1113644.00000         1764618.00000         1113644.00000         1764555.00000         1113440.00000         1764555.00000         1113440.00000         1764555.00000         1113440.00000         1764555.00000         1764555.00000         1764555.00000         1764555.00000         1764607.00000         1764607.00000         1764607.00000         1764607.00000         1764607.00000         1764607.00000         1764607.00000         1764607.00000         1764607.00000         17647607.00000         17647607.00000         17647607.00000         17647607.00000         17647607.00000         17647607.00000         17647607.00000         176476760.00000         176476760.00000         176476760.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.00000         17647660.  | 1113757.16800 |
| 12         1764173.16900         1113583.95400         1764173.16904         1113634.02857         1764223.15229         1113634.03144         1764223.08239           13         1764566.00000         1113570.00000         1764566.00000         1113620.00000         1764616.00000         1764616.00000         1764616.00000         1764616.00000         1764616.00000         1764564.00000         1764564.00000         1764564.00000         1764565.00000         1113544.00000         1764565.00000         1113543.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764788.00000         1764886.00000         1764886.00000         1764886.00000         1764887.00000         1764887.00000         1764886.00000         1764887.00000         1763868.00000         1763788.00000         1763788.00000         1763789.00000         1763789.00000         1763789.000  | 1113643.98600 |
| 13         1764566.00000         1113570.00000         1764566.00000         1113620.00000         1764616.00000         1764616.00000         1764616.00000         1764616.00000         1764616.00000         1764616.00000         1764616.00000         1764544.00000         1113620.00000         1764544.00000         1764544.00000         1764544.00000         1764555.00000         1113544.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764768.00000   | 1113640.03400 |
| 14         1784494.00000         1113494.00000         1764494.00000         1784544.00000         1784544.00000         1784544.00000         1784544.00000         1784544.00000         1784544.00000         1784605.00000         178470.0000   | 1113583.95379 |
| 15         1764555.00000         1113412.00000         1764555.00000         1113462.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764605.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764657.00000         1764688.00000         1764768.00000   | 1113570.00000 |
| 16         1764607.00000         1113493.00000         1764607.00000         1113543.00000         1764657.00000         1764657.00000         1764657.00000         1764798.00000         1764657.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764798.00000         1764769.00000         1763776.00000         1763776.00000   | 1113494.00000 |
| 17         1764798.00000         1113694.00000         1764798.00000         1113744.00000         1764848.00000         1113744.00000         1764848.00000         1764768.00000         1763768.00000         1763768.00000         1763768.00000         1763768.00000         1763768.00000         1763768.00000         1763776.00000   | 1113412.00000 |
| 18         1764718.00000         1113674.00000         1764718.00000         1764768.00000         1764768.00000         1764768.00000         1764768.00000         1764768.00000         1764768.00000         1764768.00000         1764768.00000         1764868.00000         1764868.00000         1764868.00000         1764868.00000         1764868.00000         1764868.00000         1764868.00000         1764916.00000   | 1113493.00000 |
| 19         1764787.00000         1113608.00000         1764787.00000         1113658.00000         1764837.00000         1764837.00000         1764837.00000         1764837.00000         1764837.00000         1764837.00000         1764916.00000         1113698.00000         1764916.00000   | 1113694.00000 |
| 20         1764866.00000         1113648.00000         1764866.00000         1113698.00000         1764916.00000         1764916.00000           21         1763656.00000         1113485.00000         1763656.00000         1113535.00000         1763706.00000         1763706.00000           22         1763586.00000         1113419.00000         1763586.00000         1113469.00000         1763636.00000         1763679.00000         1763729.00000         17642720.00000         17642720.00000         17642720.00000  | 1113674.00000 |
| 21         1763656.00000         1113485.00000         1763656.00000         1133535.00000         1763706.00000         1763706.00000           22         1763586.00000         1113419.00000         1763586.00000         1113469.00000         1763636.00000         1763636.00000         1763636.00000         1763636.00000         1763729.00000         1113445.00000         1763729.00000         1764270.00000         1764270.00000         1764270.00000         1764270.00000         1764270.00000         1764270.00000         1764270.00000         1764274.000000         1764274.000000         1764274.000000         1764274.  | 1113608.00000 |
| 22         1763586.00000         1113419.00000         1763586.00000         1763636.00000         1763636.00000         1763636.00000         1763636.00000         1763636.00000         1763636.00000         1763636.00000         1763729.00000         1713445.00000         1763729.00000         1764727.00000   | 1113648.00000 |
| 23         1763679.00000         1113395.00000         1763679.00000         1763729.00000         1113445.00000         1763729.00000           24         1763748.00000         1113413.00000         1763748.00000         1113463.00000         1763798.00000         1113463.00000         1763798.00000           25         1764220.00000         1113425.00000         1764220.00000         1113475.00000         1764270.00000         1764270.00000         1764270.00000         1764270.00000         1764200.00000         1764200.00000         1764200.00000         1764200.00000         1764274.00000         176   | 1113485.00000 |
| 24         1763748.00000         1113413.00000         1763748.00000         1763798.00000         1113463.00000         1763798.00000         1763798.00000         1763798.00000         1763798.00000         1763798.00000         1763798.00000         1764270.00000   | 1113419.00000 |
| 25         1764220.00000         1113425.00000         1764220.00000         1764270.00000         1764270.00000         1113475.00000         1113475.00000         1764270.00000           26         1764150.00000         1113350.00000         1764150.00000         1113400.00000         1764200.00000         1113400.00000         1764200.00000         1764200.00000         1764274.00000         1113306.00000         1764274.00000         1113306.00000         1764274.00000         1113400.00000         1764350.00000         1764350.00000         1764350.00000         1764350.00000         1764350.00000         1764595.00000         1113269.00000         1764595.00000         1764595.00000         1764544.00000         1764544.00000         1764544.00000         1764574.00000         1764574.00000         1764577.00000         1764577.00000         1764577.00000         1764577.00000         1764577.00000         1764577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646577.00000         17646627.00000         17646627.00000         17646627.00000         17646627.00000         17646627.00000         17646627.00000         17646627.00000   | 1113395.00000 |
| 26         1764150.00000         1113350.00000         1764150.00000         1113400.00000         1764200.00000         1113400.00000         1113400.00000         1113400.00000         1764200.00000           27         1764224.00000         1113256.00000         1764224.00000         1113306.00000         1764274.00000         1113306.00000         1764274.00000           28         1764300.00000         1113350.00000         1764300.00000         1113400.00000         1764350.00000         1113400.00000         1764350.00000         1764595.00000         1113269.00000         1764595.00000         1764595.00000         1764595.00000         1764544.00000         1113186.00000         1764544.00000         1113186.00000         1764544.00000         1113067.00000         1764574.00000         1764574.00000         1764574.00000         1764574.00000         1764627.00000         176   | 1113413.00000 |
| 27         1764224.00000         1113256.00000         1764224.00000         1113306.00000         1764274.00000         1113306.00000         1113306.00000         1113306.00000         1764274.00000           28         1764300.00000         1113350.00000         1764300.00000         1764350.00000         1113400.00000         1764350.00000         1113269.00000         1764595.00000         1113269.00000         1764595.00000         1764595.00000         1764595.00000         1113186.00000         1764544.00000         1113186.00000         1764544.00000         1113186.00000         1764574.00000         1764574.00000         1764574.00000         1764577.00000         1764577.00000         17646577.00000         1764627.00000         1113175.00000         1764627.000000         1764627.000000         1764627.000000         1764627  | 1113425.00000 |
| 28         1764300.00000         1113350.00000         1764300.00000         1113400.00000         1764350.00000         1113400.00000         1113400.00000         1764350.00000           29         1764545.00000         1113219.00000         1764545.00000         1113269.00000         1764595.00000         1113269.00000         1764595.00000         1113186.00000         1764544.00000         1113186.00000         1764544.00000         1113186.00000         1764544.00000         1113067.00000         1764574.00000         1764574.00000         1764574.00000         1764577.00000         1764627.000000         1764627.00000         1764627.00  | 1113350.00000 |
| 29       1764545.00000*       1113219.00000       1764545.00000       1113269.00000       1764595.00000       1113269.00000       1764595.00000         30       1764494.00000       1113136.00000       1764494.00000       1113186.00000       1764544.00000       1113186.00000       1764544.00000         31       1764524.00000       1113017.00000       1764524.00000       1113067.00000       1784574.00000       1113067.00000       1764574.00000         32       1764577.00000       1113125.00000       1764577.00000       1113175.00000       1764627.00000       1113175.00000       1764627.00000   | 1113256.00000 |
| 30         1764494.00000         1113136.00000         1764494.00000         1113186.00000         1764544.00000         1113186.00000         1113186.00000         1113186.00000         1764544.00000           31         1764524.00000         1113017.00000         1764524.00000         1113067.00000         1764574.00000         1113067.00000         1113067.00000         1764574.00000           32         1764577.00000         1113125.00000         1764577.00000         1113175.00000         1113175.00000         1764627.00000   | 1113350.00000 |
| 31         1764524.00000         1113017.00000         1764524.00000         1113067.00000         1764574.00000         113067.00000         1113067.00000         1764574.00000           32         1764577.00000         1113125.00000         1764577.00000         1113175.00000         1764627.00000         1764627.00000   | 1113219,00000 |
| 32 1764577.00000 1113125.00000 1764577.00000 1113175.00000 1764627.00000 1113175.00000 1764627.00000   | 1113136.00000 |
| <u></u>  | 1113017.00000 |
|  | 1113125.00000 |
| 33   1765042.00000   1113466.00000   1765042.00000   1113516.00000   1765092.00000   1113516.00000   1765092.00000   | 1113466.00000 |
| 34 1764968.00000 1113369.00000 1764968.00000 1113419.00000 1765018.00000 1113419.00000 1765018.00000   | 1113369.00000 |
| 35 1765066.00000 1113292.00000 1765066.00000 1113342.00000 1765116.00000 1113342.00000 1765116.00000   | 1113292.00000 |
| 36 1765053.48185 1113384.19397 1765053.48807 1113434.20134 1765103.56522 1113434.09773 1765103.56500   | 1113384.19400 |
| 37 1765019.00000 1113129.00000 1765019.00000 1113179.00000 1765069.00000 1113179.00000 1765069.00000   | 1113129.00000 |
| 38 1765158.18800 1112964.48000 1765158.18755 1113014.41954 1765208.07711 1113014.41021 1765208.03288   | 1112964.48019 |
| 39 1765023.00000 1112979.00000 1765023.00000 1113029.00000 1765073.00000 1113029.00000 1765073.00000   | 1112979.00000 |



| 40 | 1765087.00000 | 1113059.00000 | 1765087.00000 | 1113109.00000 | 1765137.00000 | 1113109.00000 | 1765137.00000 | 1113059.00000 |
|----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 41 | 1765333.00000 | 1113110.00000 | 1765333.00000 | 1113160.00000 | 1765383.00000 | 1113160.00000 | 1765383.00000 | 1113110.00000 |
| 42 | 1765273.00000 | 1113018.00000 | 1765273.00000 | 1113068.00000 | 1765323.00000 | 1113068.00000 | 1765323.00000 | 1113018.00000 |
| 43 | 1765339,00000 | 1112921.00000 | 1765339.00000 | 1112971.00000 | 1765389.00000 | 1112971.00000 | 1765389.00000 | 1112921.00000 |
| 44 | 1765394.00000 | 1113001.00000 | 1765394.00000 | 1113051.00000 | 1765444.00000 | 1113051.00000 | 1765444.00000 | 1113001.00000 |
| 45 | 1763950.00000 | 1113218.00000 | 1763950.00000 | 1113268.00000 | 1764000.00000 | 1113268.00000 | 1764000.00000 | 1113218.00000 |
| 46 | 1763876.00000 | 1113150,00000 | 1763876.00000 | 1113200.00000 | 1763926.00000 | 1113200.00000 | 1763926.00000 | 1113150.00000 |
| 47 | 1763950,00000 | 1113050.00000 | 1763950.00000 | 1113100.00000 | 1764000.00000 | 1113100.00000 | 1764000.00000 | 1113050.00000 |
| 48 | 1764009.00000 | 1113139.00000 | 1764009.00000 | 1113189.00000 | 1764059.00000 | 1113189.00000 | 1764059.00000 | 1113139.00000 |
| 49 | 1763434.00000 | 1113106.00000 | 1763434.00000 | 1113156.00000 | 1763484.00000 | 1113156.00000 | 1763484.00000 | 1113106,00000 |
| 50 | 1763384.00000 | 1113056.00000 | 1763384.00000 | 1113106.00000 | 1763434.00000 | 1113106.00000 | 1763434.00000 | 1113056.00000 |
| 51 | 1763442.00000 | 1112993.00000 | 1763442.00000 | 1113043.00000 | 1763492.00000 | 1113043.00000 | 1763492.00000 | 1112993.00000 |
| 52 | 1763550.00000 | 1113050.00000 | 1763550.00000 | 1113100.00000 | 1763600.00000 | 1113100.00000 | 1763600.00000 | 1113050.00000 |
| 53 | 1763758.00000 | 1112963.00000 | 1763758.00000 | 1113013.00000 | 1763808.00000 | 1113013.00000 | 1763808.00000 | 1112963.00000 |
| 54 | 1763651.00000 | 1112887.00000 | 1763651.00000 | 1112937.00000 | 1763701.00000 | 1112937.00000 | 1763701.00000 | 1112887.00000 |
| 55 | 1763677.54260 | 1112813.75380 | 1763677.54260 | 1112863.75380 | 1763727.54620 | 1112863.75370 | 1763727.54620 | 1112813.75380 |
| 56 | 1763789.00000 | 1112849.00000 | 1763789.00000 | 1112899.00000 | 1763839.00000 | 1112899.00000 | 1763839.00000 | 1112849.00000 |
| 57 | 1764191.00000 | 1112950.00000 | 1764191.00000 | 1113000.00000 | 1764241.00000 | 1113000.00000 | 1764241.00000 | 1112950.00000 |
| 58 | 1764128.00000 | 1112885.00000 | 1764128.00000 | 1112935.00000 | 1764178.00000 | 1112935.00000 | 1764178.00000 | 1112885,00000 |
| 59 | 1764220.00000 | 1112833.00000 | 1764220.00000 | 1112883.00000 | 1764270.00000 | 1112883.00000 | 1764270.00000 | 1112833.00000 |
| 60 | 1764266.00000 | 1112898.00000 | 1764266.00000 | 1112948.00000 | 1764316.00000 | 1112948.00000 | 1764316.00000 | 1112898.00000 |
| 61 | 1764673.00000 | 1112798.00000 | 1764673,00000 | 1112848.00000 | 1764723.00000 | 1112848.00000 | 1764723.00000 | 1112798.00000 |
| 62 | 1764631.00000 | 1112698.00000 | 1764631.00000 | 1112748.00000 | 1764681.00000 | 1112748.00000 | 1764681.00000 | 1112698.00000 |
| 63 | 1764756.00000 | 1112619.00000 | 1764756.00000 | 1112669.00000 | 1764806.00000 |               | 1764806.00000 | 1112619.00000 |
| 64 | 1764792.00000 | 1112716,00000 | 1764792.00000 | 1112766.00000 | 1764842.00000 | 1112766.00000 | 1764842.00000 | 1112716.00000 |
| 65 | 1765114.00000 | 1112700.00000 | 1765114.00000 | 1112750.00000 | 1765164.00000 | 1112750.00000 | 1765164.00000 | 1112700.00000 |
| 66 | 1765049.00000 | 1112622.00000 | 1765049.00000 | 1112672.00000 | 1765099.00000 | 1112672.00000 | 1765099.00000 | 1112622.00000 |
| 67 | 1765117.00000 | 1112540.00000 | 1765117.00000 | 1112590.00000 | 1765167.00000 | 1112590.00000 | 1765167.00000 | 1112540.00000 |
| 68 | 1765181.00000 | 1112601.00000 | 1765181.00000 | 1112651.00000 | 1765231.00000 | 1112651.00000 | 1765231.00000 | 1112601,00000 |
| 69 | 1765468.00000 | 1112781.00000 | 1765468.00000 | 1112831.00000 | 1765518.00000 |               | 1765518.00000 |               |
| 70 | 1765420.00000 | 1112703.00000 | 1765420.00000 | 1112753.00000 | 1765470.00000 | 1112753.00000 | 1765470.00000 |               |
| 71 | 1765483.00000 | 1112649.00000 | 1765483,00000 | 1112699.00000 | 1765533.00000 | 1112699.00000 | 1765533.00000 | <del></del>   |
| 72 | 1765545.00000 | 1112713.00000 | 1765545.00000 | 1112763.00000 | 1765595.00000 | 1112763.00000 | 1765595.00000 |               |
| 73 | 1763187.00000 | 1112905.00000 | 1763187.00000 | 1112955.00000 | 1763237.00000 | 1112955.00000 | 1763237.00000 |               |
| 74 | 1763105.00000 | 1112834.00000 | 1763105.00000 | 1112884.00000 | 1763155.00000 | <del></del>   | 1763155.00000 |               |
| 75 | 1763184.00000 | 1112748.00000 | 1763184.00000 | 1112798.00000 | 1763234,00000 |               | 1763234.00000 |               |
| 76 | 1763251.00000 | 1112824.00000 | 1763251.00000 | 1112874.00000 | 1763301.00000 |               | 1763301.00000 |               |
| 77 | 1765487.86979 | 1111313.57156 | 1765487.86979 | 1111363.57156 | 1765537.86931 |               | 1765537.86979 | <del></del>   |
| 78 | 1765411,43898 | 1111309.39294 | 1765411.43898 | 1111359,39294 | 1765461.43850 |               | 1765461.43898 |               |
| 79 | 1765240.27000 | 1111255.21000 | 1765240.27000 | 1111305.21000 | 1765290.26952 | 1111305.20952 | 1765290.27000 | 1111255.21000 |
|    |               |               |               |               |               |               |               |               |



| 82         1763996,00000         1112374,00000         1763996,00000         1112424,00000         1764046,00000         1112424,00000         1764046,00000         1112424,00000         1764046,00000         1112424,00000         1764046,00000         111238,00000         1764089,00000         111238,00000         1764089,00000         1112338,00000         1764089,00000         1112338,00000         1764089,00000         1112415,00000         1764153,00000         1764153,00000         1764153,00000         1764153,00000         1764277,00000  | 12473.00000  |
|---|--------------|
| 82         1763996.00000         1112374.00000         1763996.00000         1112424.00000         1764046.00000         1112424.00000         1764046.00000         11           83         1764039.00000         1112288.00000         1764039.00000         1112338.00000         1764089.00000         1764089.00000         1764089.00000         11           84         1764103.00000         1112627.00000         1764103.00000         1764153.00000         1764153.00000         1764153.00000         1764153.00000         11           85         1764276.00000         1112627.00000         1764276.00000         1112677.00000         1764326.00000         1112677.00000         1764256.00000         11           86         1764283.00000         1112476.00000         1764283.00000         1764333.00000         1764333.00000         1764333.00000         1764394.00000         1764394.00000         1764394.00000         1764394.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000         1765681.00000  |              |
| 83         1764039.00000         1112288.00000         1764039.00000         1164039.00000         1764089.00000         1764089.00000         1764089.00000         1112338.00000         1764089.00000         1112338.00000         1764089.00000         1112338.00000         1764153.00000         1764153.00000         1764153.00000         1764153.00000         1764153.00000         1764326.00000         1112677.00000         1764326.00000         1112677.00000         1764326.00000         1112677.00000         1764256.00000         1764256.00000         1764256.00000         1764256.00000         1764256.00000         1764333.00000         1764333.00000         1764333.00000         1764394.00000         1764394.00000         1764394.00000         1765681.00000  | 12374.00000  |
| 85         1764276,00000         1112627,00000         1764276,00000         1764326,00000         1112677,00000         1764326,00000         1112677,00000         1764326,00000         1112677,00000         176426,00000         1112624,00000         1112624,00000         1764256,00000         1112624,00000         1764256,00000         1112526,00000         1764333,00000         1112526,00000         1764333,00000         1112526,00000         1764333,00000         1112526,00000         1764333,00000         1112526,00000         1764334,00000         1764334,00000         1764334,00000         1764334,00000         1764334,00000         1764334,00000         1765631,00000   | 12288.00000  |
| 86         1764206,00000         1112574,00000         1764206,00000         1112624,00000         1764256,00000         1112624,00000         1764256,00000         11           87         1764283,00000         1112476,00000         1764283,00000         1112526,00000         1764333,00000         1112526,00000         1764333,00000         1112526,00000         1764394,00000         1764394,00000         1764394,00000         1764394,00000         1764394,00000         1765681,000000         1765681,00000         1765681,00000         1765681,00000         1765681,00000         1765681,00000         1765681,00000         1765681,00000         1765681,00000         1765681,00000         1765681,00000   | 12365.00000  |
| 86         1764206.00000         1112574.00000         1764206.00000         1112624.00000         1764256.00000         1112624.00000         1764256.00000         1764256.00000         1112624.00000         1764333.00000         1112526.00000         1764333.00000         1112526.00000         1764333.00000         1112526.00000         1764333.00000         1112597.00000         1764394.00000         1764394.00000         1764394.00000         1765681.00000  | 12627.00000  |
| 87         1764283,00000         1112476,00000         1764283,00000         1112526,00000         1764333,00000         1112526,00000         1764333,00000         1112526,00000         1764333,00000         11           88         1764344,00000         1112547,00000         1764344,00000         1764394,00000         1112597,00000         1764394,00000         1112597,00000         1765681,00000         11           89         1765631,00000         1112424,00000         1765681,00000         1765681,00000         11   | 12574.00000  |
| 88         1764344.00000         1112547.00000         1764344.00000         1112597.00000         1764394.00000         1112597.00000         1765681.00000         1765681.00000         1112474.00000         1765681.00000         1112474.00000         1112474.00000         1765681.00000         1112474.00000         1765681.00000         1112474.00000         1765681.00000  | 12476.00000  |
| 00 110001.0000 1100.00 | 12547.00000  |
| 90 1765582 00000 1112349 00000 1765562 00000 1112399 00000 1765612 00000 1112399 00000 1765612 00000 11   | 12424.00000  |
| 00   1/0000t/0000   1/000000   //0000000   //0000000   //0000000   //0000000   //0000000   //0000000   //0000000   //00000000   | 12349.00000  |
| 8)   (100000,00000   111Etou.0000   110000,0000   111Etou.0000   111Etou.000   111Etou.000   111Etou.000   111Etou.000   111Et  | 12293.00000  |
| 3Z   11031Z1,00000   1112000.00000   11001Z1,00000   11001Z1,00000  | 12355.00000  |
| 1 00   1100100,0000   11121001000   110010000   110010000   110010000   110010000   110010000   110010000   110010000   1100100000   110010000   110010000   110010000   110010000   11001000000   11001000000   11001000000   11001000000   11001000000   110010000000   1100100000000  | 12168.00000  |
| 34 1100000.00000 1112000.00000  | 12089.00000  |
| 1 33   1700704,00000   1712020,00000   1700704,00000   17120,00000   17120,00000  | 12026.00000  |
| 00 11000-10,00000 111210-1010-1010-1010-1010-1010-10  | 12106.00000  |
| 01 110000C.0C.0C.0C   | 111010.55509 |
| 80   1100010.12000   1110010.12000   1100010.12000   1110010.12000  | 10816.72000  |
| 99 1766126.73020 1110766.21890 1766126.73020 1110816.21890 1766176.72972 1110816.21842 1766176.73020 11   | 10766.21890  |
| 100 1766021.20576 1110854.17591 1766021.20576 1110904.17591 1766071.20529 1110904.17543 1766071.20576 11  | 10854,17591  |
| 101 1700000.10010 1 1110100.1110 1 11101001.10010 1 1 1 1   | 110458.84450 |
| 10L   1100001,10000   1110011,12000   11000111001   11100111001   11100111001   11100111001   11100111001   11100111001   11100111001   11100111001   11100111001   111001100  | 110374.12000 |
|   | 110192.75526 |
| 104 110000,000; 111007.120220 1110000.  | 110371.20220 |
| 100 1701020.00021 (111100.00000 11.01020.0001   | 111450.08663 |
| 100 1107002.70001 1111011.01200 110001 110001 110001  | 111317.64258 |
| [ (0)   )/OUT1.00027   111(1022.0001)   1140011.0001.   | 111322.35041 |
| 100 1100040.12000 1111141.21000 1100010.12000   | 111401.24000 |
| 100   1704101.00000   1112100.0000   170410110000   1.1   | 112169.00000 |
|   | 112128.00000 |
| [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [   | 112041.84000 |
|   | 112114.00000 |
| 1 10   1/0£0/0,0000   1/1EE04/0000   1/0E0/0/0000   1/1EE04/0000   1/1EE04/000   1/1EE04/000   1/1EE04/000   1/1EE04/000   1/1EE04/000   1/1EE04/000   1/1EE  | 112204.00000 |
| 114   1100010:00000   1110:10:10000   1:00000000   1:00000000   1:00000000   1:000000000   1:0000000000   | 112118.00000 |
| 115 1762602.00000 1112040.00000 1762602.00000 1112090.00000 1762652.00000 1112090.00000 1762652.00000 11  | 112040.00000 |
| 116 1762652.00000 1112134.00000 1762652.00000 1112184.00000 1762702.00000 1112184.00000 1762702.00000 11  | 112134.00000 |
|   | 112301.00000 |
| 118   1762823.00000   1112204.00000   1762823.00000   1112254.00000   1762873.00000   1112254.00000   1762873.00000   1   | 112204.00000 |
| 119 1762893.00000 1112121.00000 1762893.00000 1112171.00000 1762943.00000 1112171.00000 1762943.00000 1   | 112121.00000 |



| 120 | 1762961.00000 | 1112204.00000 | 1762961.00000 | 1112254.00000 | 1763011.00000 | 1112254.00000 | 1763011.00000 | 1112204.00000 |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 121 | 1763927.15680 | 1111363.61740 | 1763927.15680 | 1111413.61740 | 1763977.15680 | 1111413.61730 | 1763977.15680 | 1111363.61730 |
| 122 | 1763821.18350 | 1111317.33640 | 1763821.18350 | 1111367.33640 | 1763871.18350 | 1111367.33640 | 1763871.18340 | 1111317.33640 |
| 123 | 1763780.65630 | 1111187.97280 | 1763780.65630 | 1111237.97280 | 1763830.65630 | 1111237.97280 | 1763830.65630 | 1111187.97280 |
| 124 | 1763903.48630 | 1111297.26880 | 1763903.48630 | 1111347.26880 | 1763953.48630 | 1111347.26870 | 1763953.48630 | 1111297.26870 |
| 125 | 1763762.89380 | 1110992.65420 | 1763762.89380 | 1111042.65420 | 1763812.89380 | 1111042.65420 | 1763812.89380 | 1110992.65420 |
| 126 | 1763670.01050 | 1111001.50680 | 1763670.01050 | 1111051.50680 | 1763720.01050 | 1111051.50680 | 1763720.01050 | 1111001.50680 |
| 127 | 1763682.02510 | 1111642.22940 | 1763682.02510 | 1111692.22940 | 1763732.02510 | 1111692.22940 | 1763732.02510 | 1111642.22940 |
| 128 | 1763608.51850 | 1111598.90750 | 1763608.51850 | 1111648.90750 | 1763658.51850 | 1111648.90750 | 1763658.51850 | 1111598.90750 |
| 129 | 1763243.60020 | 1111217.10030 | 1763243.60020 | 1111267.10030 | 1763293.60020 | 1111267.10030 | 1763293.60020 | 1111217.10030 |
| 130 | 1763098.14080 | 1111121.00000 | 1763098.14080 | 1111171.64080 | 1763148.14080 | 1111171.64080 | 1763148.14080 | 1111121.64080 |
| 131 | 1763176.73860 | 1111137.77250 | 1763176.73860 | 1111187.77250 | 1763226.73860 | 1111187.77250 | 1763226.73860 | 1111137.77250 |
| 132 | 1763325.36280 | 1111314.54110 | 1763325.36280 | 1111364.54110 | 1763375.36280 | 1111364.54110 | 1763375.36280 | 1111314.54110 |
| 133 | 1763412.76250 | 1111387.08290 | 1763412.76250 | 1111437.08290 | 1763462.76250 | 1111437.08290 | 1763462.76250 | 1111387.08290 |
| 134 | 1763415.53490 | 1111300.96620 | 1763415.53490 | 1111350.96620 | 1763465.53490 | 1111350.96620 | 1763465.53490 | 1111300.96620 |
| 135 | 1763513.64990 | 1111344.25880 | 1763513.64990 | 1111394.25880 | 1763563.64990 | 1111394.25880 | 1763563.64990 | 1111344.25880 |
| 136 | 1763493.27090 | 1111478.08100 | 1763493.27090 | 1111528.08100 | 1763543.27090 | 1111528.08100 | 1763543.27090 | 1111478.08100 |
| 137 | 1763461.07420 | 1111036.38800 | 1763461.07420 | 1111086.38800 | 1763511.07420 | 1111086.38800 | 1763511.07420 | 1111036.38800 |
| 138 | 1763563.86320 | 1110971.82480 | 1763563.86320 | 1111021.82480 | 1763613.86320 | 1111021.82480 | 1763613.86320 | 1110971.82480 |
| 139 | 1763352.59510 | 1110798.39670 | 1763352.59510 | 1110848.39670 | 1763402.59510 | 1110848.39670 | 1763402.59510 | 1110798.39670 |
| 140 | 1763426.13660 | 1110826.61270 | 1763426.13660 | 1110876.61270 | 1763476.13660 | 1110876.61270 | 1763476.13660 | 1110826.61270 |
| 141 | 1763599.36110 | 1111515.03510 | 1763599.36110 | 1111565,03510 | 1763649.36110 | 1111565,03510 | 1763649.36110 | 1111515.03510 |
| 142 | 1763748.48620 | 1111668.18610 | 1763748.48620 | 1111718.18610 | 1763798.48620 | 1111718.18610 | 1763798.48620 | 1111668.18610 |
| 143 | 1762761.00000 | 1111362.00000 | 1762761.00000 | 1111412.00000 | 1762811.00000 | 1111412.00000 | 1762811.00000 | 1111362.00000 |
| 144 | 1762824.00000 | 1111450.00000 | 1762824.00000 | 1111500.00000 | 1762874.00000 | 1111500.00000 | 1762874.00000 | 1111450.00000 |
| 145 | 1763327.00000 | 1111713.00000 | 1763327.00000 | 1111763.00000 | 1763377.00000 | 1111763.00000 | 1763377.00000 | 1111713.00000 |
| 146 | 1763276.00000 | 1111626.00000 | 1763276.00000 | 1111676.00000 | 1763326.00000 | 1111676.00000 | 1763326.00000 | 1111626.00000 |
| 147 | 1763350.00000 | 1111550.00000 | 1763350.00000 | 1111600.00000 | 1763400.00000 | 1111600.00000 | 1763400.00000 | 1111550.00000 |
| 148 | 1763401.00000 | 1111638.00000 | 1763401.00000 | 1111688.00000 | 1763451.00000 | 1111688.00000 | 1763451.00000 | 1111638.00000 |
| 149 | 1763860.00000 | 1111813.00000 | 1763860.00000 | 1111863.00000 | 1763910.00000 | 1111863.00000 | 1763910.00000 | 1111813.00000 |
| 150 | 1763772.00000 | 1111770.00000 | 1763772.00000 | 1111820.00000 | 1763822.00000 | 1111820.00000 | 1763822.00000 | 1111770.00000 |
| 151 | 1763851.00000 | 1111687.00000 | 1763851.00000 | 1111737.00000 | 1763901.00000 | 1111737.00000 | 1763901.00000 | 1111687.00000 |
| 152 | 1763995.00000 | 1111735.00000 | 1763995.00000 | 1111785.00000 | 1764045.00000 | 1111785.00000 | 1764045.00000 | 1111735.00000 |
| 153 | 1764025,31370 | 1111518.47140 | 1764025.31370 | 1111568.47140 | 1764075.31370 | 1111567.47140 | 1764075.31370 | 1111518.47140 |
| 154 | 1763952.02400 | 1111491.91500 | 1763952.02400 | 1111541.91500 | 1764002.02400 | 1111541.91500 | 1764002.02400 | 1111491.91500 |
| 155 | 1763979.83370 | 1111426.48720 | 1763979.83370 | 1111476.48720 | 1764029.83370 | 1111476.48710 | 1764029.83370 | 1111426.48710 |
| 156 | 1763674.00000 | 1111340,00000 | 1763674.00000 | 1111390.00000 | 1763724.00000 | 1111390.00000 | 1763724.00000 | 1111340.00000 |
| 157 | 1765861.00000 | 1111781.00000 | 1765861.00000 | 1111831,00000 | 1765911.00000 | 1111831.00000 | 1765911.00000 | 1111781.00000 |
| 158 | 1765798.00000 | 1111700.00000 | 1765798.00000 | 1111750.00000 | 1765848.00000 | 1111750.00000 | 1765848.00000 | 1111700.00000 |
| 159 | 1765884.00000 | 1111643.00000 | 1765884.00000 | 1111693.00000 | 1765934.00000 | 1111693.00000 | 1765934.00000 | 1111643.00000 |



| 160 | 1765948.00000 | 1111725.00000 | 1765948.00000 | 1111775.00000 | 1765998.00000   1111775.00000 | 1765998.00000 1111725.00000   |
|-----|---------------|---------------|---------------|---------------|-------------------------------|-------------------------------|
| 161 | 1766375.00000 | 1111941.00000 | 1766375.00000 | 1111991.00000 | 1766425.00000 1111991.00000   | 1766425.00000 1111941.00000   |
| 162 | 1766280.00000 | 1111902.00000 | 1766280.00000 | 1111952.00000 | 1766330,00000 1111952.00000   | 1766330.00000 1111902.00000   |
| 163 | 1766365.00000 | 1111826.00000 | 1766365.00000 | 1111876.00000 | 1766415.00000 1111876.00000   | 1766415.00000 1111826.00000   |
| 164 | 1766458.00000 | 1111879.00000 | 1766458.00000 | 1111929.00000 | 1766508.00000 1111929.00000   | 1766508.00000 1111879.00000   |
| 165 | 1762635.50150 | 1111052.35020 | 1762635.50150 | 1111102,35020 | 1762685.50150 1111102.35020   | 1762685.50150 1111052.00000   |
| 166 | 1762845.23210 | 1111068.76180 | 1762845.23210 | 1111118.76180 | 1762895.23210 1111118.76180   | 1762895.23210 1111068.76180   |
| 167 | 1762801.37660 | 1110948.53010 | 1762801.37660 | 1110998.53010 | 1762851,37660 1110998,53010   | 1762851.37660 1110948.53010   |
| 168 | 1762742.00000 | 1111057.00000 | 1762742.00000 | 1111107.00000 | 1762792.00000 1111107.00000   | 1762792.00000 1111057.00000   |
| 169 | 1763037,00000 | 1110950.00000 | 1763037.00000 | 1111000.00000 | 1763087.00000 1111000.00000   | 1763087.00000 1110950.00000   |
| 170 | 1762929.00000 | 1110931.00000 | 1762929.00000 | 1110981.00000 | 1762979.00000 1110981.00000   | 1762979.00000 1110931.00000   |
| 171 | 1762929.00000 | 1110831.00000 | 1762929.00000 | 1110881.00000 | 1762979.00000 1110881.00000   | 1762979,00000 1110831.00000   |
| 172 | 1763039.81200 | 1110876.21400 | 1763039.81200 | 1110926.21400 | 1763089.81200 1110926.21400   | 1763089.81200 1110876.21400   |
| 173 | 1763659.91580 | 1111123.76660 | 1763659.91580 | 1111173.76660 | 1763709.91580 1111173.76660   | 1763709.91580 1111123.76660   |
| 174 | 1763627.22410 | 1111240.17340 | 1763627.22410 | 1111290.17340 | 1763677.22410 1111290.17340   | 1763677.22410 1111240.17340   |
| 175 | 1763514.97390 | 1111161.57230 | 1763514.97390 | 1111211.57230 | 1763564.97390 1111211.57230   |                               |
| 176 | 1763573.59250 | 1111085.93480 | 1763573.59250 | 1111135.93480 | 1763623.59250 1111135.93480   | 1763623.59250 1111085.93480   |
| 177 | 1763980.00000 | 1111136.00000 | 1763980.00000 | 1111186.00000 | 1764030.00000 1111186.00000   | 1764030.00000   1111136.00000 |
| 178 | 1763900.00000 | 1111087.00000 | 1763900.00000 | 1111137.00000 | 1763950.00000 1111137.00000   | 1763950.00000 1111087.00000   |
| 179 | 1763991.00000 | 1111013.00000 | 1763991.00000 | 1111063.00000 | 1764041.00000 1111063.00000   | 1764041.00000 1111013.00000   |
| 180 | 1764077.00000 | 1111092.00000 | 1764077.00000 | 1111142.00000 | 1764127.00000 11111142.00000  | 1764127.00000 1111092.00000   |
| 181 | 1764425.00000 | 1111120.00000 | 1764425.00000 | 1111170.00000 | 1764475.00000 1111170.00000   | 1764475.00000 11111120.00000  |
| 182 | 1764343.00000 | 1111036.00000 | 1764343.00000 | 1111086.00000 | 1764393.00000 1111086.00000   | 1764393.00000 1111036.00000   |
| 183 | 1764419.00000 | 1110957,00000 | 1764419.00000 | 1111007.00000 | 1764469.00000 1111007.00000   | 1764469.00000 1110957.00000   |
| 184 | 1764487.00000 | 1111028.00000 | 1764487.00000 | 1111078.00000 | 1764537.00000 1111078.00000   | 1764537.00000 1111028.00000   |
| 185 | 1766758.00000 | 1111393.00000 | 1766758.00000 | 1111443.00000 | 1766808.00000 1111443.00000   | 1766808.00000 1111393.00000   |
| 186 | 1766660.00000 | 1111300.00000 | 1766660.00000 | 1111350.00000 | 1766710.00000 1111350.00000   | 1766710.00000 1111300.00000   |
| 187 | 1766755.00000 | 1111213.00000 | 1766755.00000 | 1111263.00000 | 1766805.00000 1111263.00000   | 1766805.00000 1111213.00000   |
| 188 | 1766821.00000 | 1111299,00000 | 1766821.00000 | 1111349.00000 | 1766871.00000 1111349.00000   | 1766871.00000 1111299.00000   |
| 189 | 1767071.00000 | 1111519.00000 | 1767071.00000 | 1111569.00000 | 1767121.00000 1111569.00000   | 1767121.00000 1111519.00000   |
| 190 | 1767042.00000 | 1111427.00000 | 1767042.00000 | 1111477.00000 | 1767092.00000 1111477.00000   | 1767092.00000 1111427.00000   |
| 191 | 1767112.00000 | 1111370.00000 | 1767112.00000 | 1111420.00000 | 1767162.00000 11111420.00000  | 1767162.00000 1111370.00000   |
| 192 | 1767162.00000 | 1111448.00000 | 1767162.00000 | 1111498.00000 | 1767212.00000 1111498.00000   | 1767212.00000 1111448.00000   |
| 193 | 1763259.00000 | 1110663.00000 | 1763259.00000 | 1110713.00000 | 1763309.00000 1110713.00000   | 1763309.00000 1110663.00000   |
| 194 | 1763206.00000 | 1110592.00000 | 1763206.00000 | 1110642.00000 | 1763256.00000 1110642.00000   | 1763256.00000 1110592.00000   |
| 195 | 1763248.00000 | 1110525.00000 | 1763248.00000 | 1110575.00000 | 1763298.00000 1110575.00000   | 1763298.00000 1110525.00000   |
| 196 | 1763331.00000 | 1110611.00000 | 1763331.00000 | 1110661.00000 | 1763381.00000 1110661.00000   | 1763381.00000 1110611.00000   |
| 197 | 1763754.00000 | 1110637.00000 | 1763754.00000 | 1110687.00000 | 1763804.00000 1110687.00000   | 1763804.00000 1110637.00000   |
| 198 | 1763673.00000 | 1110555.00000 | 1763673.00000 | 1110605.00000 | 1763723.00000 1110605.00000   | 1763723.00000 1110555.00000   |
| 199 | 1763745.00000 | 1110469.00000 | 1763745.00000 | 1110519.00000 | 1763795.00000 1110519.00000   | 1763795.00000 1110469.00000   |



| 200 | 1763836.00000 | 1110565.00000 | 1763836.00000 | 1110615.00000 | 1763886.00000 1110615.0000   | 0   1763886.00000   1110565.00000 |
|-----|---------------|---------------|---------------|---------------|------------------------------|-----------------------------------|
| 201 | 1764136.00000 | 1110701.00000 | 1764136.00000 | 1110751.00000 | 1764186.00000 1110751.0000   | 0   1764186.00000   1110701.00000 |
| 202 | 1784056.00000 | 1110651.00000 | 1764056.00000 | 1110701.00000 | 1764106.00000 1110701.0000   | 0   1764106.00000   1110651.00000 |
| 203 | 1764141.00000 | 1110565.00000 | 1764141.00000 | 1110615.00000 | 1764191.00000 1110615.0000   | 0   1764191.00000   1110565.00000 |
| 204 | 1764235.00000 | 1110638.00000 | 1764235.00000 | 1110688.00000 | 1764285.00000 1110688.0000   | 0 1764285.00000 1110638.00000     |
| 205 | 1764495.00000 | 1110807.00000 | 1764495.00000 | 1110857.00000 | 1764545.00000 1110857.0000   | 0   1764545.00000   1110807.00000 |
| 206 | 1764415.00000 | 1110743.00000 | 1764415.00000 | 1110793.00000 | 1764465.00000 1110793.0000   | 0   1764465.00000   1110743.00000 |
| 207 | 1764496.00000 | 1110666.00000 | 1764496.00000 | 1110716.00000 | 1764546.00000 1110716.0000   | 0 1764546.00000 1110666.00000     |
| 208 | 1764529.00000 | 1110726.00000 | 1764529.00000 | 1110776.00000 | 1764579.00000 1110776.0000   | 0   1764579.00000   1110726.00000 |
| 209 | 1764971.00000 | 1110775.00000 | 1764971.00000 | 1110825.00000 | 1765021.00000 1110825.0000   | 0 1765021.00000 1110775.00000     |
| 210 | 1784898.00000 | 1110684.00000 | 1764898.00000 | 1110734.00000 | 1764948.00000 1110734.0000   | 0   1764948.00000   1110684.00000 |
| 211 | 1764976.00000 | 1110649.00000 | 1764976.00000 | 1110699.00000 | 1765026.00000 1110699.0000   | 0 1765026.00000 1110649.00000     |
| 212 | 1765106.00000 | 1110697.00000 | 1765106.00000 | 1110747.00000 | 1765156.00000 1110747.0000   | 0   1765156.00000   1110697.00000 |
| 213 | 1765326.00000 | 1110913.00000 | 1765326.00000 | 1110963.00000 | 1765376.00000   1110963.0000 | 0   1765376.00000   1110913.00000 |
| 214 | 1765256.00000 | 1110806.00000 | 1765256.00000 | 1110856.00000 | 1765306.00000   1110856.0000 | 0   1765306.00000   1110806.00000 |
| 215 | 1765330.00000 | 1110725.00000 | 1765330.00000 | 1110775.00000 | 1765380.00000 1110775.0000   | 0   1765380.00000   1110725.00000 |
| 216 | 1765353.21022 | 1110810.07605 | 1765353,21022 | 1110860.07605 | 1765403.21022   1110860.0760 | 5   1765403,21022   1110810.07605 |
| 217 | 1765733.00000 | 1110730.00000 | 1765733,00000 | 1110780.00000 | 1765783.00000 1110780.0000   | 0 1765783.00000 1110730.00000     |
| 218 | 1765665.00000 | 1110651.00000 | 1765665.00000 | 1110701.00000 | 1765715.00000 1110701.0000   | 0 1765715.00000 1110651.00000     |
| 219 | 1765747.00000 | 1110587.00000 | 1765747.00000 | 1110637.00000 | 1765797.00000 1110637.0000   | 0   1765797.00000   1110587.00000 |
| 220 | 1765815.00000 | 1110668.00000 | 1765815.00000 | 1110718.00000 | 1765865.00000 1110718.0000   |                                   |
| 221 | 1766708.00000 | 1110920.00000 | 1766708.00000 | 1110970,00000 | 1766758.00000 1110970.0000   |                                   |
| 222 | 1766643.00000 | 1110859.00000 | 1766643.00000 | 1110909.00000 | 1766693.00000 1110909.0000   |                                   |
| 223 | 1766732.00000 | 1110811.00000 | 1766732.00000 | 1110861.00000 | 1766782,00000 1110861,0000   |                                   |
| 224 | 1766800.00000 | 1110883,00000 | 1766800.00000 | 1110933.00000 | 1766850.00000 1110933.0000   |                                   |
| 225 | 1763681.00000 | 1110189.00000 | 1763681,00000 | 1110239.00000 | 1763731.00000   1110239.0000 | _                                 |
| 226 | 1763603.00000 | 1110115.00000 | 1763603.00000 | 1110165.00000 | 1763653.00000 1110165.0000   |                                   |
| 227 | 1763668.00000 | 1110054.00000 | 1763668.00000 | 1110104.00000 | 1763718.00000 1110104.0000   |                                   |
| 228 | 1763759.00000 | 1110106.00000 | 1763759.00000 | 1110156,00000 | 1763809.00000 1110156.0000   |                                   |
| 229 | 1764347.00000 | 1110355.00000 | 1764347.00000 | 1110405.00000 | 1764397.00000 1110405.0000   |                                   |
| 230 | 1764286.00000 | 1110282.00000 | 1764286.00000 | 1110332.00000 | 1764336.00000 1110332.0000   |                                   |
| 231 | 1764359.00000 | 1110228.00000 | 1764359.00000 | 1110278.00000 | 1764409.00000 1110278.0000   |                                   |
| 232 | 1764426.00000 | 1110287.00000 | 1764426.00000 | 1110337.00000 | 1764476.00000 1110337.0000   |                                   |
| 233 | 1765208,48237 | 1110548.30162 | 1765208.48237 | 1110598.30162 | 1765258.48237 1110598.3016   | 2 1765258.48237 1110548.30162     |
| 234 | 1765152.67855 | 1110462.79453 | 1765152.67855 | 1110512.79453 | 1765202.67855 1110512.7945   |                                   |
| 235 | 1765177.00000 | 1110397.00000 | 1765177.00000 | 1110447.00000 | 1765227.00000 1110447.0000   | 0 1765227.00000 1110397.00000     |
| 236 | 1765259.00000 | 1110462.00000 | 1765259.00000 | 1110512.00000 | 1765309.00000 1110512.0000   | 0 1765309.00000 1110462.00000     |
| 237 | 1768424.00000 | 1110498.00000 | 1766424.00000 | 1110548.00000 | 1766474.00000 1110548.0000   | 0 1766474.00000 1110498.00000     |
| 238 | 1766348.88333 | 1110326.81302 | 1766348.88195 | 1110376.81198 | 1766398.88347 1110376.8130   | 9 1766398.88393 1110326.81444     |
| 239 | 1766425.00000 | 1110383.00000 | 1766425.00000 | 1110433.00000 | 1766475.00000 1110433.0000   | 0 1766475.00000 1110383.00000     |



|     | <b>4</b>      |               |                                | SVIERNE                                 | <b>ER</b>     |                          |                  |                  |
|-----|---------------|---------------|--------------------------------|---|---------------|--------------------------|------------------|------------------|
|     | •             |               | 4700550 00000 T                | 1110480.00000                           | 1766609.00000 | 1110480.00000            | 1766609.00000    | 1110430.00000    |
| 240 | 1766559.00000 | 1110430.00000 | 1766559.00000                  |   |               | 1110559.00000            | 1767011.00000    | 1110509.00000    |
| 241 | 1766961.00000 | 1110509.00000 | 1766961.00000                  |   |               | 1110494.00000            | 1766925.00000    | 1110444.00000    |
| 242 | 1766875.00000 | 1110444,00000 | 1766875.00000                  |   | 1767009.00000 | 1110405.00000            | 1767009.00000    | 1110355.00000    |
| 243 | 1766959.00000 | 1110355.00000 | 1766959.00000                  |   | 1767099.00000 | 1110497.00000            | 1767099.00000    | 1110447.00000    |
| 244 | 1767049.00000 | 1110447.00000 | 1767049.00000                  |   | 1764967.00000 | 1110276.00000            | 1764967.00000    | 1110226.00000    |
| 245 | 1764917.00000 | 1110226.00000 | 1764917.00048                  | 1110174.00000                           | 1764992.00000 | 1110174.00000            | 1764992.00000    | 1110124.00000    |
| 246 | 1764942.00000 | 1110124.00000 | 1764942.00000                  | 1110100.00000                           | 1765010.00000 | 1110100.00000            | 1765010.00000    | 1110050.00000    |
| 247 | 1764960.00000 | 1110050.00000 | 1764960.00000                  | 1110177.00000                           | 1765076.00000 | 1110177.00000            | 1765076.00000    |                  |
| 248 | 1765026.00000 | 1110127.00000 | 1765026.00000                  | 1110354.00000                           | 1765571.00000 | 1110354.00000            | 1765571,00000    |                  |
| 249 | 1765521.00000 | 1110304.00000 | 1765521.00000                  | 1110276.00000                           | 1765436.00000 | 1110276.00000            | 1765436.00000    |                  |
| 250 | 1765386.00000 | 1110226.00000 | 1765386.00000                  | 1110212.00000                           | 1765576.00000 | 1110212.00000            | 1765576.00000    |                  |
| 251 | 1765526.00000 | 1110162.00000 | 1765526.00000                  | 1110276.00000                           | 1765667.00000 | 1110276.00000            | 1765667.00000    |                  |
| 252 | 1765617.00000 | 1110226.00000 | 1765617.00000                  | 1109988.00000                           | 1764800.00000 | 1109988.00000            | 1764800.00000    |                  |
| 253 | 1764750.00000 | 1109938.00000 | 1764750.00000                  | 1109931.00000                           | 1764728.00000 | 1109931.00000            | 1764728.00000    |                  |
| 254 | 1764678.00000 | 1109881.00000 | 1764678.00000                  | 1109853.00000                           | 1764749.00000 | 1109853.00000            | 1764749.00000    |                  |
| 255 | 1764699.00000 | 1109803.00000 | 1764699.00000                  | 1109937.00000                           | 1764891.00000 | 1109937.00000            | 1764891.00000    |                  |
| 256 | 1764841.00000 | 1109887.00000 | 1764841.00000                  | 1110056.00000                           | 1765291.00000 | 1110056.00000            | 1765291.00000    |                  |
| 257 | 1765241.00000 | 1110006.00000 | 1765241.00000                  | 1109974.00000                           | 1765201.00000 | 1109974.00000            | 1765201.00000    |                  |
| 258 | 1765151.00000 | 1109924.00000 | 1765151.00000                  | 1109875.00000                           | 1765279.00000 | 1109875.00000            | 1765279.00000    |                  |
| 259 | 1765229.00000 | 1109825.00000 | 1765229.00000                  | 1110030.00000                           | 1765363.00000 | 1110030.00000            | 1765363.00000    |                  |
| 260 | 1765313.00000 | 1109980.00000 | 1765313.00000                  | 1110115.00000                           | 1766141.00000 | 1110115.00000            | 1766141.00000    |                  |
| 261 | 1766091.00000 | 1110065.00000 | 1766091.00000<br>1766022.00000 | 1110013.00000                           | 1766072.00000 | 1110013.00000            | 1766072.00000    |                  |
| 262 | 1766022.00000 | 1109963.00000 | 1766101.00000                  | 1109926.00000                           | 1766151.00000 | 1109926.00000            | 1766151.00000    |                  |
| 263 | 1766101.00000 | 1109876.00000 | 1766140.00000                  | 1110039.00000                           | 1766190.00000 |                          | 1766190.0000     |                  |
| 264 | 1766140.00000 | 1109989.00000 | 1766648.00000                  | 1110273.00000                           | 1766698.00000 |                          | 1766698.0000     |                  |
| 265 | 1766648.00000 | 1110223.00000 | 1766570.00000                  | 1110178.00000                           | 1766620.00000 |                          | 1766620.0000     |                  |
| 266 | 1766570.00000 | 1110128.00000 | 1766659.00000                  | 1110092.00000                           | 1766709.00000 |                          | 1766709.0000     |                  |
| 267 | 1766659.00000 | 1110042.00000 | 1766706.00000                  | 1110181.00000                           | 1766756.00000 |                          | 1766756.0000     |                  |
| 268 | 1766706.00000 | 1110131.00000 | 1764282.00048                  |   | 1764332.00000 |                          | 1764332.0000     |                  |
| 269 | 1764282.00000 | 1109627.00000 | 1764256.00000                  |   | 1764306.00000 |                          | 1764306.0000     |                  |
| 270 |               | 1109538.00000 |                                |   |               |                          | 1764330.0000     |                  |
| 271 | 1764280.00048 | 1109421.00048 |                                |   |               | 1109600.0000             |                  |                  |
| 272 |               | 1109550.00000 | 1764617.30000                  |   | 1764667.29952 | 2 1109756.5395           |                  |                  |
| 273 |               | 1109706.54000 | <del></del>                    |   | 1764590.2970  | 1109667.5364             | 4 1764590,2974   | 8 1109617.53692  |
| 274 |               |               |                                |   |               | 2   1109 <u>594.5418</u> | 6   1764665.3003 | 1109544.54234    |
| 275 |               | 1109544.54234 |                                |   |               | 3 1109679.5384           | 6 1764734.300    | 1109629,53894    |
| 276 |               | 1109629.53894 |                                |   |               | 0 1109846.0000           |                  | 00 1109796.00000 |
| 277 | 1765545.00000 |               |                                |   |               | 0 1109760.0000           |                  |                  |
| 271 |               |               |                                |   |               |                          | 0 1765725.000    | 00 1109632.00000 |
| 279 | 1765675.00000 | 1109632.00000 | 1103013.00000                  | , |               |                          |                  |                  |
|     |               |               |                                | Dage                                    | . 7           |                          |                  |                  |



|     |               |               |               |               | 47000000000   | 1109799.00000 | 1765699.00000 | 1109749.00000 |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 280 | 1765649.00000 | 1109749.00000 | 1765649.00000 | 1109799.00000 | 1765699.00000 | 1109849.00000 | 1766128.00000 | 1109599.00000 |
| 281 | 1766078.00000 | 1109599.00000 | 1766078.00000 | 1109649.00000 | 1766128.00000 | 1109649.00000 | 1766032.00000 | 1109550.00000 |
| 282 | 1765982.00000 | 1109550.00000 | 1765982.00000 | 1109600.00000 | 1766032.00000 |               | 1766119.00000 | 1109479.00000 |
| 283 | 1766069.00000 | 1109479.00000 | 1766069.00000 | 1109529.00000 | 1766119.00000 | 1109529.00000 | 1766214.00000 | 1109537.00000 |
| 284 | 1766164.00000 | 1109537.00000 | 1766164.00000 | 1109587.00000 | 1766214.00000 | 1109587.00000 |               | 1109243.00000 |
| 285 | 1764698.00000 | 1109243.00000 | 1764698.00000 | 1109293.00000 | 1764748.00000 | 1109293.00000 | 1764748.00000 | 1109224.00000 |
| 286 | 1764599.00000 | 1109224.00000 | 1764599.00000 | 1109274.00000 | 1764649.00000 | 1109274.00000 | 1764649.00000 | 1109224.00000 |
| 287 | 1764683.30437 | 1109070.29410 | 1764683.30437 | 1109120.29410 | 1764733.30389 | 1109120.29362 | 1764733.30437 |               |
| 288 | 1764607.77603 | 1109054.41125 | 1764607.77603 | 1109104.41125 | 1764657.77555 | 1109104.41077 | 1764657.77603 | 1109054.41125 |
| 289 | 1765154.00000 | 1109288.00000 | 1765154.00000 | 1109338.00000 | 1765204.00000 | 1109338.00000 | 1765204.00000 | 1109288.00000 |
| 290 | 1765071.00000 | 1109223.00000 | 1765071.00000 | 1109273.00000 | 1765121.00000 | 1109273.00000 | 1765121.00000 | 1109223.00000 |
| 291 | 1765163.00000 | 1109162.00000 | 1765163.00000 | 1109212.00000 | 1765213.00000 | 1109212.00000 | 1765213.00000 | 1109162.00000 |
|     | 1765241.00000 | 1109234.00000 | 1765241.00000 | 1109284.00000 | 1765291.00000 | 1109284.00000 | 1765291.00000 | 1109234.00000 |
| 292 | 1765689.00000 | 1109268.00000 | 1765689,00000 | 1109318.00000 | 1765739.00000 | 1109318.00000 | 1765739.00000 | 1109268.00000 |
| 293 |               | 1109204.00000 | 1765577.00000 | 1109254.00000 | 1765627.00000 | 1109254.00000 | 1765627.00000 | 1109204.00000 |
| 294 | 1765577.00000 | 1109133.00000 | 1765693.00000 | 1109183.00000 | 1765743.00000 | 1109183.00000 | 1765743.00000 | 1109133.00000 |
| 295 | 1765693.00000 | 1109208.00000 | 1765760.00000 | 1109258.00000 | 1765810.00000 | 1109258.00000 |               | 1109208.00000 |
| 296 | 1765760.00000 | 1108810.00000 | 1765209.00000 | 1108860.00000 | 1765259.00000 | 1108860.00000 | 1765259.00000 | 1108810.00000 |
| 297 | 1765209.00000 | 1             | 1765206.00000 | 1108788.00000 | 1765256.00000 | 1108788.00000 | 1765256.00000 |               |
| 298 | 1765206.00000 | 1108738.00000 | 1765285.00000 | 1108723.00000 | 1765335.00000 | 1108723.00000 | 1765335.00000 | 1108673.00000 |
| 299 | 1765285.00000 | 1108673.00000 |               | 1108797.00000 | 1765328.00000 |               | 1765328.00000 | 1108747.00000 |
| 300 | 1765278.00000 | 1108747.00000 | 1765278.00000 | 1100181.0000  | 1100020.00000 |               |               | -             |

QC RESULTS OF SURVEY DATA



|  | NWY - SWY | NEY-SEY  | SEX-SWX  | NEX-NWX  |
|--|-----------|----------|----------|----------|
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 49.94672  | 49.89866 | 50.00783 | 49.98538 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00021  | 50.21799 | 50.01478 | 49.75352 |
|  | 50.01501  | 50.36816 | 50.29478 | 49.99392 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.22399  | 50.19447 | 50.04885 | 50.02685 |
|  | 50.11662  | 50.15293 | 49.95955 | 49.93144 |
| <u>.</u>   | 49.99758  | 49.91303 | 49.94538 | 50.07195 |
| <u> </u>   | 50.00005  | 50.48565 | 49,90000 | 49.90001 |
|  | 50.07457  | 50.07765 | 49.91339 | 49.98325 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
| <del></del>                                      | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>   | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
| l  | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
| <b> </b>   | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>   | 50,00000  | 50.00000 | 50.00000 | 50.00000 |
| <del>                                     </del> | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50,00000  | 50.00000 | 50.00000 | 50.0000  |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
|  | 50.00737  | 49.90373 | 50.08315 | 50.07715 |
| <u> </u>   | 50.00000  | 50.00000 | 50.00000 | 50.00000 |
| <del>-</del>                                     | 49.93954  | 49.93002 | 49.84488 | 49.88956 |
|  | 50.00000  | 50,00000 | 50.00000 | 50,0000  |

| sv | RNER |
|----|------|
|    |      |

|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|----|----------|----------|----------|----------|
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| )~ | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 49.99990 | 50.00360 | 50.00360 |
|    | 50.00000 | 50.00000 | 50,00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50,00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| f  | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|    | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|    | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|    | 50.00000 | 49.99952 | 50,00000 | 49.99952 |
|    |          |          |          |          |



|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|--------------|----------|----------|----------|----------|
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.0000  | 50.00000 | 50,00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50,00000 | 49.99952 | 50.00000 | 49.99953 |
| <del></del>  | 50.00000 | 50.00000 | 50.00000 | 50,00006 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99955 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
| <del></del>  | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del> </del> | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|              | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>     | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <b>!</b>     | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del>  | 50.00000 | 50,00000 | 50.00000 | 50.00000 |
|              | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| } —          | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del>  | 50,00000 | 50.00000 |          | 50.00000 |
| h            | 50.00000 | 50.00000 |          | 50.00000 |



|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|---------------|----------|----------|----------|----------|
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 49.99990 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del>   | 50.64080 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50,00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del> " | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| ****          | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del>   | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del>   | 50.00000 | 49.00000 | 50.00000 | 50.00000 |
| <del> </del>  | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|               | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del>   | 50.00000 | 50.00000 | 50.00000 | 50.00000 |



|             | 50.00000 | 50.00000 | 50.00000 | 50,00000 |
|-------------|----------|----------|----------|----------|
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.35020 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50,00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del> | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             |          |          |          |          |



| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|----------|----------|----------|----------|
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50,00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| 50,00000 | 50.00000 | 50.00000 | 50,00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50,00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50,00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 50.00000 | 50.00000 | 50,00000 | 50.00000 |
| 50.00000 | 50.00000 | 50,00000 | 50.00000 |
| 49.99896 | 49.99865 | 50.00060 | 50.00152 |
| 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|          |          |          |          |

| a. 4 | A.co |
|------|------|
| SV   | RNER |

|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|-------|----------|----------|----------|----------|
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 49,99952 | 50.00000 | 50,00000 | 49.99952 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50,00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50,00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| 3 A 3 | 49.99952 | 50.00000 | 50.00000 | 49.99952 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 49.99952 | 50.00000 | 49.99952 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 49.99952 | 50,00000 | 49.99952 |
|       | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|       | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|       | 50.00000 | 49.99952 | 50.00000 | 49.99952 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|       |          |          |          |          |

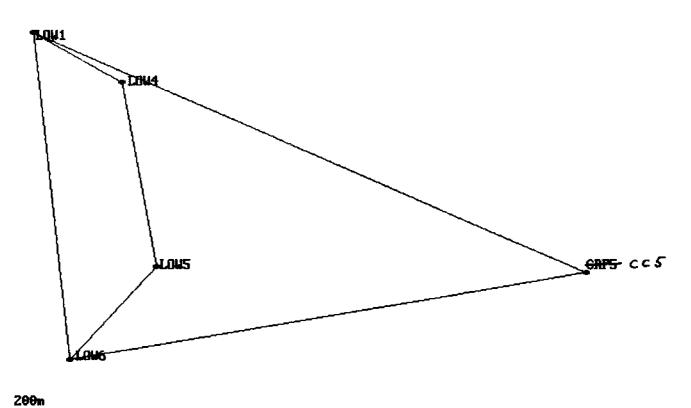


|             | 50.00000 | 50.0000  | 50,00000 | 50.00000 |
|-------------|----------|----------|----------|----------|
|             | 50.00000 | 50,00000 | 50.00000 | 50.00000 |
| <del></del> | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del> | 50.00000 | 50,00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
|             | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <del></del> | 50.00000 | 49,99952 | 50.00000 | 49.99952 |
| <b></b>     | 50.00000 | 49.99952 | 50.00000 | 49,99952 |
| <u> </u>    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| L+          | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>    | 50,00000 | 50,00000 | 50,00000 | 50.00000 |
| <u> </u>    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>    | 50.00000 | 50,00000 | 50.00000 | 50.00000 |
| <del></del> | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <b></b>     | 50.00000 | 50.00000 | 50.00000 | 50,00000 |
| <b></b>     | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <b></b>     | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <b> </b>    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| <u> </u>    | 50.00000 | 50.00000 | 50.00000 | 50.00000 |
| L           | 50,00000 | 30.00000 |          |          |

## FIELD GPS CONTROL DATA AND FIELD SURVEY NOTES

Original Coords. on NAD 83 Geographic Coordinates Translated Coords. on NAD 83 State Plane - SC 3900, U.S. FT INPUT OUTPUT NAME 34 53 10.63712 N 1111699.45021 N CC5 081 46 30.25733 W 1767538.13167 E -00 25 46.91685 Convergence 1.000019254 Scale Factor 1113376.91004 N 1763715.26597 E 34 53 26.94200 N LOWERY 1 081 47 16.29600 W -00 26 12.44066 Convergence 1,000020940 Scale Factor 1113030.13483 N 34 53 23.55892 N LOWERY 4 081 47 08.82530 W 1764335.00769 E -00 26 08.29891 Convergence Scale Factor 1.000020590 34 53 10.76261 N LOWERY 5 1111734.55098 N 081 47 05.90198 W 1764568.70920 E -00 26 06.67822 Convergence Scale Factor 1.000019267 1111079.95887 N 34 53 04.24258 N LOWERY 6 081 47 13.15630 W 1763959.34009 E -00 26 10.70001 Convergence Scale Factor 1.000018594

U.S. Army Topo. Engineering Center, CORPSCON V4.11, Page 1 of 1



Property of MXE MATERIA CONTROLLIC

COMP CROET

Address 210411 Living to Oil

214 August 1 and JA 2010 Controllic

Controllic to August 1 and Augus

Telephone \_\_\_\_\_\_

This Book is manufactured of a High Grade 50% Rag Paper having a Water Resisting Surface, and is sewed with Nylon Waterproof Thread.

## INDEX

| Pocet           | POSICINCE  | _โทเรา                |
|-----------------|--|-----------------------|
| <u>/- 1</u>     | GRID STAKE - 21,23,24,46.42  | 12-11-36              |
| 5-7             | n n 4万島(753-8)<br>CP TAUTE 1613<br>n 7577 かりかり   | 12 11 75              |
| <u>2-10</u>     | h 1637/3/3/1909, 32-36   | 57 N. 36              |
| 13-11           | the state of the s | 12 1 1                |
| 14 -            | " 57-60, 29-30, 33-36  | C 1897                |
| 17-30           | " " 41-44, CA72.   | 12-19-96              |
| 21-22           | 11 /25-/8 = 9/ 85 5 143  |                       |
| <u> 23 - 25</u> | n 181-84, 85, 81, 88   | 1-6-97                |
| 26-29           | GRID STAKE 149-152   | /-7-97                |
| <u>30-32</u>    | 11 H 177-180, 125, 126, 137-<br>140 173-176, 121-124, 153-55   | 1-8-97                |
| <u> 33 –34</u>  | LOCATED GRID CORNERS   | 1-10-97               |
| <u>tr</u>       | 1255W, 1265W, 137NW, 1385W, 1405E  | 1/                    |
| 11              | 153 Sw-155 Sw, 1215w-1245w 173-1765w   | и                     |
| H               | 127 NW - 129 NW 141 NW \$ 133 NW   | 17                    |
| 35              | GRID STAKED 127-129, 133, 141, 160, 169,   | 1-10-97               |
| 36-39           | GRID STAKED 170, 171, 172, 165,166,1667, GRID STAKED 198, 199, 200, 193, 194, 195, 196   | <u> 1-13-97</u>       |
| 40-43           |  | / <del>-/</del> 4-97_ |
| 44-46           | " 201-208, 183   | 1-15-97               |
| 47-50           |  | 1-16-97               |
| 51-54           | 4 4 22, 142, 134-136, 130-132<br>285, 286, 274   | 1-17-97               |
|                 |  | <del></del>           |
|                 |  |                       |

| 1  |   | of promoting   |   |  |
|--|---|--|---|--|
| STA GILID 21 NU 21 11E 21 SE 23 SW 23 NE 23 SE | 2021 4002<br>3021 4003<br>23 4004   | GRIDS BS CONERY 4 3307 N 1113050, 1348 E 1764335, 0677 710, 16 (R) 710, 22 (F) | 12-14-96(349) $SW = 1-300$ $NE = 1200/-1300$ $SE = 300/-1300$ | C. STEDDARD CDX  MARK HOULET Q  TOPCON ZOI HHOZIG  PRISING POLE FTRI-DANCH  CHENR, CALM, 500 |
| F STA<br>CP"TED"                               | PT# * 121GHT 4007 2351-06-14171-06-14 0-00-00/80-00-07 0351-06-14171-06-1 1, 351-06-12.5  REC# ASDLT# 24 4008 |  | A ///33/3,9104 E /763865,2789                                 |  |

| 4       | 1             | •          | :                         | 1                       | preprintation        | Catherine   14. |                                    |
|---------|---------------|------------|---------------------------|-------------------------|----------------------|-----------------|------------------------------------|
| 1       | ₹             |            |                           |                         |                      |                 | 1-3                                |
| F       | 1             | CAMP       | CROFT                     | STAKE                   | CAIDS                |                 | 12-14-96 SAME CONDITIONS           |
|         | •             | ne G       | 160                       | 7007                    | KY YOU               | 4 3301          |                                    |
|         |               | N ///3:    | 5,13,9104                 | ĺ                       | N 11130              | 30,1348         |                                    |
|         |               | E 1763     | 285. 2789                 | 9                       | E 1764               | 335,007         |                                    |
|         |               | BS AZ      | 122-1                     | 5-06                    | E 21 70 2            | ran             |                                    |
|         |               | 38 ¥       | 0-00                      | -00                     | 531.78 (<br>531.83 ( | F)              |                                    |
|         |               |            |                           |                         |                      |                 |                                    |
|         | GRID          | REC        | ASCIT                     | CRID                    | Ric                  | ASBLT           |                                    |
|         | 24NE          | 2024       | 4010                      | 115W                    | 326                  | 4026            |                                    |
|         | 24 SE         | 3024       | 4011                      | #- <del>NW-</del>       | 327                  | 402.7           |                                    |
|         | 4654          | 46         | 4012                      |                         |                      |                 |                                    |
|         | 7046 NW       |            | 4013                      | STA                     | PT #                 | <i>4</i>        | , RIGHT HD DESC                    |
|         | 46NE          |            | 1 1                       | CP " BAD"               | 329                  | ا2 - اه- ع82    |                                    |
|         |               | 3046       | 4015                      |                         |                      |                 | 180-00-07                          |
| A       | 45SW          | 45         | 4016                      |                         | Ī                    |                 |                                    |
|         | 45NW          | 1045       |                           | ļ                       | 1                    | 286-            |                                    |
|         | 45 NE         | •          |                           | •                       |                      |                 | 30-15 SS4.20 SET HT E 1764 3019855 |
|         | 4SSE          | 3045       |                           | i<br>İ                  | İ                    |                 |                                    |
|         | 48 NW         | 1048       | 4020                      | i<br>!                  |                      |                 |                                    |
|         | 48 NE         | 2048       | 4021                      | İ                       | 1                    |                 |                                    |
|         |               | 3048       | 4022                      | į                       |                      |                 |                                    |
|         | 48 SW         | 48         | 4023                      | !                       | İ                    |                 |                                    |
|         | CP 47 NW      |            | 4024                      | <b>!</b>                |                      |                 |                                    |
|         | STA           |            | 4 RIG                     |                         | HT                   | None.           |                                    |
|         | OP IISE       | ואס        | 207 mily                  | 97 W = 17               | 2741.59              | Desc            |                                    |
| $  \  $ | 9 11-1-       | 7065 (37e) | 10-00-00.                 | 100-11                  | 317.27               |                 |                                    |
| 1       | ;<br><b>,</b> | 1          | ) 0-00-00.<br>> 267-06-24 | /80-00-62;<br>267-66-15 | ļ                    |                 | A) #126 vs 1242                    |
| *       | /             |            | 267-0                     |                         | 374.29               | SET HT          | N 113640, 1347<br>E 1764068, 7749  |
| •       |               | ····       | · (_U / - (               | حب، ا ا = φ=<br>        | _,                   |                 | = 1.0 1008. 1741                   |

| A |              | 0 - 0       |                              |      |                       |                     |     |                                       |      |      |                                       |         | -4   |
|---|--------------|-------------|------------------------------|------|-----------------------|---------------------|-----|---------------------------------------|------|------|---------------------------------------|---------|------|
|   |              | TO 23       | eorr S<br>sw #               | 4004 | US Lowe               | 4 1 #3301           | /2- | 14-96                                 |      | Same | e Cont                                | 7 POP 5 | <br> |
|   |              | E 1763      | 95.016<br>(-78.99)<br>//6-31 | 0    | E 1763                | 76,9100<br>715.2660 |     |                                       |      |      |                                       |         |      |
|   |              |             | 0-00-                        |      | 40.54                 | (e)<br>F)           |     |                                       |      |      |                                       |         |      |
| ; | 6RID<br>23NW | PEC<br>1023 | ASOLT<br>4027                |      |                       |                     |     |                                       |      |      |                                       |         |      |
|   | 215W         | 21          | 4028                         |      |                       |                     |     | · · · · · · · · · · · · · · · · · · · |      |      |                                       |         |      |
|   |              |             |                              |      |                       |                     |     |                                       |      | :    | · · · · · · · · · · · · · · · · · · · |         |      |
| , |              |             |                              |      |                       |                     |     |                                       |      |      |                                       |         |      |
|   |              | ļ           |                              |      | <br> <br>             |                     |     |                                       | . :  |      |                                       |         |      |
|   |              |             | :                            |      | ;<br>;<br>!           |                     |     | : . !                                 |      | i .  |                                       |         |      |
|   |              |             |                              |      |                       |                     |     |                                       |      |      |                                       |         |      |
|   |              |             |                              |      | <u>}</u>              |                     |     |                                       |      |      | i i                                   |         |      |
|   |              |             |                              |      | †<br>:<br>:<br>:<br>: |                     | :   | , , ,                                 | 1, ' | •    |                                       | . , ' i |      |

Yes Sales

305 Jr J

| GRID 17.5  | RS AZ<br>RS AZ<br>RS AZ               | 99.983<br>950.103<br>343-<br>0-00 | 0<br>08-32<br>0-00 | BS CP"      | 760" # 307<br>513.9104<br>8857, 2789    |                        | /2-15-9 |        | MARK<br>HILL JA<br>TOPCON<br>PRISIL | HOLLEY R<br>KUBOWSA<br>ZOJ HA<br>POLE | COD<br>CIC<br>TRI- SANCUL |
|------------|---------------------------------------|-----------------------------------|--------------------|-------------|---|------------------------|---------|--------|-------------------------------------|---------------------------------------|---------------------------|
| 47SV       | į -                                   |                                   | ļ                  | İ           |   |                        |         |        |                                     |                                       |                           |
| 47 NO      |                                       | 4030                              | 1                  |             |   |                        |         |        |                                     |                                       |                           |
|            | X@ CP<br>N 111367<br>E 17643<br>BS AZ | BAO # :                           | <br> <br> 45-21    | N 11133     | TED" #307<br>13.9/04<br>885.2789<br>(2) |                        |         |        |                                     |                                       |                           |
| GRID       | REC                                   | ASBET                             | STA                | PT-#        | ¥                                       | RIGHT                  | HID     | DESC   |                                     |                                       |                           |
| 12 SW      | - !                                   |                                   | CP"TEE"            | 312         | 2 155-18-35                             | 335-18-4               | I i i   | 1 :    |                                     |                                       |                           |
| 12 Nh      | į į                                   | 4633                              |                    |             | 0-00-00                                 | 180-00-03              |         |        |                                     |                                       |                           |
| IZNE       | ·                                     | 4034                              | :<br>!             |             | 155-18-35                               |                        |         |        |                                     | لهذاء اكأن                            |                           |
| 12 SE      |                                       | 4035                              | ·<br>•             | <b>P</b> ** | 155-18                                  | - 36.5                 | 202.44  | SET HT | E 1764                              | 384,5380                              |                           |
| 75W        | 1                                     | 4036                              | (G) "              |             |   | i                      |         |        |                                     | 1                                     |                           |
| 7SE<br>GNW | 1 1                                   | 4037                              | CP OFF"            | 313         | ጀ 126- 3√1-45<br> <br>                  | 300-34-46              | 360.50  |        |                                     | :   ;                                 |                           |
| 17 614     | 1000                                  | 4038                              |                    |             | 0-00-00<br>P 120-34-45                  | 180-00-10<br>120-34-36 |         |        | A. 111.6-                           | 71 Care                               | 11111                     |
| , /        |                                       |                                   |                    |             | m 120-34                                | - 46.5                 | 360,00  | l      | E 1764                              | 33, <i>5</i> 4 <b>89</b>              |                           |

Time and the same

, i.

| 4  | A .  |                          |   |                          | restriction of the state of the | <del></del>              | ( =        |  |  |   | <br> | щ, | L., |
|--|--|--------------------------|---|--------------------------|--|--------------------------|------------|--|--|---|------|----|-----|
|  |  | N 1113<br>E 176<br>BS AZ | CROFT<br>P" TEE"<br>18,64.121<br>14384.53<br>204-                         | #312<br>0<br>80<br>03-57 | GRIDS<br>BS CP"<br>N 11136<br>E 1764:<br>Zoz.44(R<br>Zoz.42(F  | BAD"<br>19.27<br>301, 98 | 77         |  |  | : | 1    |    | 5   |
|  | GRIO<br>7NE<br>6 SWW SWW E<br>5 SWN E<br>5 SWN E<br>8 NE<br>8 NE | 322<br>- <del>32</del> 3 | 4041<br>4642<br>4643<br>314<br>318<br>4044<br>4045<br>4046<br>322<br>4047 |                          |  |                          |            |  |  |   |      |    |     |
| No. of the control of | SSM<br>SNE<br>SNE<br>Crid  | BS CP"                   | W # 322<br>1889-00-50<br>ASBOT<br>4047<br>4048<br>4049                    | · ;                      | o-∞01D   | 140,35<br>140,37         | (R)<br>(F) |  |  | • |      | :  |     |

1-6

SAME CONDITIONS

| <br> -<br> -<br> -<br> -      | CAMP CROFT S<br>X@ CP" OFF " # 31<br>N 1114033, 5489<br>E 1764235, 2611<br>DS AZ 169-26-18<br>BS X 0-00-00 | 3 BS CP"B,<br>W 11/367<br>E 17643 | 01.9855                  | 12-15-90 | SAME | Carditio | 1-7 |
|-------------------------------|--|-----------------------------------|--------------------------|----------|------|----------|-----|
| 3SW<br>3NW<br>STA<br>CP" ree" |  | 3   225. 81                       |                          |          |      |          |     |
| 4sw                           | PEC ASBIT 4 4053  TO 45W # 4053 BS CP OFF # 313 BS AZ Z55-13-58  | BS × 0-00-20                      | 194.19 (R)<br>194.20 (F) |          |      |          |     |
| GRID<br>4NW<br>4NE            | PEC ! ASOLT!   | :                                 | ·rraverj                 |          |      |          |     |

\*\*\*

| Ca          | mp Opo       | <br> ET 720 | SE-                                   |                                       |             |   | _  |      |                    |                     |                           |          |                 |  |              |                  |      |                               |              | 1-            |
|-------------|--------------|-------------|---------------------------------------|---------------------------------------|-------------|---|--|------|--------------------|---------------------|---------------------------|----------|-----------------|--|--------------|------------------|------|-------------------------------|--------------|---------------|
|             | <b>*</b> 0 C | L "112€ "   | # ? >~                                | RS 20° TO                             | * #         | -  [-   |  | 71   | <del>/2-/</del>    | <i>نو- و</i><br>۱ T | 19 T                      | ŢŢ       | -               | 1 1  | 1 1          |                  | XIR  | 1 1                           | r i          | 夲             |
| <del></del> |              | 36.40.134   | •                                     |                                       | l .         |   | <del>                                     </del> | -}-+ | +                  | ++-                 | $\left\{ \cdot \right\} $ |          |                 |  |              |                  |      |                               |              | <b>,</b>      |
|             | !            | ı           |                                       |                                       | 3. 91011    |   |  |      | ┪-┼                | <del> </del> - -    |                           | -{-}     | +               | 1761   | r da         | ) <del>2</del> d | 21 7 | 44                            | 44           | 4             |
|             |              | 209-2       |                                       | <u>E 1763</u>                         | \$87.578    |   |  | +    |                    |                     |                           | +        | +               |  |              |                  | 24 6 |                               |              |               |
| ·           |              | 0-00        |                                       | 379.29                                | (R)         | -   | -  -  -  | ++   | +                  |                     | ┝┼┼                       |          | +               | 191  | ΕAΓ          | F-19             | 4    | 1                             | 抻            | <u>.</u><br>F |
| *           | <del></del>  | 0.7.00      | -60_                                  | 374.30(                               | E)          | -   -   |  |      |                    | ┝┟┤                 |                           |          |                 | +-   | ╂╌┠╌         | <del>├</del>     | ++   | -   -                         | <del> </del> | -}            |
| GRID        | Pec          | Asset       |                                       |                                       | <del></del> | -   -   |  | ++   | +                  |                     |                           |          | ╁┟              | +  | <del>-</del> | ┟─├─╁            | -++  | +-}                           |              | _             |
| MM          |              | 4o≤7        |                                       | <del></del> -                         | <del></del> | -    -  | ++   | ++   | <del>    -</del>   | ╁╁┪                 | +                         | +-       | +               | +  | ┞╌┞╌         | ┝┼╅              | +    | +                             | +            | ╀             |
| JINE        | I            | 4058        |                                       | <u> </u>                              |             | -     -   | -+-  | ++   | $\dagger \dagger$  | [-]                 | $\dagger \dagger$         | ╂╌╂╴     | ++              |  |              |                  | -+-  | +                             | ┼┼           | +             |
| IOSE        | 1            | 335         |                                       | ·                                     | <del></del> | ═╵╎═╂<br>╏╏   |  | ++.  | 忕                  | 111                 |                           | +        | †+              | <del> - -</del>                                  | ++           | ╌╂╼╂             | +    | ++-                           | $\vdash$     | +             |
| 10 SW       |              | 4059        | - · · · · · · · · ·                   | <del></del>                           |             | -    -  | 7-1-   | † †  | + +-               |                     | ++                        |          | -               |  | -            | -++              | ++   | <del> -</del>                 | +-           | ╁             |
| IONW        | .            | 4060        |                                       | · · · · · · · · · · · · · · · · · · · |             | -   | 11   |      | <del>      -</del> |                     | ††                        | <u> </u> | - -             | <del>     </del>                                 | -            |                  | ++   | <del>       </del>            | -            | -             |
| JONE        | 338          | 4061        |                                       |                                       |             | -  -  | -  -   |      |                    |                     | +                         |          | † †             | ++   |              | -+-              | +++  |                               | ┟╼╁┈         | -             |
| _9SE.       | 339          | 337         |                                       |                                       |             |   |  |      |                    |                     |                           |          | <del>  </del>   | <del>                                     </del> | +            | 1-1-             | ++   |                               |              | H             |
| 95W         | 3:10         | 4062        |                                       |                                       |             |   |  |      |                    |                     |                           | - -      | - <del> -</del> |  |              |                  | ++-  | <del>├</del> ─ <del>├</del> ─ | -            | -             |
| JNW         | 341          | 4063        |                                       |                                       |             |   |  |      |                    |                     |                           | † † †    |                 |  | ††           |                  | +    | - -                           |              | -             |
| PNE         | 342          | 4061        | · · · · · · · · · · · · · · · · · · · |                                       |             | .   |  |      |                    |                     |                           |          |                 |  | 11           |                  |      | <u>-</u>                      | +            | - 1           |
|             |              |             |                                       | -a                                    | <u> </u>    |   | $\prod$  |      |                    |                     |                           | 7-1      |                 |  | 11           | <del></del>      |      | -                             |              | -             |
|             |              |             |                                       |                                       | ·           |   |  |      |                    |                     |                           |          |                 |  |              |                  | ++-  |                               |              |               |
|             |              |             |                                       |                                       |             | . <mark>                                    </mark> |  |      |                    |                     |                           |          |                 |  |              |                  |      |                               | 1-1          |               |
|             | ļ.,ļ         |             |                                       | <del>-</del>                          |             |   |  |      |                    |                     |                           |          |                 |  | 7-1-         |                  |      |                               |              | 1             |
|             |              |             | · · · · · · · · · · · · · · · · · · · | <i></i>                               |             |   |  |      |                    |                     |                           |          |                 |  |              |                  |      |                               |              | -             |
|             | ļ            | <del></del> |                                       |                                       |             |   |  |      | _   _              | _   _               |                           |          |                 |  |              |                  |      |                               |              | -             |
|             |              |             |                                       |                                       | _           | 111   |  |      |                    |                     |                           |          |                 |  |              |                  | 1 1  | <u> </u>                      | -   -        | - 1           |

. i,

1

:

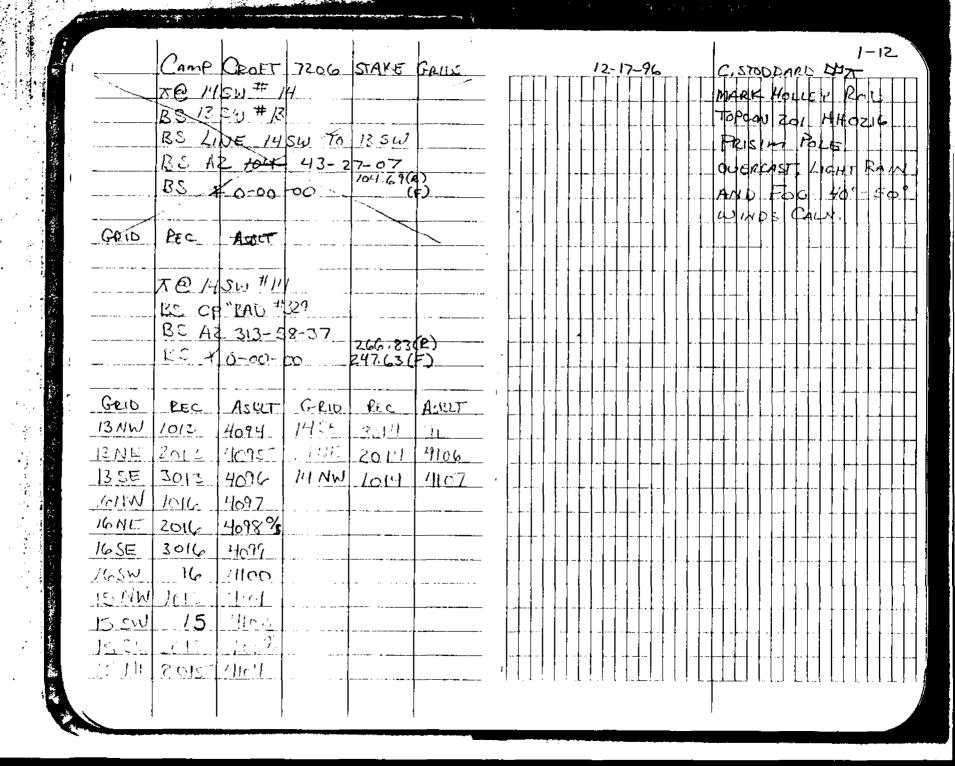
|   |         |          |              | 7206          | GT GR               | IPS .                                 | · · ·    | , /2 | 2-/ <u>6 - 9</u> ( | P | Same | CONDIT | 1-9   |   |
|---|---------|----------|--------------|---------------|---------------------|---------------------------------------|----------|------|--------------------|---|------|--------|---|---|
|   |         | <u> </u> | <u>s</u> ա   |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   |         |          | <i>ي</i> د ي |               |                     | :                                     |          |      |                    |   |      |        |   | I |
|   |         | I        | 279-5        | 7- <b>5</b> 0 |                     | . •                                   |          |      |                    |   |      |        |   | Ī |
| : |         |          | 2-00-        |               | /50,277<br>/67,43.0 |                                       |          |      |                    |   |      |        |   |   |
|   |         |          |              |               | ,,,                 | -                                     |          |      |                    |   |      |        |   | i |
|   | GRIDS   | REC      | ASBLT        |               | -                   |                                       |          |      |                    |   |      |        |   |   |
|   | .185WL  | . 18     | 4065         |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   | 18WW    | 1018     | 4066         |               |                     | <u></u>                               |          |      |                    |   |      |        |   |   |
|   | 18 NE   | 2018     | 4067         |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   | 18SE    | 2018     | 4068         |               |                     |                                       | $\cdot$  |      |                    |   |      |        |   |   |
| _ | 17.5W   | 17       | 4069         |               |                     | · ——————                              |          |      |                    |   |      |        |   |   |
| _ | 17 NW   | 1017     | 4070         |               |                     |                                       | $\cdot $ |      |                    |   |      |        |   |   |
|   | INE     | 2017     | नुगा         |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   | 17SE.   | 3017     | 407Z         | . [           | , , , <sub></sub>   |                                       |          |      |                    |   |      |        |   |   |
|   | W291    | . 19     | 4073         |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   | 1911/11 | 1019     | .467.1       |               |                     |                                       |          |      |                    |   |      |        |   |   |
| - | 19 NE   | 2017     | 1671         |               |                     |                                       |          |      |                    |   |      |        |   |   |
| _ | 175L    | 3011.    | Him          |               |                     |                                       |          |      |                    |   |      |        |   |   |
| _ | 2010    | 1020     | 407.7        |               |                     |                                       |          |      |                    |   |      |        |   |   |
| - | 1 DMG3  | 2020     | 4678         | _             |                     |                                       |          |      |                    |   |      |        |   |   |
| _ | ZOSE    | 3020.    | 4079         |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   |         |          |              |               |                     |                                       |          |      |                    |   |      |        | $\left[ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |   |
| _ |         |          |              |               | <u>,-</u>   .       |                                       |          |      |                    |   |      |        |   |   |
|   |         |          |              |               |                     |                                       |          |      |                    |   |      |        |   |   |
|   |         |          |              |               |                     | · · · · · · · · · · · · · · · · · · · |          |      |                    |   |      |        |   |   |
| L |         | ſ        |              |               |                     |                                       | '        | •    |                    |   |      |        |   | • |
|   |         |          |              |               |                     | •                                     | ė.       |      |                    |   |      |        |   |   |

|                       | CAMP CLIT 7206 SET GRIDS                               | 12-16-96                                  | SAME CONDIT       | 1-10 |
|-----------------------|--|---|-------------------|------|
|                       | 85 LINE 34 SW # 34 TO 33 SW #32 BS AZ 37-20-22 122.000 | 70 13 5 M # 33<br>ES 4 M & 335 W #        | TO \$4\$W#31      |      |
| GRID                  | BS \ 0-00 -00   119.58 (F)                             | BS AZ 217-20<br>BS AZ 0-00-00             | 22 2200(2)        |      |
| 332W                  | 33 4080 2.432<br>1034 1081                             | GRID PEC ALBO                             | ] ] !   1 ]   ! ] |      |
| 34 NW<br>34NE<br>34SE | 2034 (108%)  | 36NE 346 1/099<br>36NW 345 1/091          |                   |      |
| 355W                  | 35 1081  | 33/16 <b>Z</b> 033 4092<br>33 SE 3033 409 | -44               |      |
| _ 1                   | 2035 4086  |   |                   |      |
| I                     | TO 355W # 10811 BS 34 5W # 34                          |   |                   |      |
|                       | ES AZ 308-07-18 BS \$0-00-00                           |   |                   |      |
| _                     | 25C ASOIT 3035 4087                                    |   |                   |      |
| 36.SH                 | 343 343  |   |                   |      |
| 36 NW                 | 345 4090-  |   |                   |      |
| 36 NE                 | 316 7089   |   |                   |      |
|                       | 1  |   |                   |      |

就 銀行 有钱的钱等一样,一次们会给一个人的脚子的人

|                          |                                       |                                       |   | 1-1       |
|--------------------------|---------------------------------------|---------------------------------------|---|-----------|
|                          |                                       |                                       |   |           |
|                          | -                                     | •   • •                               | ╽╶┈╶┈╎╀╀┞┇┨┞╏┨┞╏╏┼┇╿┞╬╢╀┵┦┦               |           |
|                          |                                       |                                       | <del> </del>                              |           |
|                          |                                       |                                       | LAMP CROTT TROCO                          |           |
|                          | <u> </u>                              |                                       | STAVE GRIDE                               |           |
|                          |                                       |                                       |   |           |
|                          |                                       | ]                                     |   | -  -      |
|                          |                                       |                                       |   |           |
|                          |                                       |                                       | ┟╌┈╼╼╼╸┈╶╵┞┋┞┞╏┠┞╁╏╏╄╁┧┧╟┧╢╟╂╟╣╏╬╎┧╏╂╏    |           |
|                          |                                       |                                       | ╵╌╌╌╴┄╴┆╎╎┞╀╁╏╂╫┼┼┼┞╏┞╏ <u>┪╏╏┧╏╏╏╏╏╏</u> |           |
|                          |                                       |                                       | <u> </u>                                  |           |
|                          |                                       | <u> </u>                              |   |           |
|                          |                                       |                                       |   |           |
|                          |                                       |                                       |   |           |
|                          |                                       |                                       |   |           |
| · <del>•</del> -· ······ | · · · · · · · · · · · · · · · · · · · |                                       |   | -         |
|                          | ·                                     |                                       | ··· · · · · · · · · · · · · · · · ·       | -         |
|                          |                                       |                                       |   |           |
| ļ                        |                                       | _                                     |   |           |
| -                        |                                       |                                       |   |           |
|                          |                                       |                                       |   |           |
|                          |                                       |                                       |   |           |
|                          |                                       |                                       | ╶┈╴╴╶╶┞┢╀┤┋╏┧╅┩┞┢╂┞┧┞┾╇╂┞╽╿╟╀╽╿╷          |           |
|                          |                                       |                                       | ┄╾╴┈╶╴╴╸╏╒┼╏┞╏╊╊╠╁╇╃┼┧╏╏╏╋╊┡╢╿╎┇╽╿╽╏      |           |
|                          |                                       | -                                     |   |           |
|                          |                                       |                                       |   |           |
|                          |                                       | · · · · · · · · · · · · · · · · · · · |   |           |
|                          |                                       |                                       |   | 7 1 1 1 1 |
| i                        |                                       |                                       | <del>╶</del>                              | +     +   |
|                          |                                       |                                       |   | 1111      |
|                          |                                       | İ                                     |   |           |

医乳腺性 医乳头皮皮 化乳 解音音解 经收入 医皮肤皮肤 医毒素



|       | _      | 0                | ļ           |  |                                       |      |        |  |                  |         |         |            |                 | · · · · · · | 1-           | 13  |           |
|-------|--------|------------------|-------------|--|---------------------------------------|------|--------|--|------------------|---------|---------|------------|-----------------|-------------|--------------|-----|-----------|
|       |        |                  | 1           | BTAKE                                  | GRIDS                                 |      | 1111   | , <u>,                                  </u> | 2-17-            | 96      | . 1 7   | SA         | mE.             | Con         | ەبتار        | γŅ  | <u>Ş.</u> |
|       | TQ 62  | SW #0            | <b>-</b> 2. |  |                                       |      |        |  |                  |         |         |            | $\ \cdot\ _{L}$ |             |              |     |           |
|       | BS 61  | SW #             | 12          |  |                                       | ;    | TO     |  | NW               | #       | 4117    |            |                 |             |              |     |           |
|       | BS ZIN | E 62.5           | 111 TO 6    | 15W                                    |                                       |      | 1,5\$  |  | \$4              | #       | 11/08   |            |                 |             |              |     |           |
|       | BS 12  | . <del>202</del> | 46-57       |  | <u> </u>                              | ŀ    | 13     | LW   |                  | HUW     | 170     | 4/5        | 4               |             |              |     |           |
|       | BS *   |                  |             | 108.46()                               |                                       |      | 12S    |  |                  | 40      |         | lli        |                 |             |              |     |           |
|       |        |                  |             |  |                                       |      | ES     |  | 0 - 00           | !       |         |            |                 |             |              |     |           |
| GRID  | REC    | Asgr             |             |  |                                       |      |        |  |                  |         |         |            |                 |             |              |     |           |
| GISW  |        | 4108             |             |  |                                       |      | Gen    | ,  | REC              | ام      | Br      |            |                 |             | 1-11         | -   | -         |
| GENN  | 1      | 4109             |             |  |                                       |      | 64 NE  |  | 1064             | 1 1 1   | 120     |            |                 |             |              | -   | -1        |
| 62NE  | ſ      | 4110             |             |  |                                       |      |        |  |                  |         |         |            |                 |             |              | '   |           |
| 62.SE | 3062   | 411              | ·           | · · · · ·                              |                                       |      | Ke 4   | 3 // (1                                      | , #              |         |         | 76         |                 | srJ         | 4113         |     | -         |
| 63/W  | · · ·  |                  |             | ········ – · – · – · · · · · · · · · · |                                       |      |        | 3\$4   |                  | 113     |         | 4 1        | 1 1 1           | 1 ! []      | AIR          | 1 1 |           |
| 63SW  |        |                  |             |  |                                       | İ    | IS 414 | 1 1 1  | 3/4              | 1 1 1 1 | 3       | 1 1        | 1 1 1           | 435,        | [ ] [        | 111 | ١,        |
|       | 70 61  |                  | 1108        |  |                                       | ,    | Ra M   | i  | ' [ ] ·          | i I .   |         |            |                 | 0-1         |              |     |           |
|       | ES 61  |                  | ]           | •                                      |                                       |      |        | ، احاما                                      | 0-0              | 50      | 23 (R)  | ı R        | S               | - 00-       | 20 5         | ÖZ  | X         |
|       |        |                  | 5 TO 6      | 2,510                                  | · · · · · · · · · · · · · · · · · · · | -    |        |  |                  |         |         |            |                 |             |              | 1 5 | ľ         |
|       | BS AT  | 202              | 46-50       |  |                                       | .    | G-21D  |  | 2 <b>E C</b>     | 724     |         |            | P D             | REC         | † <b>-  </b> | ٧٩٢ |           |
|       | DS XO  | -00-d            | 0           | 7687, 58(A<br>108, 46 (1               | <b>₹</b> )———                         | _    | CSNE   |  | 063              | H 2     | ; i l   | - 3<br>- 3 | !               | 300         |              | 77  |           |
|       |        |                  |             | ADOM ABILI                             | ·                                     |      |        |  |                  |         | - ¶ - ŀ |            |                 |             | 1 1          |     |           |
| GRID  | REC    | ASDLT            |             |  |                                       | ·· . |        | -  |                  |         | 1 -1 -  |            |                 |             | 111          | -   |           |
|       |        | माप              |             |  | <b></b>                               |      |        |  |                  |         |         |            |                 |             |              |     |           |
|       |        | 4115             |             |  | ···                                   |      |        |  | <del>     </del> |         |         | -  -       |                 |             |              |     |           |
|       | 3061   | ر الان<br>ام)اال |             |  |                                       |      |        |  |                  |         |         |            |                 |             |              |     |           |
|       | I .    | 4117             |             |  |                                       | •    |        |  |                  |         |         |            |                 |             | 1   1        |     |           |
| GISW  |        |                  |             |  |                                       |      | -[     |  |                  |         |         |            |                 |             |              | .   |           |
|       |        | 4月8<br>月119      |             |  |                                       | 1 ]  | 1, ; ; | ! 1.   | 1111             | . ! ! ! |         |            | : ! !           | '     !     | 1   1        | 1   | l         |
| ar, i | * 19   | 11111            |             |  |                                       |      |        |  |                  |         |         |            |                 |             |              |     |           |

4

化化學學 海豚 经产品的 海外海豚 不管 医皮肤 医腹腔 化二烷二烷

|         | ·<br> | I                 | t             |              | <br>                    |                          |                      | <u>-</u> |                      | 1          | 1-15        |
|---------|-------|-------------------|---------------|--------------|-------------------------|--------------------------|----------------------|----------|----------------------|------------|-------------|
|         | Camil | CROFT             | 7206          | XZ SE        | GRID                    | S                        | 7: 10: 1 - 1 : 2::2  | 12-18-9  | ر ا                  | C. STODDA  |             |
|         |       |                   | W #58         | 1            |                         |                          |                      |          |                      | MARK HOW   |             |
|         |       |                   | 5W #6d        |              | <u> </u>                |                          |                      |          |                      | Cliniting  | REIS COTTEN |
|         |       |                   | 3 58 <b>6</b> |              | 12c                     |                          |                      |          |                      | 1          | 201 440214  |
|         | 1     |                   | 84-37         | -01-         |                         |                          |                      |          |                      | Parson A   |             |
|         |       | BS X              | 3-00-06       | )            | 138.61(R)<br>134.53 (F) |                          |                      |          |                      | CUMA CIL   | m, 350-     |
|         |       | '                 |               |              |                         |                          |                      |          |                      | Printy Con | uk)         |
| (       | GRID  | REC               | ASOLT         |              |                         | ı                        |                      |          |                      |            |             |
| 1       | W203  | 60                | 4123          |              |                         |                          |                      |          |                      |            |             |
| -       | 595W  | .59<br>           | 4124          |              |                         |                          |                      |          |                      |            |             |
| 1       | 59NW  | 1059              | 4125          |              | -                       |                          |                      |          |                      |            |             |
|         | 28/AM |                   | 4126          |              |                         |                          |                      |          |                      |            |             |
| 1       |       | cos               | 4127          |              | . <u>-</u> .            |                          |                      |          |                      |            |             |
|         | 58 SE | 3028              | 4128          | ٠            |                         | i                        |                      |          |                      |            |             |
|         |       |                   | 4             |              |                         |                          |                      |          |                      |            |             |
|         |       |                   | SW #4         |              |                         |                          |                      |          |                      |            |             |
|         |       |                   | SW #S         |              |                         |                          |                      |          |                      |            |             |
|         |       |                   | <u>.</u> 6050 |              | 2.219                   | +                        |                      |          |                      |            |             |
| }       |       | ſ                 | 264-3         | /-00e 4      | 138.51(e)<br>— (F)      | <b>,</b>                 |                      |          |                      |            |             |
|         |       | BS XX             | 5-00-c        | 00           | — (F)                   |                          |                      |          |                      |            |             |
| 1       | Gr.10 | 0=-               | , , , , , , l | C n . =      | ٧                       | 0.222                    |                      |          |                      |            |             |
|         |       | REC 1             |               | GRID<br>59ME |                         | ASPLT                    | GRID                 | REC      | ASBUT                |            |             |
| 1       | 57NW  | • •               | 4129          | 5) SC        |                         | - 4133 - 1<br>  7020 - 1 | CONF                 | 4 [4 ]   | 4135                 |            |             |
|         | 1     | <b>2</b> 057   57 | 4130          | -)   DE      | 3037                    | 4134                     | 60 35                | 3040     | 4136<br>71137        |            |             |
|         | 575W  | 3057              | 4132          | 1            |                         |                          |                      | TYT      |                      |            |             |
| ن<br>۱۱ | FISE  | J(1) /            | 1120          |              |                         | <u>.</u>                 | , , , , , , <b>,</b> | ! ! !    | <b>P</b> 1 · · · · 1 |            |             |
|         |       |                   | 1             |              |                         |                          | ·                    |          |                      |            | ند          |

1000年

- marr 4-p 1755

| CREET (CANY) 7206 STAKE G-RIDS                                    | 12-18-96 | Spane Coulditions |
|---|----------|-------------------|
| TO 31 SW# 31<br>BS 30 SW #30                                      |          |                   |
| BS LINE 315W 10305W  PS AZ 345-51-02 122.72(P)                    |          |                   |
| BS x 0-60-00 /22.03(F)  GRID PEC ASOUT                            |          |                   |
| 31NG 2031 4138 28.535 Passible RESHOOT                            |          |                   |
| 3120 3034 4140  |          |                   |
| 76 30 SW #30 CO 31 SW #31   |          |                   |
| BS X 0-00-00 127.72(R)  |          |                   |
| GRID REC ASOIT GRID REC. ASOLT 32 4141 295W 29 4147               |          |                   |
| 3211W 1032 11412 275E 3039 4148                                   |          |                   |
| 32NE 1032 4143 9 29NE 2029 4149<br>22NE 2032 4144? 29NW 1029 4150 |          |                   |
| 30SE 3030 4146 30NW 1030 4151                                     |          |                   |
| MAGTE: 32 SE COOLD, LOST  |          |                   |
|   |          |                   |

The state of the s

· 一种 医神经神经 (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 ) (100 )

|            | ĺ            | 1     |        |       |                       |   |         |   | ·    |      |       |           |     |           |     |       | ,   | '- <i>j</i> | 7    |     |
|------------|--------------|-------|--------|-------|-----------------------|---|---------|---|------|------|-------|-----------|-----|-----------|-----|-------|-----|-------------|------|-----|
|            | Camp         | CEOFT | 7206_  | STAKE | GRIDS                 |   |         |   | 12-1 | 8-96 | r 1 T |           | San | 1Ę.       | Cor | דן קי | 194 | انام        | r -+ |     |
|            |              |       | SW #   |       |                       |   | .     [ |   |      |      |       | .   .   _ |     |           |     |       |     |             |      |     |
|            |              | DS 3  | 7.Sw # | 7     |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      | _ . |
|            |              |       |        | 1037  | w l                   |   |         |   |      | 1    |       |           |     |           |     |       |     |             |      |     |
|            |              |       | 315-4  | 19-49 | _                     |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| j          |              |       | 0-00-  |       | 97.59(E)<br>77.41 (F) | • |         |   |      |      |       |           |     |           |     |       |     |             |      | ľ   |
|            |              | •     |        |       | 13: 11 (4)            |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
|            | GeiD         | REC   | ASBLT  |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
|            | 37 SW        | 37    | 4152   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| H          | MM           | 1037  | 4153   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
|            | ı            | 2037  | 4154   | ]     |                       |   |         |   |      | -    |       |           |     |           |     |       |     |             |      |     |
| 1          |              | 3037  | 41155  | İ     |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| H          |              | 1040  | 4156   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| 11         |              | 2040  | 4157   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| M.         |              | 3040  | 4158   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
|            | 39 <u>NE</u> | 2037  | 4159   |       | Ì                     |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| <b>  }</b> | 1            | 3039  | 4160   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             | Ш    |     |
|            | w2.6E        | 30    | 4161%  |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
|            | 3°1NW        | 1039  | 4162   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             | ¦    |     |
| 1          | 282M         | .347. | 397    | [     |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| 11         | 38.S.€       | 350   | 4163   | [     |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| !!         | SINE         | 3119  | 4164   |       | []                    |   |         |   |      |      |       |           |     | $ \  \  $ |     |       |     |             |      |     |
| r          | 38 NM        | 348   | 4165   |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| i          |              |       |        |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |
| : "-       |              |       |        |       | _[                    |   |         |   |      |      |       |           |     | !   [     |     |       |     |             |      |     |
| ,\<br> \   |              | . [   | •      |       | ·                     |   |         |   |      |      |       |           |     |           |     |       | 1   |             |      |     |
| ( )        |              |       |        |       |                       |   |         | • |      |      |       |           | 1   |           |     |       |     |             |      |     |
|            |              |       |        |       |                       |   |         |   |      |      |       |           |     |           |     |       |     |             |      |     |

からのできる。

44

The state of the s

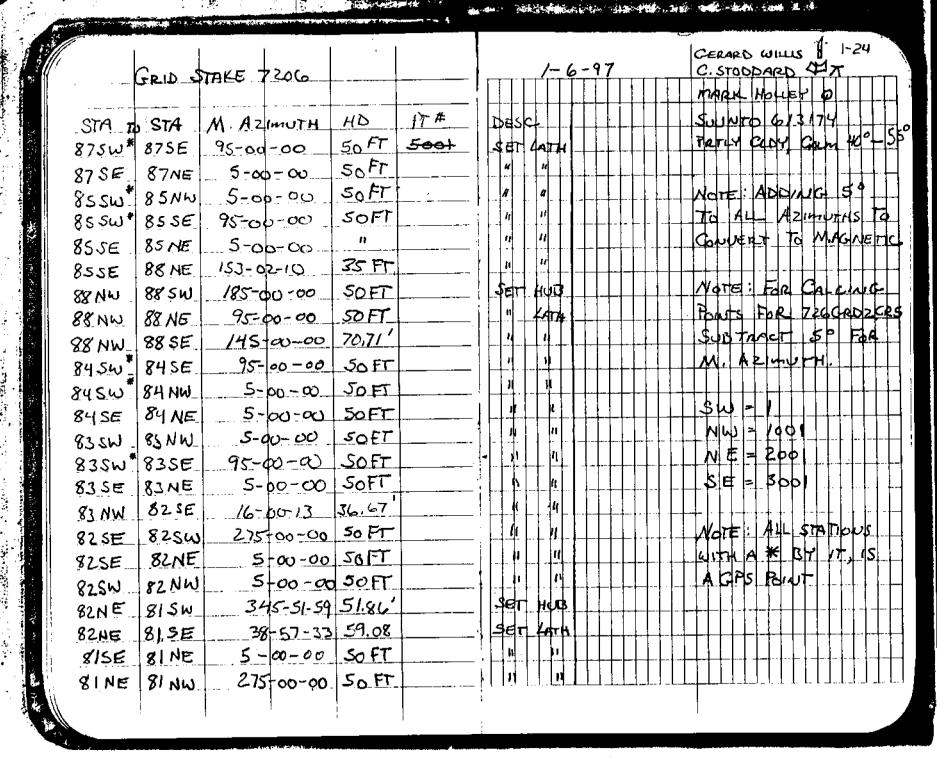
|    | 1                                     | 1                                     | 1                |         | · ·       |           | _              |  |       |                           |         | . 1        | _ ¬               |
|----|---------------------------------------|---------------------------------------|------------------|---------|-----------|-----------|----------------|--|-------|---------------------------|---------|------------|-------------------|
| 1  | Comp                                  | Const                                 | 777              | G STA   | ake Go    | 102       | 1              | 12-19-96   |       | C. STODIO                 | an La Z | 1-1<br>大氏  |                   |
|    |                                       |                                       | SW #             |         | ,         | -, a-0,   |                |  |       | MARKHO                    | 1 1 1   |            |                   |
| į. |                                       |                                       | SW #             | ]       |           |           |                |  |       | Topean 6                  |         |            |                   |
|    | l l                                   | ţ                                     | 3.58-            | 10-64   |           |           |                |  |       | PRISIN PO                 | _   ]   |            | - 16-3 <b>F</b> * |
|    |                                       | ا                                     |                  |         | 189.10(R) |           |                |  | 1 1 1 | 1.611114                  | ene d   | ,          | - <b>R</b> al-    |
|    | .                                     | 00 4 K                                | 0-00-0           | ,0      | 202.08(F) |           |                |  |       | Mostur   C4<br> 32°-  40° |         |            |                   |
|    | GRIDS                                 | A.                                    | A c 0 1          |         |           |           |                |  |       | 194 [ 197]                |         | 1 1        |                   |
|    |                                       | PEC !                                 | ASBLT            |         |           |           |                | 146  |       |                           | '       |            |                   |
| 1  |                                       | · · · · · · · · · · · · · · · · · · · | 4162%            |         | -         |           | 1 <b>1</b> ! [ | W# 43  |       |                           |         |            |                   |
|    | · · · · · · · · · · · · · · · · · · · | 1041                                  | ſ                |         |           |           |                | 202-55   |       | 141.14 (P)                |         |            |                   |
| 1  |                                       | 2041                                  | 4168             | 19211   | ).cc.el & | RESHOOT   | 1 43 14 16     | 7-49-4-49  | '     | 14412 CFD                 |         |            | -   -             |
| 1  |                                       | 30 411                                | 4169             | 4 137 N | onther    | 1-62400L  |                |  |       |                           |         | 111        |                   |
| l  | ·                                     | 70.44                                 | 4176             |         |           |           | GRE            | 111111   | ASILI |                           |         |            |                   |
| 13 | 4424                                  | 44  <br>3044                          | 1170  <br>-4171. |         |           |           | 44 NE          |  | 1179  |                           | -       |            | -     -           |
| J. | · .                                   | 1                                     |                  |         | ,         | · .       | 11/4/5         | 14941  | 1180  |                           |         | 111        |                   |
| L  | 1                                     | 3043                                  | 4172  <br>4173   |         | - " .* .  |           |                | <del>    -      -    -                      </del> | +     | <u> </u>                  |         |            | ·     ·           |
| 1  |                                       | 2043  <br>7043                        | 4179             |         |           |           |                |  |       |                           |         | 1-1        |                   |
|    |                                       | 3042                                  | 41.75            |         |           |           |                |  |       |                           |         |            | -                 |
| į. | ·                                     |                                       | 4176             |         |           | · ··· · · |                |  |       |                           |         |            |                   |
| 1  | ·                                     | 2042                                  | -                |         |           | · · ·     |                |  |       |                           |         |            |                   |
|    |                                       |                                       | 4177             |         | 1         |           |                | 11111  |       | 11111                     |         |            |                   |
| ļ. | 부 2 SW<br>시간                          | 7.2                                   | 4178             |         |           |           |                |  |       |                           |         |            |                   |
| -  | - '                                   |                                       |                  |         |           |           |                |  |       |                           |         |            | ]                 |
|    | -                                     |                                       | -                |         |           |           |                |  | 1   1 |                           |         |            |                   |
| :  | . [                                   |                                       |                  |         |           |           |                |  |       |                           |         |            |                   |
|    | . }                                   |                                       |                  | . }     |           |           | ]              |  |       |                           |         |            |                   |
| ì  |                                       |                                       |                  | ļ       |           |           |                | 11:11:1  | 1111  |                           | ' !     | ļ <b>i</b> | 1   1             |
| 1  | 1                                     |                                       | ł                |         |           |           |                |  |       |                           |         |            |                   |

The state of the s

| 1 1                   |  | ļ   |
|-----------------------|--|---|
| STAKE GRIDS           | 12-20-96   | <br>  |
|                       |  | C. stopones   |
|                       |  | MARK HOLL   |
| 55-33                 |  | ITOPOON STIS  |
| 1 1/60 031/69         |  | Paus in Abert   |
|                       |  | CLEAR, CALM   |
| 7@ 65 SW # 4/197      |  |   |
| 125675W # 67          |  | <del>┇</del> ┩╌╏╌╁╴╽╶┧╶┃╶┧╌┧╌╅  |
| BS AZ / 78 - 55-33    |  | <del></del><br><del></del><br><del></del><br><del></del><br><del></del><br><del></del><br><del></del><br><del></del><br><del></del> <del></del> <del></del>   |
| ES X0-00 00 (60.16(F) |  | <del>┇</del> ╌┰╌╏╴╏╶┃╶┨╶╏╶┟╴┟╴╽╴╞═╂   |
|                       |  | ┨╬╸┞╸┞╌┞╼╏  |
| GRID REC ASBUT        | <u> </u>   | <del>┇</del> ┇  |
| 6611E 2066 4207       |  | <del>                                     </del>  |
| 65 NW 1065 4208       | ┈┼┈┦╏╏╏╏╏╏╏┼┼  | - -   |
| 45 NE 2065 4209       | ·  |   |
| 68NE 2068 -1210       |  | <del>-</del>  |
| 10°SE 3068 +1211      |  |   |
|                       |  | <del>-</del>  |
| ;<br>                 |  | <del>┇</del> ┩┩   |
| 4                     | ·  | <del></del>   |
| 7-09                  |  | ╌┫┞═╁┄┆┈┧╌┠╌╂╌╂╌╂┈  |
| 75.39 (6)             |  | .   -   -   -   -   -   -   -   -                       -                       -                       -                       -                       -                       -                       -                       -                       -                       -         -   -   -   -   -   -   -   -   -   -   -   - |
| GRIO PEC ACELT        |  | 41.   |
| 275W 87 47W           |  | ╌╁╌╀╌┞╶┞╶╿╴┞  |
| 87 NW , 087 4217      |  |   |
|                       |  | <u> </u>  |
|                       |  |   |
|                       | RS 67 SW # 67  BC AZ / 78-SS-33  CS KO-00-00 (60.16(f))  GPID REC ASBUT  GGIE 2066 4207  65 NW 1065 4208  (65 NE 2065 4209  68 NE 2068 1210  (0° SE 3068 1211  75.39 (F)  75.39 (F)  75.39 (F)  75.39 (F)  75.39 (F)  75.39 (F)  75.39 (F) | #67 #65 55-33 760.03(0) -00 141.05(F)  TQ 65 SW # 4197 RS 67 SW # 67 RS AZ 178-S5-33 PS * 0-00-00 160.16(F)  GPID REC ASBUT GGIE 2066 4207 65 NW 1.065 4208 65 NE 2065 4209 68 NE 2068 1210 (0° SE 3068 2121)  2-09 27.80(0) 75.39 (6) Geno Pec fice T  |

The second secon

|   |  |   |   |            |                                       | X AND STATE | atamen alleria essentiales | no stronovanieni viden | gen da da da da da da da da da da da da da |
|---|--|---|---|------------|---------------------------------------|-------------|----------------------------|------------------------|--|
|   |  |   |   |            |                                       |             | *                          |                        | 1-23                                       |
|   |  |   |   |            |                                       |             | Camp C                     | GRIDS                  |  |
| 1 |  | - | · |            |                                       |             | STAKE                      | GRIDS                  |  |
|   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |   |   | <u>-</u> . |                                       |             |                            |                        |  |
|   | and the second s |   |   |            | - ··· · •                             |             |                            |                        |  |
|   |  |   |   |            |                                       |             |                            | -                      |  |
|   | A STATE OF THE STA |   |   | <u>.</u>   |                                       |             |                            |                        |  |
|   |  |   |   |            |                                       |             |                            |                        |  |
|   |  |   |   |            |                                       |             |                            |                        |  |
|   |  |   |   | -          |                                       |             |                            |                        |  |
| ! |  |   |   |            |                                       |             |                            |                        |  |
|   |  |   |   |            | , , , , , , , , , , , , , , , , , , , |             |                            |                        |  |



| 1-27  (7 / )  (8 / )  (9 / )   |
|--|
| φ  |
| E LIGHT A  |
| E LIGHT A  |
| 1 1 1 1 1 1  |
| <b>50</b> °  |
|  |
|  |
| . !  |
| .     -1 :     -1  |
|  |
|  |
|  |
| <u> - - - - - - </u>   |
| 925E 500   |
| \ \ \{ \cdot |
|  |
|  |
|  |
|  |
| -  -  -  -   |
|  |
|  |
|  |
|  |
| -  |
|  |
| ! ! !  |
| 4  |
|  |

p. Lea

|                 |  |                         | A series                              | a. Ale    | 34.5     | i Kristo           | 1                                |         | 皇""城         | g g                                | <b>第二种</b>  |               | 4          | 3 <b>3</b> 44 |          |  |
|-----------------|--|-------------------------|---------------------------------------|-----------|----------|--------------------|----------------------------------|---------|--------------|------------------------------------|-------------|---------------|------------|---------------|----------|--|
|                 | A STATE OF THE PARTY OF THE PAR | . a man-doffbar i diffi |                                       |           |          | Į.                 |                                  |         |              |                                    |             |               |            |               |          |  |
|                 | <u> </u>   | 1                       | }                                     |           |          |                    |                                  |         |              | -                                  |             |               |            |               |          | · <b>ટ</b> ક ૅે                                  |
| CAMP CR         | OFT 7206 5   | TAKE C                  | PIDS                                  | [-]       | r r r    | <b>_/-</b> `       | 7 <del>- 97</del>                | F-1F    | - [ <u>I</u> | - -3                               | Same<br>TTT | _ <i>C_6/</i> | 7017<br>   | 17 ow         | <u>د</u> | 117  |
|                 | <del></del>  | <u> </u>                |                                       | *    <br> |          | 1-1-1-             | <del>             </del>         |         |              |                                    |             |               |            |               |          | +++  |
| STA TO STA      | M. AZIMUTH   | HD                      | DESC                                  |           | - -      | .         -        |                                  | ļ.      |              | - - -                              |             | _ -           | 1.1:       |               |          | <del>                                     </del> |
| 945W* 94NW      |  |                         | SET LATH                              |           |          | +                  |                                  |         |              | <u> </u>                           | - - -       | .   .         | -  -  -    |               |          | 1-1-1  |
| 94 NW 94 NE     | 95-00-00   | SOFT                    | H H                                   |           |          |                    | $\downarrow\downarrow\downarrow$ |         |              | - -                                | .           |               | <b>↓</b> ↓ |               |          | 14.  |
| 94NE 94SE       | 185-00-00  | 50FT                    |                                       |           |          | <del>       </del> | <u> </u>                         |         |              | $\downarrow \downarrow \downarrow$ |             |               | .     _    |               |          |  |
| 15756 /S7NW     | 1  | 50FT                    | B #                                   |           | <u> </u> |                    | -                                |         |              |                                    |             |               |            |               | -   -    |  |
| ISTSW ISTSE     | 95-00-00   |                         | 31 h                                  |           |          |                    |                                  | -       | .   -        | <br>   -                           | _           |               | <u> </u>   | <u> </u>      |          | 1.   |
| 157 SW 157 NE   | 1  | 70.71                   | u //                                  | ,         |          |                    | 111                              |         |              |                                    | _           |               | 1          |               |          |  |
| 160 SW 160 NW   | <u> 5-00-00</u>  | 50 Ft_                  | n K                                   |           |          |                    |                                  |         |              |                                    |             | .   .   .     |            |               |          |  |
| 160 SW 160NE    | 50-60-00   | 70.7/                   |                                       | ·         |          | <b>↓ .</b>   .   . | <u> </u>                         |         |              |                                    | 1.          | ;             |            |               | .        | 111  |
| 160 SW 160 SE   | 95-00-00   | 50 FT                   | н !/                                  |           |          |                    |                                  |         |              |                                    | .   .       |               |            |               |          |  |
| 1605W# 159NE    | E08-37-44  | 34.93                   | ft 11                                 |           |          |                    |                                  |         |              |                                    |             |               |            | <br>  -       |          | . _ _  |
| 159 NE 159 SE   | 185-00-00  | 5∞FT                    | 17 11                                 |           |          | - - -              |                                  |         |              |                                    |             |               |            |               |          | $\Box$   |
| 159 NE 159 NL   | 275-00-00  | 50 FT                   | n li                                  |           |          | 111.               | <u> </u>                         |         |              |                                    |             |               |            |               |          |  |
| 159 NE 159 SW   | 230-00-00  | 70.71                   | 11 .10                                |           | _        | 111                |                                  |         |              |                                    |             |               |            |               |          |  |
| 15854* 158 NW   | 5 00 -00   | SOFT                    | 11 11                                 |           |          |                    |                                  |         | <u> </u>     |                                    |             |               |            |               |          |  |
| 158 SW* 158 SE  | 95-00-00   | SO FT                   | n v                                   | ,     .   |          |                    |                                  |         |              |                                    |             |               |            |               |          |  |
| 158 SE ISKNE    | 5-00-00  | SOFT                    | 1) 1,                                 | ·         |          |                    |                                  |         |              |                                    |             |               |            |               |          | 111  |
| 152 9 152 NE    | 1 I  | SOFT                    | 11 11                                 | Ma        | UNG      | \$00               | + 14.41                          | IJŧ.    | ta.          | No.                                | 741         |               | 152        | \$40          | ما       | 4) /52   |
| ISLBE " ISLSW   | 275-00-00  | SOFT                    | н дуд                                 | .         |          |                    |                                  |         |              |                                    |             |               |            |               |          |  |
| KZSE* ISZNL     |  | 1 1                     |                                       |           |          |                    |                                  |         |              |                                    |             |               |            |               |          |  |
| 149 SW * 149 NW |  | SOFT                    |                                       | `         |          |                    |                                  |         |              |                                    |             |               |            |               |          |  |
| 149 SW* 149 NE  | 50-00-00   | 70.71                   | 11 11                                 |           |          |                    |                                  |         |              |                                    |             |               |            |               |          |  |
| 1495W# 150NE    |  |                         | D 4                                   |           |          |                    |                                  |         |              |                                    |             |               |            |               |          |  |
|                 |  |                         | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | •         |          |                    |                                  |         |              |                                    |             | 11            |            |               |          |  |
|                 |  |                         |                                       | · d d     | <b>.</b> | 1 k                | 1i                               | .te = 6 | .1 4.2       | <del>'- </del> -'-                 | <u>-</u> l  |               | (l.        | , T-F         |          | J  |
|                 |  |                         |                                       |           |          |                    |                                  |         |              |                                    |             |               |            |               |          | 4  |

から 日本をとてき

|   |                | Antipology on the | क्षाप्रकारक व<br>- |         | 5.1      |          |           |                 |                |           |         |           |                  |
|---|----------------|-------------------|--------------------|---------|----------|----------|-----------|-----------------|----------------|-----------|---------|-----------|------------------|
|   |                |                   |                    | D. Saat | I _      |          | ·<br>:    |                 |                |           |         | 1~        | 3t               |
|   | i              |                   |                    |         | GRIDS    |          | <br>. [ ] | /- <i>8-9</i> 7 | 7<br>- [ ] ] ] | 1 1 1 1 1 | ODDARI  |           | .1 -1 - 1        |
|   |                | _ · 1             |                    |         | ه٤ كوس   |          | '         |                 |                | 1 1 1 1 1 | HOLLE   |           |                  |
|   | l.             | סוווו א           |                    |         |          | 34,5516  |           |                 |                | 1 1 1 1 1 | 01 # 1  | 1   1     | 4                |
|   |                | E 1763            |                    |         | E 1764.  | 568,7692 |           |                 |                | 1 1 1 1 1 | IM POLE | 1 1 1 1   |                  |
|   |                | BS AZ             | ;                  |         | 894:33(A | 5        |           | 1-1-1-1         | -              | - CX441   | y, Caum | , 329#    |                  |
|   |                | I33 ¥ (           | 00-                | PO      | - G      |          | .         |                 |                |           |         |           |                  |
|   |                | REC               | A co. 1            |         |          |          | 840       |                 |                |           |         |           |                  |
|   | GR10<br>1785W  | 178               | ASBUT<br>5001      |         | :        |          |           | 139 WW          | 1111           | 12/11/07/ | 50 Ft   | DE        | 1 1 1            |
|   | 178 NW         | 1178              | 5002               |         |          |          | 139 Sw    | 139 NE          |                | 2-00      | 70.71   | 1 2 3     | Se               |
| 4 | 178 NE         | 2178              | 5003               |         |          |          | 13950     | 39 5€           |                | 0-00      | 50.15   | H ]   .   |                  |
|   | 178 SE         | 3178              | 5004               |         |          |          |           |                 |                |           |         |           |                  |
|   | 1775W          | 177               | Soos               |         | _        | · ·      |           |                 |                | VOTE      | SEE     | ACE       | 34               |
|   | 177NW          | 7177              | 5006               |         | ]        |          |           |                 |                | FOR       | Lacares | CARVE     | h \$ 1           |
|   | 177 NE         | 2177              | 5007               |         |          |          |           |                 |                | INFO      | smation | م الله ار | 44               |
|   | 177SE          | 3177              | 5008               |         |          |          |           |                 |                | 1 1 1 1 1 | D GRIDS |           | <del>}///S</del> |
|   | 1805W          | 180               | 5009               |         |          |          |           |                 |                | PACE      | A STATE | ace 3     | ≥                |
|   | 180 MM         |                   | S010               |         |          |          |           |                 | -              |           |         |           |                  |
|   | 180 NE         |                   | Soll               |         |          |          | .   +   + |                 | .              |           |         |           |                  |
|   | 180SE          | 3180              | Solz               |         |          | •        |           | <b> </b>        |                |           |         |           |                  |
|   | 1795W<br>179NW |                   | 5013               |         |          |          |           |                 |                |           |         |           |                  |
|   | 179 NE         | 2179              | 5014<br>5015       |         |          |          |           |                 |                |           |         |           |                  |
|   | 179 SE         | 3179              | 5016               |         |          |          |           |                 |                |           |         |           |                  |
|   | 11706          | - • • •           | <b>~</b> .•        |         | İ        |          |           |                 |                |           |         |           |                  |
|   | ,              |                   | ·                  |         |          | )        |           |                 |                |           |         |           |                  |
|   | :              |                   | •                  |         |          |          | •         | iri II          | ,              |           |         |           |                  |
|   |                |                   |                    |         |          |          |           |                 |                |           |         |           |                  |

| Camp    | CRUFT  | 77.00           | STAKE              | Carr        | ,  | }              |                |               | 1-8-9          | <del>}</del> 7                                 |            | ``        | 0        |          |          | 32         |
|---------|--------|-----------------|--------------------|-------------|--|----------------|----------------|---------------|----------------|--|------------|-----------|----------|----------|----------|------------|
|         | CKOPI  |                 | 31177              | . G-(C) CS. | <b>.</b>                                     |                |                |               |                |  |            | James     | CONDITIO | کبېډ     | П        | П          |
| STA T   | STA    | M. A2           | MUTH               | HÞ          | Desc   |                | STA            | 70            | \$7a           | MA   | A2.        | MUTH      | 45       | I        | )<br>>E: | <u>د ۔</u> |
| 125 SW  | 125 NW | 5-00            | -00                | 50 FT       | SET 4  | <u> АТ Н</u>   | 1288           | 4             | 23 14          | 1 1 1 1  | - 00 -     |           | 50 FT.   | 11       |          | 24 T N     |
| 125SW   | 125NE  | <u>50-0</u>     | 000                | 70,71       | <u> </u>                                     | - 4            | 123 5          | ال            | 23nE           | 1  | )-CO       |           | 70.71    | 1        | ,        | ų          |
| 125 SW  | IZESE  | 95-00           | 2 <u>- 00</u>      | 50 FT       | н  | #              | 2350           | <u> </u>      | 235E           |  | , <u> </u> |           | 50 FT    | 11       | ,        | 11         |
| 126 SW  | 126NW  | 5-00            | -00                | 11          | - 11   | <u> </u>       | 1245           | ا ایا         | 24/14          |  | 1   1      | 1 1 1 1 1 | II II    | 1        |          | Tr.        |
| 126 SW  | 126 NE | <i>-</i> 0≥     | 0-00               | 70.71       | <u> </u> :h                                  | <u>h</u> :     | 24 50          | ا ا           | 24 45          | <u> </u>                                       | - 00       | -00       | 70.71    | 1        | ,        | lı         |
| 126SW   | 1265E  | 95-0            | o-00               | 50 FT       | . 1  | <u></u>        | 121150         | ון            | 248€           |  | 1-00       |           | 50 FT    | Ţ,       |          | Li         |
| 138 SW  | 138NW  | <u> </u>        | 0-00               | - 11        | IJ   | 1              | 122 54         | 1             | کے اب          | / <u>                                     </u> |            | -90       | 1/1      |          |          | ¥          |
| 138 SW  | 138NE  | <u>- ده - د</u> | <del>೧೦-೦೦ .</del> | 70.71       | h  | <u>"</u> ,     | 122 54         |               | SINE           | 50   | - 00       | - 00      | 70.71    |          |          | ч          |
| 1382M   | 138S€  | 95-0            | 0-00               | SO FT       | *  | <del>"</del> . | 122 54         | ا ر           | 22.SÆ          | 9  | 4-00       | -66       | 50 FT    | ١,       |          | 1,         |
| 137 NW  | 137NE  | <u>9</u> 5-0    | 0-00               | <u>H</u>    | n  | <u>lı</u>      | RISU           | ). [ ]        | 21/11/         |  | - 00       |           |          | <u> </u> |          | 4          |
| 137NW   | 137SE  | <u>/40-</u> 9   | <u>v-90</u>        | 70.71       | <u>h</u>                                     | <u>ų :</u>     | 12 54          | الا           | ZINE           | ५०   | 3-00       | -00       | 70.71    | (1)      |          | 1)         |
| 137NW   | 13750  | <u> 185-</u>    | xo-00              | 50 FT       | tı   | 10 5           | 12 54          | 2   1         | 21SE           | 1119   | + 00       | +00       | 50 FT    | 13       |          | t)         |
| 175 Sw. | 175 NW | <u>5 -</u> q    | 0-00               | <u>n</u>    | <u> </u>                                     | * -¹<br>  -    | 154154         |               | sh Mu          |  | - 00       | + 00      |          | 1 1      |          | ti         |
| 752 2M  | 175 ME |                 |                    | 70.71       | h  | <del>*</del> : | 15454          | 1             | SH NE          | <u>                                     </u>   | x-100      | - do      | 70.71    | H        |          | h          |
| 175.SW  | 175 SE | 95-             | 00 - 00            | SO FT       | <u>l</u> i                                   | 11             | 15450          | <u>يم   د</u> | 5 <u>4 S</u> € | 95   | 1-00       | -ob       | 50 #1    | <u> </u> |          | υ          |
| 174SW   | 174NW  | 500             | -00                |             |  | <u>"</u> 1     | /5 B Sw        |               | 43 VW          |  | 1 1 1 1    | 111       |          |          |          | [tt        |
| 174SW   | 174 NE | _5o-a           | ၁-တ                | 70.71       | <u>li</u>                                    | ዛ              | 15354          | <u>.</u>   4  | S3 N€          | stc  | 1-00       | -00       | 70.7     | 1 10     |          | u          |
| 1745W   | )74 SE | 95-             | 00-00              | 50 FT       | <u> </u>                                     | "              | 15354          | 4 ∫د          | <u> 325€</u>   | 95   | - 00       | -00       | SOFT     | 110      |          | μ          |
| 173.SW  | 173NW  | <u>5:0</u>      | 0700               | h           | <u>))                                   </u> | 11             | 1/5\$ Su       | <b>}</b>      | รรพน           |  |            | 1 1 1     |          | N        |          | и          |
| 1735W   | 173 NE | <i>5</i> 0-0    | 2-00               | 70,71       | h  | ¥              | 15554          | ,   }         | ss Me          | <b>                 </b>                       | -00        | -00       | 17671    | <u> </u> |          | <u>u</u>   |
| 173540  | 173 SE | 95 <u>-</u> 0   | 0-00               | So Pr       | li .   | #              | 15 <b>5</b> 54 | ᆁᅕ            | SPE            |  | 1-00       | 400       | 50 FT    |          |          | 11         |
| 176 SW  | 176NW  | . 5~ <u>0</u> ¢ | -00                | h           | 14   | <u>"-</u>      | 140 SE         |               | 10 NE.         | 5  | <u> </u>   | <u> </u>  |          | 1,       |          | U          |
| 1765W   | 176 NE | <u> 50-0</u>    | 5-06               | 70.71       | <u>lı</u>                                    |                | 140 4          |               | 40 SW          | 1 27   | - ad       | 144       | 50 FT    | n        |          | บ          |
| 17650   | 176 SE | 95-6            | xo-xx              | 50 FT       | <b>3)</b> 1                                  |                | 140 SE         | . 1           | 40 NW          |  | 0-00       |           | 70.71    | 11       |          | Ŋ          |

THE REAL PROPERTY AND THE PARTY OF THE PARTY

A PARTY OF THE PAR

を受ける 100mm では、100mm

Specification are con-

| Å  | Jan Barret | · ***. · 日柳  |        |             |          |           | francisco de su |         |        |             |                   | the trains and a supply | W. 17    |
|----|------------|--------------|--------|-------------|----------|-----------|-----------------|---------|--------|-------------|-------------------|-------------------------|----------|
| 17 |            |              |        | ,           | 1        |           |                 |         |        | ,           |                   | 1.3                     | 4        |
|    | " CAMP     | I _          | 7206   | *           | 1        | l <u></u> |                 | /-10-97 | '      | C. STO      | PDARD             | X                       | :        |
|    |            | ļ —          | WRY 6  |             | ì        | 24 2 3305 |                 |         |        | mark        | HOLLE             | 서 <b>수</b> [ ]          |          |
|    |            |              | 79.958 |             | N 11117  | 34.5510   |                 |         |        | 1 1         | GTS 201           |                         | 1 1 1    |
| 1  |            |              | 959.34 | i           | E 1764.  | 568.7092  |                 |         | į      |             | POLE              |                         | e/ch     |
|    |            |              | 42-57  |             | 894.331  | (e)       |                 |         |        | 1 1 1 1     | <del>ن</del> کے ک |                         |          |
|    |            | នេះ ≱        | 0-00-  | i           | 894.31   | (~)       |                 |         |        | CLEAR       | BREEZ             | 32                      | <b>1</b> |
|    | 0          |              | i .    | SHOT        | •        |           |                 |         |        | င်ယ များ    |                   |                         | i i I    |
|    | GRID       | REC          | ASBLT  |             | <br>     |           |                 |         |        | Note        |                   |                         | :        |
|    | KESW       | 155          | 5017   |             | <br>     |           |                 |         |        | SHOT 6      | J MH 🕽            | me 25                   | F        |
|    | 121 SW     | 121          | 5018   |             |          |           |                 |         |        | POD :       |                   |                         |          |
| 1  | 127.SW     | 122          | 5019   |             |          |           |                 |         | · 1    |             |                   |                         |          |
|    | 12456      | 151          | 2050   |             |          |           | XO 173          |         | 1      |             |                   |                         |          |
|    | 1572m      | 153          | 5021   | Ŋ 1111123   | 7666     | :         | BS Low          |         | 4 1 1  |             |                   |                         |          |
|    | 1735W      | 173          | 5022   | E 17636     | 54. 9758 | '         | BS AZ           | i ! i . | 1      | 302. 61     | رها               |                         |          |
| Í  | 12650      |              | 5023   | !           |          |           | BS KO           | -00-0   | 0      | 302 [4]     | (n)               |                         |          |
|    | 125 SW     | 125          | 5024   | į           |          |           |                 |         | SIDE 5 | 46 <b>†</b> |                   |                         |          |
|    | √ 153 Sw   | 153          | 5025   |             |          |           | GRID            | REC     | ASBUT  |             |                   |                         |          |
|    | v 1545     | 154          | 5026   | !           |          | 7         | 17:15W          | 174     | 50 યેલ |             | 1 1               |                         | .        |
|    | √ 158 Sm   | 138          | 5027   |             |          |           | 175 SW          | 175     | 5030   |             | ! .               |                         |          |
| 1  | V 140 SE   | 31-10        | 2021   | <br>        |          |           | 137'NW          | 11/37   | 5031   | 111         | į ·               | ' :                     |          |
|    |            |              | !      | ;<br>       |          | •         | 176.SW          | 176     | \$03Z  | 1 1         |                   |                         | i<br>i   |
| 1  |            | į            |        | ;<br>4<br>] | •        |           | 127 NW          | 1127    | 5033   | 1 '         |                   | 1                       | !        |
|    |            | •            | İ      | ,           | ]<br>i   |           | 158 NM          | 1128    | 5034   |             |                   |                         | :        |
|    |            | <u> </u><br> |        | ;<br>;      |          |           |                 | 11141.  | 5035   |             |                   |                         |          |
| •  |            |              |        | ;           |          |           | 133 NW          |         | 5036   |             |                   |                         |          |
| 1  |            | <br>         | 1      | i           |          | '         | 129 NW          | 1129    | 5037   |             | 1 2               | •                       |          |
| Λ. | Xii.       |              |        |             | '        |           |                 |         |        |             |                   |                         |          |

| F  |                  | ind the matter | 4                    |                 | _     |            |       |            | ,                              |          |               |          | -   |                     |
|----|------------------|----------------|----------------------|-----------------|-------|------------|-------|------------|--------------------------------|----------|---------------|----------|---|---------------------|
| 4  | 1 Camp           | CROFT          | 7206                 | STAKE           | GRIDS |            |       |            | 1-10-9                         | ***      |               |          | 1-35  | ;                   |
| 4  |                  | STA            | M. Az                |                 | AA    | be         | 30    |            | , 10 ,                         | <i>.</i> | SAM           | E CONDI  | 11045   | [ ]                 |
| 17 | 012-7 NW         | 1275W          | 185-0                |                 | SO FT | SET        |       |            |                                | . 1      | <br>          |          |   |                     |
|    | " 127NW          | 127 SE         | 140-                 |                 | 70.71 | i,         | 1)    |            |                                | i        | NoTE:         |          |   |                     |
|    | # 127NW          | 127NE          | 95-00                | :               | SOFT  | ħ          | F1    |            | •                              | ·        | <del> </del>  | SHOT WIT |   | οŊ                  |
|    | 4 128 NW         | 1285W          | 185-9                |                 | - h   | ก          | 11    |            | ;<br>;                         |          |               | Gro ro   | AT  |                     |
|    | " 128NW          | 128 SE         | 140-                 |                 | 70.71 | h          | В     | Sta n      | STA                            | MAG. A   | 2 ( mai CT:L) | 1        | DESS  | . !                 |
|    | "128 NW          | 128 NE         | _                    |                 | 50 FT | ክ          | 11    | . 147 S W  | Γ                              |          |               | 50 FT    | DESC  | . i                 |
|    | 141NW            | 14150          | 185-0                |                 | h     | h          | ή     | *          | /47N E                         | l '      |               | 70.71    | SET ZA  | Γ <del>ι</del><br>∐ |
|    | WATPI #          | 141SE          | 140-                 | 20 - <b>(70</b> | 70.71 | H          | n     | <b>#</b> 1 | 147 S.E.                       |          |               | SOFT     | $\int_{\Omega} \frac{1}{ y } dy$                |                     |
|    | MATH             | 141NE          | 95-00                | -00             | 50 FT | k          | h '   | 148 50     | 1 1                            | _        |               | 11       | 4 1)  | :                   |
|    | 1133 NW          | 133 SW         | 185-00               | -00             | H.    | 1ı         | ij    | 148 SW     |                                |          |               | 70.71    | h u   |                     |
|    | n 133 Mei        | 1335E          | 1410-6               | 0 - 00          | 70.71 | h          | H     | 14850      | 1                              | 95-00    | 1             | SOFT     | h h   |                     |
|    | 中国2月60           | 133 NE         | 95-00                | o- 00           | 50 FT | lı         | ħ     | 197 SW*    | 197NW                          | J- 00    |               | ) 11     | -{ n n  |                     |
| ī. | 11 129 NW        | 12954          | 185-00               | 00-0            | и [   | n          | İl    | 19750      | 197 NE                         | 50 ~ 00  | - 00          | 70.71    | И Я   |                     |
|    | 11 129 NW        | 12955          | 140-p                |                 | 70.71 | ir         | ł.    | 1975W      | 197 SE                         |          | 1 .           | 50 FT    | $\int_{\mathbb{R}^n} H = \int_{\mathbb{R}^n} h$ |                     |
|    | 11 129 NW        | 15JME          | 95-60                |                 | 50 FT | lt         | H     | • •        | :                              |          |               |          |   | ł                   |
| 1  | /69 SW*          | 169 NW         | 5-0p                 | -00             | R     | n          | ц.    |            | $\mathbf{v}_{i-\frac{1}{2}}$ : |          |               | i .      |   |                     |
|    | 169 SW*          | 169NE          | 50-00                |                 | 70.71 | h          | Ð     |            | : :                            |          |               |          |   |                     |
|    | 1695W            | 1695E          | 95-qc                |                 | 50 FT | H          | þ.    |            |                                | ı        | !             |          | · '   | İ                   |
|    | 168SU            | 168 NW         | S - 00               |                 | 11    | b          | и.    |            |                                |          | i             | T.       |   | ļ                   |
| 1  | 168 SW.          | 168 NE         | 50-qc                |                 | 70.71 | Ŋ          | b<br> |            | 1                              |          | :             | :        | •   |                     |
|    | 16%56            | 168 =!         | 95 - ¢c              | 00 0            | 56 FT | 11         | ''    |            |                                |          |               |          |   |                     |
|    | 1705W*           | 1700 (16)      | 5-00                 | >-00            |       | н          | ĮĮ, į |            |                                |          |               |          |   | i                   |
| 1  | 1705W*<br>1705W* | 1700 C         | 20 <del>15</del> -do | - 00            | 10.7  | 1 <b>4</b> | h .   |            |                                |          |               |          |   | -                   |
| 1  | (11020)          | 170SE          | 43-0                 | 2-00            |       | H          | Ч     |            |                                |          |               |          |   | - /                 |
|    |                  | :              | į                    |                 |       |            |       |            |                                |          |               |          |   |                     |

| Camp Crofit 7206<br>STAKE GRIDS | for the second |   |   |    |        |       | euro Bolo, e - Presidente | /-J |
|---------------------------------|----------------|---|---|----|--------|-------|---------------------------|-----|
|                                 | ļ              |   | • | CA | MP CRE | PRIDS | 20Ka                      |     |
|                                 |                | • |   |    |        |       |                           |     |
|                                 | •              |   |   |    |        |       |                           |     |
|                                 |                |   |   |    |        |       |                           |     |

|            | افعيد           |                                   | رهن در خواه و در برای این این این این این در برای در این در در در در در در در در در در در در در | رد المراقع المراجع على بعد مساور.<br>المراجع المراجع عن في المراجع عن المراجع عن المراجع عن المراجع عن المراجع عن المراجع عن المراجع عن المراجع عن |             |                      |                         |
|------------|-----------------|-----------------------------------|---|--|-------------|----------------------|-------------------------|
| A          | - AP 543        | ا . ب                             |   | !  |             |                      |                         |
|            | Cami            | CPOE                              | T 7206 S  | TAKE C   | a inc       | 1-13-97              | 1-3.                    |
|            |                 |                                   |   | 0,   | 103         | . 7206 GAD 2. CRS    | MARK HOLLEY O           |
|            | STA T           | STA                               | M. AZIMUTI  | 4 110  | Desc        | NoTES                | SULLITO 613174          |
| 1          |                 |                                   | 185-00-00   |  |             |                      |                         |
|            |                 | , ,                               |   |  |             | 1785E = 178NE # 5004 | PRILY CLIDY, CALM 25    |
| <b>i</b> i |                 |                                   |   |  |             | MOUED GRID SO' SOUTH |                         |
| 1          | /- N            |                                   |   |  |             | Say H                |                         |
|            | (5028)<br>140SE | 139 NE                            | 291-30-0  | () 76 76   | LOCATE LATH | 139NE = 5038         |                         |
|            | ľ               | 1705W                             | _   |  |             | 170 NW = 170 SE NOW  | A MOUED                 |
|            |                 | 170 NW                            | 320-00-0  | ſ  | i .         | 170SE = 5039         | N 170 GRGINAL           |
|            |                 | 170 NE                            | 5-00-0  |  |             | 1903 <u>H</u> - 9037 | GPS .                   |
|            | 1,000           | 77017                             | 3 65  | 8 30 11  | 1 .         | · ;                  | <b>5</b> (ii            |
|            | 171NE           | 171SE                             | 185-00-0  | 50 FF  | #t 11       |                      | 1 170 GREWAL            |
|            |                 | 1715W                             |   | 1  | 1           | 110 10 117 112 1100  | July GHU MOSW           |
|            | 171Mg           | -                                 | 275-00-00   |  | 11 HO       | 171 NE = 504a        | THE MOVED               |
|            | 171135          | 111.440                           | 2/3700-00   | , 2011   | " LATH      |                      |                         |
| 1          | NINE            | 17 Z SW                           | 90  |  | C           | (77)                 | NOTE: ALL POINTS CALCE! |
|            | ) I I NE        | 1,50                              | 17-30-60  | )   C1.55  | 24 HOB      | 172 SW = 5041        | MINUS 50 FOR TRUE       |
| 1          | 172 6           | 175 40.5                          |   | , , , , , , , , , , , , , , , , , , ,  | IA          |                      | AZIMUTH                 |
| <b>a</b> : |                 |                                   | 5-00-00   | 50 FT  | SET MTH     |                      |                         |
| 1.         |                 | 172 NE                            | 50-00-00  | 70.71  |             |                      |                         |
|            | 17250           | 11696                             | -95-00-00   | 50 FT.   | -           |                      |                         |
|            | 1/ (1 -         |                                   | 272   | , , , , †  | _           |                      | . '                     |
|            | 168 SW          | 1622M                             | 272-30-00   | /06 - 60 7   | SETHUB      | NEW.165 SW = 5042    |                         |
|            | 1. ~ .          |                                   |   |  |             | 1                    |                         |
| (          | 162.7m          | 165 NW                            | 5-00-00   | SOFT   | SET ATH     |                      |                         |
| <b>1</b>   | 105 SW          | 162 NE                            | 50-00 (0<br>95-00-00  | 170.71   |             |                      |                         |
| Till.      | 705 Swit        | $u_{\gamma_{-}} \pi_{\gamma_{-}}$ | 42-00-60  | : Je [[]   | 17 11       |                      | !                       |
|            |                 |                                   |   |  |             |                      |                         |

| CAM     | P CR    | 0FT 7206   | SET G                                  | R1125     | /-13-97           | SAME CONDITION |
|---------|---------|------------|--|-----------|-------------------|----------------|
| STA 7   | o STA   | M. AZIMUTH | 110-                                   | Desc      | NOTES             |                |
| 1685 W  | 166 84  | 88 30-00   | 103,70                                 | SET HIJE  | NEW 146 SW = 5043 |                |
| 16650   | 166NG)  | 5-00-00    | SO FF                                  | SET LATH  |                   |                |
| _       | 166 115 |            | 70.71                                  | ì         |                   |                |
|         | 16655   | ·          | SO FT                                  | n h       |                   |                |
|         | ·       |            |  |           |                   |                |
| 1665W   | 167 NE  | 180-00-00  | 70.50                                  | SET LATH  | NEW 167NE = 5044  |                |
|         |         |            | ·                                      |           |                   |                |
| 167NE   | 167 SE  | 185-00-00  | 50 FT                                  | SET LATH  |                   |                |
| 167NE   | 1675W   | 230-00-00  | 70.71                                  | " HUB     |                   |                |
| 167NE   | 167 NW  | 270-00-00  | SOFT                                   | " LATH    |                   |                |
| i       |         | ;          |  |           |                   |                |
| 20050)  | SOONO   | 5-00-00    | SO FT                                  | SET LATH  |                   |                |
| 2005W   | SOUVE   | 50-00-00   | 70.71                                  | js 17     |                   |                |
| ેજીકહ્ય | 5002E   | 95-00-00   | SOFT                                   | tı li     |                   |                |
|         | 100     | 22/        |  |           |                   |                |
| 2005W   | 199 NE  | 226+42-39  | 61.62                                  | ii II     |                   |                |
| 100     | 100.5-  | 19         | ا ــــــــــــــــــــــــــــــــــــ |           |                   |                |
| , , , , | 199 SE  | !          | 50 FT                                  | SET LATH. | J.                |                |
|         | 1995W   |            | 70.71                                  | " HUB     |                   |                |
| 199 NE  | 199 NW  | 275-00-00  | 50 FT                                  | " LATH    |                   |                |
|         |         |            | İ                                      | ,         |                   |                |

...

AND MARKET

| -13-97 |  |
|--------|--|
|--------|--|

| . !       | _      |       |              |       |            |       |        |
|-----------|--------|-------|--------------|-------|------------|-------|--------|
| Camp (    | CROFT  | 7206  | STAKE        | GRID  | S          |       | 1-13-9 |
| JMA T     | o STA  | M. Az | IMUTH        | нD    | DESC       | Notes | ·      |
| 1975w     | 198NE  | 229-0 | D5-2C        | 44.55 | SET LATH   | r     |        |
| 198NE     | 1985E  | 185-0 | <b>⊙~</b> co | 50 FT | SET LATH   |       | :      |
| 198 NE    | 1985W  | 230-  | 00-00        | 70.71 | 4 /IUB     |       |        |
| 198 NE    | 198NW  | 275-0 | 0-00         | SO FT | " LATH     |       | :      |
| 1965W     | 196 NW | 5- 60 | 9-OC         | 50 FT | SET LATH   |       |        |
| 1965W     | 196 NE | 50-0  | 0-00         | 70.71 | 17 #1      | •     |        |
| 19654     | 1965E  | 95-0  | 00-00        | SOFT  | ti li      |       |        |
| 196 Sw    | 193SE  | 342-  | אין ויס      | 56.46 | SET LATH : |       |        |
| 193 SE    | เมระก  | 275   | -סט-טני)     | 50FT: | SET HUB    |       |        |
| 193 SE    | 193 NW | 320-  | 00-00        | 70.71 | 11 LATH    |       | <      |
| 1935€     | 193 NF | 5-0   | o-00         | 50 FT | n P        |       |        |
| 195 SW    | 195 NW | 5-0   | o~ ⊘O        | 50 FT | SET LATH   | •     |        |
|           | 195 NE |       | p- 00        | 70.71 | H 11       |       |        |
| •         | 195 SE | 95-0  |              | 50 FT | u u        |       |        |
| 195 SW)   | 19456  | 332-  | 55- 64       | 79.08 | SET HUB:   |       |        |
|           | 19420  |       | 0~00         | 50 FT | SET LATIT  |       |        |
|           | 194 NE | 50- o | <b>ი</b> ~ల∂ | 70,71 | H H        |       |        |
| 🖊 19નદ્રખ | 945E   | 95-06 | 00 - 0       | SO FT | 11 I)      |       |        |

|    | i stranger <del>ing</del><br>• | in the second se | <u> </u> |  |
|----|--------------------------------|--|----------|--|
|    | 1                              | !  |          | 1-40   |
|    |                                |  |          |  |
|    | !                              |  |          | CAMP CRUET 720C  |
|    |                                |  | !        | The state of the s |
|    | •                              |  | . :      |  |
|    | :                              |  |          |  |
|    |                                |  | •        |  |
|    | •                              | •  |          |  |
|    | !                              | ;  |          |  |
|    |                                |  |          |  |
|    |                                |  |          |  |
|    | •                              |  |          |  |
|    | i                              |  |          |  |
|    | 1                              | •  |          |  |
|    |                                |  |          |  |
|    |                                |  | : !      |  |
|    | İ                              |  |          |  |
|    | !                              |  |          |  |
|    |                                |  | •        |  |
|    |                                |  | •        |  |
| 11 |                                | •  |          | •  |

|   |        | Camb          | CROFT  | 7206  | STAK              | E GRII         | D <sub>.</sub> S |                | ţ   |   | ,   | -   | 4-4        | <del>9</del> 7 | ·   | `   | 1   | 5701<br>ARK |     |             |     | ጉ   |     | 4)         |
|---|--------|---------------|--------|-------|-------------------|----------------|------------------|----------------|-----|---|-----|-----|------------|----------------|-----|-----|-----|-------------|-----|-------------|-----|-----|-----|------------|
|   |        | STA T         | 6 STA  | M. AZ | HTUMI             | HD             | DE               | SC             |     |   |     |     |            | ,              |     | 1 . | Su  | اندل        | то  | 61          | 317 | 74  | ;   |            |
|   |        | 52 <b>5</b> w | 52 MJ  | 5-00  | -00               | 50 FT          | SET              | - 4ath         | ı ' |   | :   |     |            |                |     | ; • | BI  | - Po        | Þ,  | Zo          | 3   | TA. | PΕ  | ! .        |
| 1 |        | 52 Sw         | 52 NE  | 50-0  | <i>o∽00</i>       | 70.71          | ja<br>I          | H              |     |   | 1   | i . | 1          | +              |     | 1 1 | CL. | EAR         | C   | 1.4         | 2   | هه  | 100 | ? <u>+</u> |
|   |        | 52 Sw         | 32.58  | 95-10 | ر <b>ت</b> ري د ر | 50 FT          | 1)               | v              |     |   |     |     |            |                | :   |     |     |             | : : | :<br>:<br>! |     | ١,  | ٧   | !          |
|   |        | 52 Sw         | SINE   | 268-  | 01-06             | 58.42          | SET              | LATH           | t 1 |   |     |     |            | i              | ,   | •   |     |             |     |             |     |     |     | '  <br>    |
| M |        | 525w          | 49 SE  | 315   | 18-51             | 86,56          | Ц                |                |     |   |     |     |            |                |     |     |     |             |     |             |     |     |     |            |
|   |        | 52 Sw         | 50 S€  | 277   | 57-39             | 116.16         | SET              | LATH           | 1   |   | i   | •   |            |                | : - |     |     |             |     |             | 1   | •   |     |            |
|   |        | 51 NE         | SISE   | /85-0 | າ()− <i>ຕ</i> ຣ   | 50 FT          | Sut              | - <b>L</b> 11H |     |   |     |     | ļ <u>;</u> | 1              |     |     | ;   |             |     |             | , ! |     | .   |            |
|   | · M1   | 51 NE         | 515W   | 230-6 |                   | 70.71          |                  | HUB            |     | ' | 1   |     | . :        | ٠              |     |     | ' " | i           |     | ٠,          | - : | ;   |     |            |
|   |        | 51 NE         | 51 NW  |       | 00-00             | SO FT          |                  | 4114           | .   | ı | i   | :   |            | 1              | ;   |     |     |             |     |             | i   |     | 1   |            |
|   |        | 40 cm         | 2100.  | 2 7   |                   | <i>-</i>       | <b></b>          |                | •   |   |     |     |            |                |     |     |     |             |     |             | ;   | 1   |     |            |
|   |        | ' !           | 49SW   | 1     | 20-00             | 50 FT          |                  | HUB            |     |   |     | _   | •          | :              |     |     |     |             |     | · . :       |     | ,   | 1   | :          |
|   |        | 49SE<br>49SE  | 49 NW  | i     | 00 00<br>00 00    | 70.71<br>50 FT |                  | LATH           |     |   |     |     | •          |                |     | ,   |     |             |     |             |     |     | 1   | ;          |
|   |        | 1130          | (771.5 |       | , 50              |                |                  | -              |     |   |     |     |            |                |     |     |     |             |     |             |     |     |     | i          |
| Н |        | 50 SE         | 505W   | 275-  | ω-00              | SOFT           | SET              | HOB            |     |   | . ! |     |            |                | · · | ;   | , : |             | :   |             |     |     |     | ·<br>      |
|   | 1      | 50SE          | SONW   | 320-  | 00-00             | 70.71          | H                | LATH           | ì   |   |     |     |            |                |     |     |     |             |     |             |     |     | •   |            |
|   | ļ<br>! | SOSE          | SONE   | 5-0   | 00-0              | 5o FT          | 11               | 1.             |     |   |     |     | t          | ;              |     |     |     |             |     |             |     |     | ĺ   |            |
|   |        |               |        | İ     |                   |                |                  | •              |     |   |     |     |            |                |     |     |     |             |     |             |     |     | . ! | ! '        |
|   |        |               |        |       |                   |                |                  |                |     |   |     |     |            |                |     |     |     |             |     |             |     |     | i   | i          |
| 1 |        |               |        |       |                   |                |                  |                | •   |   |     |     |            |                |     |     |     |             |     |             |     |     |     |            |
|   |        | •             |        | İ     |                   |                |                  |                |     |   |     |     |            |                |     |     |     |             |     |             |     |     |     |            |

THE THE PARTY NAMED IN

| Can         | h Ca -      | T 7206 STA  | باد م  |            |        | 1.1.1.0-                                      |         |       |           | 1.        |
|-------------|-------------|-------------|--------|------------|--------|---|---------|-------|-----------|-----------|
| CAM         | PCROF       | 1 /20G SIA  | HE GRI | <b>D</b> S | 1 4 4  | 1-14-97                                       |         | Some  | Copy      | م، 10م    |
| SIA 1       | STA         | M. AZIMUTH  | HD     | Desc       |        |   | 1 1 1 1 |       |           |           |
| 72 Sw       | 73 MW       | 5-00-00     | SO FT  | 1          | 111    |   | 1 1     |       |           |           |
| 73Sw        | 73NE        | 50-00-00    | 70.71  | u "        |        |   |         |       |           |           |
| 733c)       | 73.SET      | 95-00-00    | 50 FT  | u Y        |        |   |         |       |           |           |
| 735W        | 74 NE       | 241- 43-30  | 38.28  | SET LATH,  |        |   |         |       |           |           |
|             |             |             |        |            |        |   |         |       | •         |           |
| 74 NE       | 74SE        | 185-00-00   | 50.FT  | SET LATH   | ·<br>- |   |         |       |           |           |
| 74 NE       | 74 SW       | 230-00-00   | 70.71  | " HOB      |        |   | . 1     | 1:41  | į i       | ; 1       |
| 74 NE       | 74NW        | 275-00-0    | 50 FT  | II LATH    |        |   | į ·     |       | i į ,     | 11:11     |
| 74 SE       | 75 NW       | 146-08-48   | 46.23  | SET LATH   |        |   |         |       | : !       |           |
| <del></del> |             |             |        |            |        | , , <u>, , , , , , , , , , , , , , , , , </u> |         |       | · :     : |           |
| 75NW        | 75NE        | 95-00-00    | SOFT   | SET LATH   |        |   |         |       | . !     i | : [ ] ; [ |
|             | 75 SE       | 140-00-00   | 70.71  | и п        |        |   |         | '     |           |           |
| 75 NW       | •           | 185-00-00   |        | h HUB      | :      |   |         | .     |           |           |
| <br>        | !<br>;<br>; | lz . oli aa |        |            | • •    | İ   |         |       |           | 1:        |
| 73.SE       | 76 NW       | 160-41-44   | 34.02  | SET LATH   | ı      |   |         | 1:    | 1 1 .     | . ! :     |
| 76NW        | 76NE        | 95-00-00    | So FT  | SETLATH    | •      |   |         |       | 117       |           |
| 7620        | 76 SE       | 140-00-00   | 70.71  | 15 b       | 1 !    | · · · · · · · · · · · · · · · · · · ·         |         | ! · · |           | 1         |
| 7626        | 76 SW       | 185-00-00   | So Fr  | " HUB      |        |   |         |       |           |           |
|             |             | <b>i</b>    | ŀ      |            |        | :   |         |       |           |           |

|                    |        |             | - C     |            | 1-14-97         |
|--------------------|--------|-------------|---------|------------|-----------------|
| CAMI               | CROFT  | 7206 STAK   | E G-RID | 2          | /-/             |
| STA.               | TO STA | M. AZIMOTH  | HD.     | DESC       |                 |
| <i>5</i> 35W       | 53NW   | 5-00-00     | 50 FT   | SET LATA   |                 |
| 53SW               | SINE   | 50-00-00    | 70.71   | n ti       |                 |
| 5354               | SISE   | 95-00-00    | 50 FT   | μ ħ        |                 |
| 53.5W              | 54NE   | 250-28-49   | 62.65   | SET LATH   |                 |
| 53 S N             | 56NW   | 159-09-20   | 71.11   | 11 17 ·    |                 |
| 56 NW              | 56NE   | 95-00-00    | 50 FT   | SET LATH   |                 |
| 56NW               | SG S€  | 140-00-00   | 70.71   | u #        |                 |
|                    | 56 SW  | 185-00-00   | So Fr   | 11 Hos     |                 |
| 56 <del>5</del> 00 | 55 NE  | -241-58-34- | 47.71-  | SET LATH   | 7206 Gad Z. CR5 |
| <i>5</i> 65w       | 55 N € | 288-30-00   | 63,20   | SET LATH   | NEW SSNE = 5045 |
| SSNE               | SSSE   | 185-00-00   | So FT   | SET LATH   |                 |
| 5S NE              | 55 SW  | 230-00-00   | 70.71   | סטון יי    |                 |
| SZNE               | 55 NW  | 275-00-00   | 50 FT   | 11 LATH    | 1               |
| 54 NE              | SYSE   | 185-00-00   | 50 FT   | SET LATH . |                 |
| SUNE               | SUSW   | 230-00-00   | 70.71   | n AUB      |                 |
| 54NE               | SHNW   |             | SOFT    | " LATH     |                 |
|                    |        |             |         |            |                 |
| À                  |        |             | 1       | <u> </u>   |                 |

SAME CONDITIONS

| 7.        |              |          | 1 1     | ı              | İ     | 1     |          |       |      |         |                |  |         |                |       |          |           |
|-----------|--------------|----------|---------|----------------|-------|-------|----------|-------|------|---------|----------------|--|---------|----------------|-------|----------|-----------|
|           | Camp         | CROF     | 7206    | STAK           | E Gen | DS .  | į        | 111   | /-/s | -97<br> | ]              | <u>;                                    </u> | ۔ ا     |                | arb)  | ا کے ا   | <i> -</i> |
|           | STA 7        | STA      | M. AZI  | MUT H          | ИD    | Desc  | <u>.</u> |       |      |         |                | : .  |         | l i !          | ARD C | i '      |           |
|           | 202SW        | 202NW    | 5-00    | · 00           | 50 FT | SET   | 477)     |       |      |         |                | : [  | ريانې   | ס דע           | 613   | 74       | :         |
|           | 202501       | ZOZNE    | 50-00-  | 00             | 70.71 | 1/    | 11       |       |      |         | i i            | ,  | i '     | : i            | 200   | 11/1/1   | 1 1       |
| 1         | 202 Su       | 202SE    | 95-00   | - <i>o</i> o ] | SOFT  | 1/    | 11       |       |      |         |                |  | 1 _ 1 1 | : 1 1          | 40/4/ | i I I    |           |
|           |              |          |         | _ ]            |       |       | į        |       |      |         |                | 1 1  |         | ! <b>'</b>   [ |       |          |           |
| ∭,        | 201 SW       | 201 NW   | 5-0-    | eo             | 50 FT | SET   | ATH      |       |      |         |                |  |         |                |       |          |           |
|           |              | 201 NE   | t I     |                | 70.71 | 4     | · F      |       |      |         |                |  |         |                |       | <u> </u> |           |
|           |              | 20150    | 95-c    |                | 50 FT | u ,   | u        |       |      |         |                |  |         |                |       |          |           |
|           | -010.0       |          |         |                | 3011  |       | .        |       |      |         | 1   1          | +   -  |         |                |       |          |           |
|           | 201 SE       | 204415   | 102-28- | /              | 99,85 | SET   | ~#       |       |      |         |                |  |         | .              |       |          | 1         |
| Ni        | (2), 02      | 1 20 1/2 | 7-2-48  | ,              | 11103 | Ou, Q | 1 i      | 1 1 1 |      |         |                |  |         |                |       |          | ! !       |
|           | 3 mg 1 s 900 | 2        | 185-00  | -(1/2          | ح. ح- | C (   | / a == 1 |       |      |         |                | :  | į i     | , i            | -     | .   }    |           |
|           | _*           | 2045E    | i       | Į              | 50 FT | SET 4 |          |       |      |         | 1   1          |  |         |                |       | 1        |           |
|           | •            | 20450    | 7       | i              | 70.71 | n F   | - !      |       |      |         | : 1            |  |         |                | :     |          |           |
| H         | COU NE       | 204 NW   | 275-00  | -00            | 50 FT | " 4   | AT/A     |       |      |         |                |  |         |                | 11    |          |           |
|           |              | _        |         | }              |       |       |          | }     |      |         |                |  | i I     |                |       |          |           |
| Į.        | 202 SE       | 503 NM   | 140-48  | 7-25           | 50.21 | SET   | ATA      |       |      |         |                |  |         |                |       |          |           |
| :<br>   : |              |          |         | -              |       |       |          |       |      |         |                |  |         |                | !     | 1   1    |           |
|           | 203NW        | 203 NE   | 95-00-  | -00            | 50 FT | 2ET 4 | ATH      |       |      |         |                |  |         |                |       | ]. ] ]   |           |
| 11        | SOSNW        | 203 SE   | 140-00  | -00            | 70.71 | 10    | П        | 111   |      |         | : , ;          |  |         | ' ; ;          |       |          |           |
|           | 203NW        | 20356    | 185-do. | -ou            | 50 Fr | H j   | HOB +    |       |      |         |                |  |         |                | i   : |          | ; ;       |
| Ψ<br>4    |              |          |         | į              | 1     |       | •        | •     |      |         |                |  | il      |                |       | 11:      | ! '       |
| ì         | 2055W        | 205 NW   | 5-00-   | 00             | 50 FT | SET L | ATH ;    |       |      |         | ; ; ;<br>; ; ; | 1  |         |                |       |          | Ι.        |
| į         | ૧૦૬ ક્ષ      | 205 NE   | 50-00   | -00            | 70.71 | W     | ų        |       |      |         |                |  |         |                |       |          |           |
| į.        | Sossw        | 205SE    | 95-00   |                | So Fr | H     | 11       |       |      |         |                | i  |         | .              |       | !  <br>  | ; ;       |
| W         | <u> </u>     | -        |         |                |       |       |          |       |      | •       |                |  | •       |                |       |          |           |
| 3         | <b>M</b> /   |          | ĺ       | ļ              |       |       |          |       |      |         |                | Ī  |         |                |       |          |           |

The second secon

|         |         |               |        |         | ) >         | 1                      |         |             |     |            |       |          |       |                 |            |     |              | 1_       | 46 | _ |
|---------|---------|---------------|--------|---------|-------------|------------------------|---------|-------------|-----|------------|-------|----------|-------|-----------------|------------|-----|--------------|----------|----|---|
| Cam     | P CROFT | 7206          | STAKE  | GRID    | s           | ;                      | 1 [ ] [ | . <b>/-</b> | 15- | 97         | i I i | i į      | S^    | ₹• <b>•</b> ••₹ | <b>.</b> ( | ay. | זיי <b>ק</b> |          |    |   |
| ji San  | TO STA  | Mer A         | ZIMUTH | 110     | Desc        | •                      |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| •       | j       |               |        | _       |             |                        |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| י בסטאי | 183S€   | 350-2         | 2-33   | 103.33  | SET ZA      | TH ·                   |         |             |     | !!         |       |          | ┨     |                 |            |     |              |          |    |   |
| 205 SE  | 208 NAJ | 137-2         | .1-27  | 46.01   | SETL        | <u>и</u> гн. :         | CHANG   | CING        | 208 | NAU        | Ta    | zos      | l I i | 720<br>  C      | - 1 1      | i   | 1 1          | <u>i</u> | 16 |   |
|         |         |               |        |         |             |                        |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| 208m    | 9 508NE | 95-0          | 0-00   | 50 ET   | SET LA      | ITH                    |         |             |     |            | !     |          |       |                 |            |     |              |          |    |   |
| 208 Nu  | 2085€   | 140=          | 00-00  | 70.71   | , <b>și</b> | Ų.                     |         |             |     |            | ;     |          |       |                 |            |     |              |          |    |   |
| 20844   | 2082N   | <b>18</b> 5-9 | 0-00   | SOFT    | # #U        | <i>I</i> B -           |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
|         |         |               |        |         |             |                        |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| 208NE   | 2085€   | 185-d         | 00-00  | 50 FT . | SET LA      | ATH .                  |         |             |     |            |       | <u>i</u> |       |                 |            |     |              |          |    |   |
| 208 NE  | 208 54  | 230-4         | x0-00  | 70.71   | 11 110      | $^{\prime}\mathcal{B}$ |         | :           |     |            | ij    | : 1      |       |                 |            |     |              |          |    |   |
| 208 NI  | 208N4   | 275-          | 30-00  | SOFT    | 11 /1       | HTI                    |         |             |     |            |       |          |       |                 | :          |     |              |          |    |   |
|         |         |               |        |         |             |                        |         |             |     |            |       | 1 .      |       |                 |            |     |              |          |    |   |
| 206 SW  | 206 NW  | 5-00          | -00    | 50 FT   | SET LAT     | г. <del>Н</del>        |         |             |     |            |       |          |       |                 |            |     | jj           |          |    |   |
| 11      | 206 NE  | 50-00         | !      | 70.71   | 21, 11      |                        |         |             |     |            |       |          |       |                 |            |     |              |          |    | ĺ |
| 11      | 206 SE  | 95-00         | -00    | SO FT   | પ મ         |                        |         |             | 111 |            |       |          |       |                 |            |     |              |          |    |   |
|         |         |               |        |         |             |                        |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| 206 SE  | 207 NW  | 136-0         | 3-17   | 46.11   | SETLA       | ITH                    |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
|         |         | _             |        |         |             |                        |         |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| 207N4   | 207NE   | 95-0          | 5-00   | 50 FT   | SET 4       | <b>9</b> ТН            |         |             |     |            |       | 1   '    |       |                 |            |     |              |          |    |   |
| ļ.      | 207SE   | 140-0         |        | 70.71   |             | ŋ                      |         |             |     |            |       |          |       |                 | 11         |     |              |          |    |   |
| · _     | 2075W   | 185-0         | 1      | 50 FT.  | 11 H        | ווט                    |         |             |     | 1 1        |       | 1 1      |       |                 |            | ÌÌ  |              |          |    | İ |
| ·<br>·  |         |               |        | ĺ       |             | -                      |         |             |     | : :<br>: : |       |          |       |                 |            |     |              |          |    |   |
| 1833E   | 18350   | 275-0         | 0-00   | 50FT    | SET H       | กด                     |         |             |     | ; ;        | .     |          |       |                 | '          | . ! | ! '          |          |    |   |
|         | 183 NW  | 320-6         | 1      | 70.71   | " LA        |                        | •       |             |     |            |       |          |       |                 |            |     |              |          |    |   |
| 1835E   | 183 NE  | 5 - a         |        | SUFT    | u h         |                        |         |             |     |            |       |          | ı     |                 |            |     |              |          |    | _ |

STREET, STREET

|  |  |          |         | 1-47 |
|--|--|----------|---------|------|
|  |  | Camp Cro | FT 7206 |      |
|  |  |          |         |      |
|  |  |          |         |      |

|      | -      |                |         | <u> </u>       |       |                  |            |        |                         |               |     |          |     |                                       |       |             |            |          |      |               | ,         |        | 7   |
|------|--------|----------------|---------|----------------|-------|------------------|------------|--------|-------------------------|---------------|-----|----------|-----|---------------------------------------|-------|-------------|------------|----------|------|---------------|-----------|--------|-----|
| 4    | Camp   | CROFT          | 7206    | STAKE          | 5 GRW | s                | i<br>. , , | : i    | 1-7                     | <b>%</b> -'   | 77  | i '      | ; ; |                                       | S     | m E         | ; <b>Ç</b> | au.      | וויס | Γ <b>′</b> Ω/ | -ر<br>کرا | 49<br> | 1 1 |
|      |        |                | !       |                |       | 1                |            | :<br>: | ! !                     |               |     | 1        |     |                                       |       |             |            |          |      |               |           |        |     |
|      | STA T  | 5 STA          | MAG. AZ | imuy H         | ΗĐ    | DESC             |            |        |                         | $_{1}$ $^{1}$ | 1   |          |     | 1 7                                   |       |             |            | 1        | İ    |               |           |        |     |
|      | 230 N€ | 230 SE         | 185-0   | 0-00           | 50 FT | 1 -              |            |        | 1                       |               |     |          |     | ;                                     | -     |             |            |          |      |               |           |        |     |
|      | 230NE  | <i>2305W</i>   | 230-    | 00-00          | 70.71 | " HUE            |            | . 1    | ;                       | i             |     |          |     |                                       |       |             |            |          |      |               |           |        |     |
|      | SOUCE  | 230 NW         | 275     | 00-00          | SOFT  | " ZATH           |            | .      | !                       |               |     | ;<br>; ; |     |                                       |       |             |            |          |      |               |           |        |     |
|      | 230SE  | 231 Nu         | 104-    | 51-67          | 23.35 | SET LATH         |            |        |                         |               |     |          |     |                                       |       | -           |            |          |      |               |           |        |     |
|      | 231NW  | 231 NE         | 95- 4   | 0-00           | 50 FΓ | SET LATH         |            |        | 1                       |               |     |          |     |                                       | .     | 1           |            |          |      |               |           |        |     |
|      | 231NW  | 231 SE         | 140-0   | 00-00          | 70.71 | it it            |            | ! :    | .                       |               | '   |          | 1 1 | i ;                                   |       | -           |            | ! !      | !    |               | <br>      |        |     |
|      | 23/NW  | 2315w          | 185-0   | 0-00           | SOFT  | " HoB            |            | . ·    |                         | .             |     |          |     |                                       | .   : |             | : :        | .<br>  : | 1 -  |               | t         |        |     |
|      | SZINE  | <b>2</b> 32.5W | 67-     | p6- 10         | 19.24 | SET HOR          |            |        |                         |               |     |          |     | : : : : : : : : : : : : : : : : : : : |       |             |            |          |      |               | :         |        |     |
|      | 232 Sw | BUZZZ          | 5-∞     | -00            | SO FT | SET LATH         |            |        | $\downarrow \downarrow$ | -             |     |          |     |                                       |       |             | i          |          |      |               |           |        |     |
| Ž    | 2325ω  | ZZZNE          | 50-00   | - 00           | 70.71 | n 4,             |            |        |                         |               | 1   | !        |     | !                                     |       |             |            |          |      |               |           |        |     |
|      | 2325W  | 232 SE         | 95-0    | )-0G           | So FT | и и              |            |        |                         |               |     |          |     |                                       |       | •           |            |          | 3    |               |           |        |     |
|      |        |                |         |                |       |                  |            |        |                         | :             | 1 ! |          | .   |                                       |       |             |            |          | ,    |               |           |        |     |
|      | 225.2m | 1              | 1       |                | 50 FT | SET LATH         |            |        | ·                       |               |     |          | .   | i {                                   |       | :           |            |          | ļ    |               |           |        |     |
|      | 22536  | - 1            |         | i              | 70.71 | 11 14 1<br>12 14 |            |        |                         | 1 !           |     |          |     |                                       |       | ;<br>;<br>; | :          |          |      |               | !  <br>!  | :      |     |
|      | 5522m  | 225 <i>SE</i>  | 75~0    | DOO            | SOFT  | и 4              | . :        |        | i                       |               | ' ! | 1 .      | :   |                                       |       | !.          |            |          |      |               | : :       | 1      |     |
|      | 225SW  | 22 <b>6NE</b>  | 234.2   | .3-55          | 34,88 | SET LATH         |            |        |                         | : :           |     |          | :   | !  <br>. !                            |       |             |            |          |      |               |           |        |     |
| 1    | SZENE  | 226SE          | 185-    | 00-0x          | So FT | SET LATH         |            |        | :                       | :<br>1        |     | •        | , 1 |                                       | ļi    |             | i          |          | :    |               |           | •      |     |
|      | 226NE  |                | 230-    |                | 70:71 | n HUB            |            |        |                         |               |     |          |     |                                       |       |             |            |          |      |               |           |        |     |
| 6.71 | CZGNE  | 226NE          | 275-1   | ∞- <i>∞</i> -∞ | SOFT! | 11 LATH          | i          |        |                         |               |     |          |     |                                       | <br>  |             |            |          |      |               |           |        | 4   |

| 2 2 2 | CAMP CROP<br>STA TO STA<br>2275W 227NE<br>2275W 227NE<br>2285W 228NW<br>2285W 228NE<br>2285W 228SE | MAG. AZIMUTH<br>5-00-00<br>50-00-00<br>95-00-00<br>5-00-00<br>50-00-00 | H.D<br>50 FT<br>70.71<br>50 FT | DESC<br>SET LATA | 1-16-9 |  | 1-50<br>1710AS |
|-------|--|--|--------------------------------|------------------|--------|--|----------------|

|        |                     |               | <u> </u> | [     |                 | 1          |                   | 1              | 1-52        |
|--------|---------------------|---------------|----------|-------|-----------------|------------|-------------------|----------------|-------------|
|        | Cami                | CROF          | 7200     | STAK  | E GRI           | 20         | 1-17-97           |                | 1~3C        |
|        | _                   | <b> </b><br>  | . [      |       | _               |            |                   | C. STODERARD A | <b>X</b>    |
|        |                     | 1             | MAG. AZI |       | ' HD            | pex        | NOTE SUBSTRACT 59 | MARK HOLLEY 9  | <b>p</b>    |
|        | 2354                | 22.SE         | 304-10   | 0-03  | 49,24           | SET LATH   | FOR TRUE ASIMUTH  | Sur 6/31       | 1 1 1 1 1 1 |
|        | 22.5E               | 225W          | 275-00   |       | ~ . <del></del> | Com Idea   | CALCULATIONS!     | BI-Pob, 2001   |             |
|        |                     | 22NW.         |          | 1     |                 | SET HUB    |                   | CLEAR BREEZY,  | 19 - 30 7   |
|        |                     |               |          | . [   | 70.71           | 4 4174     |                   |                |             |
|        | 44.2E               | ZZNE          | 5-00-    | 00    | SOFT            | Li ii      |                   |                |             |
|        | (S <sub>0</sub> 33) |               |          |       |                 |            | 7206GEDZ.CES      | ]              |             |
|        | 12/NW               | 142NW         | 73 - 40  | -00   | 71,35           | SOT LATH . | 142 NW NEW = 5047 |                |             |
|        |                     |               | _        |       |                 |            |                   |                |             |
|        | 145 NW              |               | 1        |       | 50 FT           | Set ath    |                   |                |             |
|        | MASH                | 142 SE        | 140-00   | -00   | 70,71           | W III      |                   |                |             |
|        | 14500               | 1425W         | 185-00   | -00   | SUFT            | 11 HUB     |                   |                |             |
|        | (5636)              |               |          |       |                 |            | 72060EDZ CEL      |                |             |
|        | 133 NW              | 136 NW        | 46-\$0   | -00 h | 121.50'         | SET LATH . | 136 NW NEW = 5048 |                |             |
|        |                     |               | -        |       |                 |            |                   |                |             |
|        | 133NW               | 135NW         | 118-00   | -00   | 109.601         | SET LATH   | 135 NW NEW + 5049 |                |             |
|        |                     | į             |          |       |                 |            |                   |                |             |
|        | 133 NW              | 134NE         | 153-30   | -00   | 101.00          | SET LATH   | 134NE WEW = 5050  |                |             |
|        |                     |               |          |       |                 |            |                   |                |             |
| 1      | BYNE                | 1345 <u>E</u> | 185-00   | -00   | 50 FT           | SET LAT-H  |                   |                |             |
|        | 134 NE              | WENCH         | 230-00   | ,-ro  | 70.71           | " Ilub     |                   |                |             |
| †      | 134 NE              | 134 NE        | 275-00   | 00-0  | SOFT            | " LATH     |                   |                |             |
| i<br>i |                     |               |          | _     | Ī               | ••         |                   |                |             |
| '      |                     |               |          |       |                 |            |                   |                |             |
| liil.  | İ                   |               | 1        | ļ     | ļ               | •••        |                   |                | : .'        |
| W.     |                     |               |          |       |                 |            |                   |                | 4           |

|          | ا ہ      | I      |        |        |        |          |                                       | [            | 1-53 |
|----------|----------|--------|--------|--------|--------|----------|---------------------------------------|--------------|------|
| 1        | CAM      | P CRO  | FF 72  | 06 ST  | ake G  | 21105    | , , , , , , , , , , , , , , , , , , , | SAME COUDITI | 04/5 |
|          |          |        |        |        |        | ·        | NOTE: SUBSTRACT 50                    |              |      |
| į<br>I   | STA TO   | STA    | MAG AZ | LIMUTH | HD     | Desc     | FOR TRUE AZIMUTH                      |              |      |
|          | 135NW    | 135 NG | 95-00  | -00    | SO FT  | SET LATH | CALCULATIONS.                         |              | -    |
|          | 135NW    | 135 SE | 140-0  | 0-00   | 17.07  | n n      |                                       |              |      |
| •        | 135NW    | 1355W  | 185-0  | 0-00   | 50FT   | " HUB    |                                       |              |      |
| <br>     |          |        |        | į      |        |          |                                       |              |      |
| 1        | 136NW    | 136 NE | 95-a   | 0-00   | 50 FT  | SET LATH |                                       |              |      |
| 1        | 136 NW   |        | 140-00 | 00-0   | 70.71  | ts tt    |                                       |              |      |
|          | 136 NW   |        | 185-0  | - as   | 50 FT  | u Huz    |                                       |              |      |
| ĺ        | (5037)   | l      |        | ĺ      |        |          | 17206 Geo 2, CR5                      |              |      |
|          | 129 NW   | 132 NW | 45-0   | 0 - OO | 127,20 | SET LATH | 132 NU NEW = 5051                     |              |      |
| <u>.</u> |          |        |        |        |        |          |                                       |              |      |
|          | 129 NW   | 131 NE | 197-   | xy-e∪  | 81.10' | SET LATH | 131 NE NEW = 5082                     |              |      |
|          | <b>.</b> |        | ·      |        |        | <u> </u> |                                       |              |      |
|          | 129 NW   | BONE   | 230-   | 20-05  | 135,00 | SET LATH | 130 NE NEW - 5053                     |              |      |
|          |          | , , -  |        |        |        |          |                                       |              |      |
|          | 132NW    | 132NE  | 95-00  | 5-00   | 50 FT. | SET LATH |                                       |              |      |
| l '      |          | 132 SE | 140-00 | 5-00   | 70.71  | h" "     |                                       |              |      |
| I        | 132NW    | ļ.     | 185-0  | 0-00   | So FT: | न मण्ड   |                                       |              |      |
|          |          |        |        |        |        |          |                                       |              |      |
|          | 131 NE   | 131 S€ | 185-   | 00-00  | SOFT   | SET LATH |                                       |              |      |
| ľ        | 131 NE   | 131 Sw | 230-0  | 0-00   | 70.71  | " HUB    |                                       |              |      |
|          |          | 131 NW | 275-a  |        | So FT  | " LATH   |                                       |              |      |
|          | j        |        | ]      | j      |        |          |                                       |              |      |
| #<br>    | 130NE    | 130SE  | 185-00 | -00    | 50 FT  | SET LATH |                                       |              |      |
| Ŵ.       | 130 NE   | 120SW  | 230-0  | ਰ-ੴ    | 70.71  | " HUB    |                                       |              |      |
|          | 130NE    | 13000  | 275-01 | 60-0   | SO FT  | 1 CATH   |                                       | 1            |      |

### APPENDIX C SITE CHARACTERIZATION DATA

# APPENDIX C SITE CHARACTERIZATION DATA

This appendix includes a list of the items excavated from OOU6 at the former CCATF including detailed site characterization data and the EM-61 geophysical investigation data as manually recorded in the field. The list contains the anomaly identification number and description of each recovered item. The first and second digits of the anomaly identification number identify the anomaly as coming from OOU6, CCATF. The third, fourth, and fifth digits of the anomaly identification number identify the polygon (grid) number at the site where the anomaly was located. The final three digits of the anomaly identification number are the unique identifier numbers of the individual anomaly. To allow for identification of objects, an object ID column was incorporated into this database. The object ID is the last two digits added to the anomaly ID. A summary of OE items recovered and other investigation attributes (for example, depth, weight, and the date these items were rendered safe) is provided at the beginning of this appendix.

## CCATF OOU6 OE INVESTIGATION/ENGINEERING DESIGN LIST OF POTENTIALLY HAZARDOUS OE ITEMS\*

|        | ITEM  | GRID | GIS        | ANOMALY | DATE OF                   | DEPTH                   |         |
|--------|-------|------|------------|---------|---------------------------|-------------------------|---------|
| SECTOR | ID    | ID   | <u>ID</u>  | #       | DEMOLITION                | FOUND                   | WEIGHT  |
| 2      | 105BE | 48   | 9904801001 | 10      | 2/27/97                   | 6" tail/24" nose        | 25 lbs. |
| 2      | 105BE | 61   | 9906100602 | 6       | 2/27/97                   | 8", horizontal          | 25 lbs. |
| 2      | 105BE | 66   | 9906601001 | 10      | 2 <i>1</i> 27/97          | 12", horizontal         | 25 lbs. |
| 2      | 105BE | 81   | 9908101101 | 11      | 2/27/97                   | 6", horizontal          | 25 lbs. |
| 2      | 105BE | 83   | 9908300101 | 1       | 2 <i>1</i> 27 <i>1</i> 97 | 4", horizontal          | 25 lbs. |
| 2      | 105BE | 83   | 9908300502 | 5       | 2/27/97                   | 4" tail/nose at surface | 25 lbs. |
| 2      | 105BE | 85   | 9908500302 | 3       | 2/27/97                   | 3", horizontal          | 25 lbs. |
| 2      | 105BE | 110  | 9911001002 | 10      | 2/27/97                   | 6", horizontal          | 25 lbs. |
| 4      | 105HE | 131  | 9913100201 | 2       | 2/18/97                   | 18" tail/6" nose        | 25 lbs. |
| 4      | 105BE | 133  | 9913301101 | 11      | 2/27/97                   | 24", horizontal         | 25 lbs. |
| 4      | 105BE | 137  | 9913700101 | 1       | 2/27/97                   | 24", horizontal         | 25 lbs. |
| 4      | 105BE | 155  | 9915500302 | 3       | 2 <i>1</i> 27 <i>1</i> 97 | 4", horizontal          | 25 lbs. |
| 4      | 105BE | 166  | 9916600401 | 4       | 2/27/97                   | 24", horizontal         | 25 lbs. |
| 4      | 105BE | 174  | 9917400101 | 1       | 2/27/97                   | 24", horizontal         | 25 lbs. |
| 2      | 105BE | 205  | 9920500701 | 7       | 2/27/97                   | 4", horizontal          | 25 lbs. |

<sup>•</sup> Sorted by sector, ordnance items, and depth.

105BE = 105mm illumination/smoke round with mechanical timer (inert)

105HE = 105mm High Exposive round with point detonating fuze (live)

#### **SECTORS**

| SECTOR CODE | SECTOR NAME                        |
|-------------|------------------------------------|
| 1           | Roads and Site Operations Building |
| 2           | Pine Farm                          |
| 3           | Landfill and Composting Areas      |
| 4           | Pond                               |
| 5           | Wetlands/Streams                   |
| 6           | Natural Brush/Forest               |
| 7           | EE/CA Grid 87                      |
| 8           | Uninvestigated Area                |

|                      | _  |                      |              |             |                |                 |               | _                 | DEPTH  |                  | WEIGHT    | EXPLOSIVE     | ORINAME           |
|----------------------|--|----------------------|--------------|-------------|----------------|-----------------|---------------|-------------------|--|------------------|-----------|---------------|-------------------|
|                      |  |                      | on ICCT ID   | EASTING     | MORTHING       | DESCRIPTION     | COMMENTS      | DEPTH             | UNITS  | WEIGHT           |           | EXPLUSIVE     |                   |
| ECTORS NAME          | GRID ID  | ANOMALY ID           |              |             |                | <del></del>     |               |                   |  | 0.5              |           |               | Fragment          |
| inefarm              | 62   | 99062014             | 9906201401   | <u> </u>    | <b></b> _      |                 |               |                   |  |                  | ibs       | <del></del> - | Fragment          |
| netarm               | 61   | 99061001             | 9906100101   | l           | <u> </u>       |                 |               |                   | <u> </u>   |                  | 1bs       |               | Fragment          |
| inefami              | 61   | 99061003             | 9906100301   | <u> </u>    |                | <del> </del>    |               |                   |  | 0.25             |           |               | Fragment          |
| inefarm              | 61   | 99061005             |              |             | l              |                 |               |                   |  | 0.25             |           | <del></del>   | Fragment Ordnance |
|                      | 81   | 99061006             | 8906100601   | I[          | <u> </u>       |                 | <del></del>   | 1                 | 3 in   |                  | lbs       |               |                   |
| inelam<br>inelam     | 81   | 99061000             | 9906100602   | 1764696' 3  | 1112838 3      | 105 mm BE/Inert |               |                   |  |                  | lbs       |               | Fragment          |
|                      | 61   | 9906100              | 7 990610070  | 1 <u> </u>  | <u> </u>       | <del></del>     |               |                   | T  |                  | ibs       |               | Fragment          |
| inefarm              | 64   | 9906400              | 3 990840030  | 1           | <u> </u>       |                 |               |                   |  |                  | 5 lbs     |               | Fragment          |
| inefarm              | 84   | 9906400              |              |             | <u> </u>       |                 |               |                   |  | 0.2              | 5 lbs     |               | Fragment          |
| inefarm              | 64   |                      | 6 990840060  | 1           | <u></u>        | <del></del>     |               |                   | T  | 0.2              | 5 fbs     |               | Fragment          |
| inefarm              | 84   | 9906400              |              |             | <u> </u>       |                 |               |                   |  |                  | 5 Rbs     |               | Fragment          |
| Pinefarm             | 64   |                      | 0 990640100  | 1           | <b>_</b>       | <del></del>     | <del></del>   |                   |  |                  | 5 libs    | <del></del>   | Fragment          |
| Pinelarm             | 64   | 9906401              | 1 990640110  | 1           | <del></del>    | <del></del>     |               |                   |  |                  | 5 libs    |               | Fragment          |
| inefarm              | 64   | 9906401              | 2 990640120  | 1           | <del>.  </del> | <del></del>     |               |                   |  |                  | 5 lbs     |               | Fragment          |
| Pinefarm<br>Pinefarm | 31   | 9903100              | 990310030    | 11          |                | <del></del>     |               |                   |  |                  | 5 lbs     |               | Fragment          |
| Pinefarm             | 3  | 9903100              | 4 990310040  | III         | <del></del>    |                 | <del></del>   |                   |  |                  | 5 lbs     |               | Fragment          |
|                      | 1 3  | 9903100              | 6 990310060  | )1[         |                |                 | <del></del>   |                   |  |                  | 5 lbs     |               | Fragment          |
| Pinefarm             | + 3·   | 9903100              | 7 990310070  | )1\         |                |                 |               |                   |  |                  | 5 lbs     | _}            | Fragment          |
| Pinefarm             | - 3  | 9903100              | 890310080    | )1          |                |                 | <del>  </del> |                   |  |                  | 5 lbs     |               | Fragment          |
| Pinefarm             | <del>  3</del>                                   | 9903101              | 11 990310110 | 21          | <u> </u>       |                 |               |                   |  |                  | 5 lbs     |               | Fragment          |
| Pinefarm             | + 3  |                      | 12 990310120 | 01          |                |                 |               |                   |  | 0                | .5 lbs    |               | Fragment          |
| Pinefarm             |  | 990180               | 01 990180010 | D1          |                |                 |               |                   |  |                  | 1 lbs     |               | Fragment          |
| Natural BrustyForest |  |                      | 02 99018002  | 01          |                |                 |               |                   |  |                  | .5 lbs    |               | Fragment          |
| Natural Brush/Forest |  |                      | 01 99020001  | 01          | ·              |                 |               |                   |  | - 0              | .5 lbs    |               | Fragment          |
| Natural BrustyForest |  |                      | 02 99020002  | 01          |                |                 |               |                   |  |                  | .5 lbs    |               | Fragment          |
| Natural Brush/Forest |  |                      | 01 99027001  | 01          |                |                 |               |                   |  | <del>     </del> | 1,3 lbs   |               | Fragment          |
| Natural Brush/Forest |  |                      |              | 01          |                |                 |               |                   |  | (                | ).1 libs  |               | Fragment          |
| Natural Brush/Forest |  | 6 990260             | 01 99026001  | 01          |                |                 |               |                   |  |                  | ).3 lbs   |               | Fragment          |
| Natural Brush/Forest |  | 6 990260             |              |             |                |                 |               |                   |  | - (              | ).4 lbs   |               | Fragment          |
| Natural Brust/Forest |  | 6 990260             | 99026004     |             |                |                 |               |                   |  |                  | 5.5 lbs   |               | Fragment          |
| Natural Brush/Forest |  | 6 990260             | 05 99026005  | i01         |                |                 |               |                   |  |                  | 0.3 lbs   |               | Fragment          |
| Natural Brush/Forest |  | 6 990260             |              | 01          |                |                 |               |                   |  | 0                | .15 lbs   |               | Fragment          |
| Natural Brush/Fores  |  | 990140               | 001 99014001 |             |                |                 |               |                   |  | 0                | .15 lbs   |               | Fragment          |
| Natural Brush/Fores  |  | 990140               | 99014001     | 02          |                |                 |               |                   | <del></del>                                      | 0                | .15 lbs   |               | Fragment          |
| Natural Brush/Fores  | <del></del>                                      | 14 990140            | 002 99014002 | 201         |                |                 |               | <del></del>       | $\neg$   | - 0              | .15 lbs   |               | Fragment          |
| Natural BrustvFores  |  | 14 99014             | 002 9901400  | 202         |                |                 |               | <del>-  -</del> - |  |                  | .15 lbs   |               | Fragment          |
| Natural Brush/Fores  |  | 14 99014             | 004 9901400  | 401         |                |                 |               | <del></del>       |  | 1 0              | .15 lbs   |               | Fragment          |
| Natural Brush/Fores  |  | 14 99014             | 005 9901400  | 501         |                |                 |               |                   | $\neg$   |                  | .15 lbs   |               | Fragment          |
| Natural Brush/Fores  |  | 14 99014             | 005 9901400  | 502         |                |                 |               | <del>-  -</del>   | <del>                                     </del> |                  | ),15 lbs  |               | Fragmen           |
| Natural Brush/Fores  | <del>``                                   </del> |                      | 006 9901400  | 601         |                |                 |               | <del></del>       | -  |                  | ),15 libs |               | Fragmen           |
| Natural Brush/Fores  | <del></del>                                      | 14 99014<br>14 99014 | 006 9901400  | 602         |                |                 |               |                   |  | -                | ).15 lbs  |               | Fragmen           |
| Natural Brush/Fores  |  |                      | 006 9901400  | 603         |                |                 |               | <del></del>       | <del></del>                                      |                  | ) 15 lbs  |               | Fragmen           |
| Natural Brush/Fores  | <del></del>                                      |                      | 006 9901400  | 604         |                |                 |               |                   | -  | <del></del>      | 0.5 lbs   |               | Fragmen           |
| Natural Brush/Fores  |  |                      |              | 701         |                |                 |               |                   | <del>-   -</del> -                               | <del></del> -    | 0.25 lbs  |               | Fragmen           |
| Pinetarm             |  | 951                  |              |             |                |                 |               |                   |  |                  |           |               | Ī                 |
| Pinefarm             |  | <u> </u>             |              | <del></del> |                |                 |               | <del></del>       | +  |                  | 0.5 lbs   |               | Fragmen           |
| Pinefarm             |  | 85 99065             | 5011 9908501 | ini         |                |                 |               |                   | <del></del>                                      | -t               | 0.25 lbs  |               | Fragmen           |
| Pinefarm             | 1  | 85 99085             | 5011 9906501 |             |                |                 |               |                   |  |                  |           |               |                   |

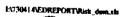
| BECTORS NAME       |          |   |            |   | NORTHING   | DESCRIPTION                                      | COMMENTS       | DEPTH  | DEPTH         | WEIGHT      | WEIGHT           | EVEL COL :-                                      |          |
|--------------------|----------|---|------------|---|--|--|----------------|--|---------------|-------------|------------------|--|----------|
| inefarm            | 85       |   | 990850130  | 1   |  | T  |                |  | UNITS         |             |                  | EXPLOSIVE  | OBJ NAM  |
| inefarm            | 05       |   | 990850150  | 1   |  | <del></del>                                      | <del>-  </del> | <del></del>                                      | <u> </u>      | 0.25        |                  |  | Fragment |
| Pinefarm           | 85       |   |            | 1   |  | <del> </del>                                     |                |  | <u> </u>      | 0.25        |                  |  | Fragment |
| inefarm            | 85       |   | 990650190  | 1   |  | <del> </del>                                     | <del></del>    |  |               | 0.25        |                  |  | Fragment |
| Inefarm            | 88       |   |            |   |  | <del></del>                                      |                |  |               | 0.25        | \$5<br>€         |  | Fragment |
| inetarm            | 88       | *************************************** |            | 1   | <del>                                     </del> | <del>                                     </del> | <del></del>    |  |               |             |                  |  |          |
| inefarm            | 88       |   |            |   |  |  |                |  |               | 0.5         | lbs              |  | Fragment |
| inefarm            | 88       |   |            |   |  | <del></del>                                      | <del>  </del>  |  |               |             |                  | <u> </u>   |          |
| inefarm            | 88       | 99088007                                |            |   |  | <del></del>                                      | <del></del>    |  |               | 1.          |                  |  |          |
| inelarm            | 88       | 99068009                                | 9908800901 | <u> </u>  | <del></del>                                      | <del></del>                                      |                |  |               | · -         |                  | <del>                                     </del> |          |
| hefarm             | 87       | 99087001                                | 9908700101 | <del>                                     </del>  |  | <del></del>                                      | <del></del>    |  |               | 0.25        | RD8              | <del>                                     </del> | Fragment |
| inefarm            | 87       | 99087002                                | 9908700201 |   | <del></del>                                      | f  |                |  |               | 0.5         | bs               |  | Fragment |
| inetarm            | 87       | 99087004                                |            |   | ·  | <del></del>                                      |                |  |               | 0.25        |                  |  |          |
| nefarm             | 87       |   | 9908700501 | <del> </del>                                      | <del> </del>                                     |  |                |  |               | 0.25        |                  |  | Fragment |
| inefarm            | 87       | 99087006                                | 9908700601 | <del></del>                                       |  |  |                |  |               | 0.25        |                  |  | Fragment |
| nefarm             | 86       | 99058003                                | 9908600301 | <del>                                     </del>  |  |  |                |  |               | 0.5         |                  |  | Fragment |
| nefarm             | 86       | 99086004                                |            | <del>! -  </del>                                  |  |  |                |  |               | 0.25        |                  |  | Fragment |
| nefam              | 86       |   |            | <del>  -                                   </del> | <u> </u>   |  |                | _  |               | 0.25        |                  |  | Fragment |
| nefarm             | 86       | 99085008                                |            | <del>├  </del>                                    |  |  |                | _  |               | 0.25        |                  |  | Fregment |
| nefarm             | 86       |   | 9908601001 | ├──-  |  |  |                |  |               | 2.5         |                  |  | Fragment |
| nefarm             | 62       | 99062001                                |            | <del>                                     </del>  |  |  |                |  |               | 0.25        |                  |  | Fragment |
| nefarm             | 62       |   |            | <del>                                     </del>  |  | Small frag around excav.                         |                |  |               | _           |                  |  | ragment  |
| nefarm             | 62       | 99062004                                |            | <b>├</b>  |  | Small frag around excay.                         |                | <del>-                                    </del> |               |             | bs               |  | Fragment |
| nefarm             | 62       | 99062005                                | 9908200401 |   |  | Small frag around excav.                         |                |  |               |             | bs               |  | Fragment |
| nefarm             | 62       |   | 9908200501 |   |  | Small frag around excav.                         |                | <del></del>                                      |               | 0.5         |                  |  | ragment  |
| nefarm             | 62       | 99062006                                | 9906200601 |   |  | Small frag around excav.                         |                | <del>-   -  </del>                               |               | 0.25        |                  |  | ragment  |
| refarm             | 62       |   | 9906200701 |   |  |  | <del></del>    | <del>-   -  </del>                               |               | 0.5         |                  |  | ragment  |
| refarm             |          | 99062009                                | 9906200901 |   |  | Small frag around excay.                         | <del></del>    | <del>-   -  </del>                               |               | 0.25        |                  |  | ragment  |
| nefarm             | 62<br>62 |   | 9906201001 |   |  | Small frag around excav.                         |                |  |               | 2           |                  |  | ragment  |
| refarm             |          |   | 9906201101 |   |  |  | <del></del> -  | <del></del>                                      |               | 1           |                  | F  | ragment  |
| efarm              | 62       |   | 9908201201 |   |  |  |                | <del></del>                                      |               | 0.5         |                  | F  | regment  |
| refarm             | 62       | 99062013                                |            |   |  |  | <del></del>    |  |               | 3           | <u>bs</u>        | F  | ragment  |
| efarm              | 85       |   | 9908500201 |   |  |  |                | <del></del>                                      |               |             |                  |  |          |
| efarm              | 85       |   | 9908500301 |   |  |  | <del></del>    | <del></del>                                      |               | 0.25        |                  | F  | ragment  |
| efarm              | 85       | 99085003                                | 9908500302 | 1764286' 1 1                                      | 112647' 8"                                       | 105 mm BE/Inert                                  | <del>-  </del> | <del></del>                                      |               | 0.25        |                  |  | ragment  |
| tural Brush/Forest | 85       | 89085005                                | 9908500501 |   |  |  | <del> </del>   | 3  | <u>n</u>      | 25 1        |                  |  | Ordnance |
|                    | 94       |   | 9909401201 |   |  |  | <del> </del>   |  |               | 0.25 K      | DS               |  | ragment  |
| ural Brush/Forest  | 93       |   | 9909300101 |   | <del></del>                                      |  | <del></del>    |  |               | 1 (         |                  |  | ragment  |
| ural BrushyForest  | 93       | 99093002                                |            |   |  | <del></del>                                      | <del>   </del> |  |               | 0.25 A      | xs               |  | ragment  |
| ural Brush/Forest  | 93       | 99093004                                | 9909300401 |   |  | <del></del>                                      | <del></del>    |  |               |             |                  |  |          |
| ural BrustyForest  | 93       |   | 9909300801 |   |  | <del>_</del>                                     | <del></del>    |  |               | 0.5         | 25               | F  | ragment  |
| ural Brush/Forest  | 93       | 99093008                                | 9909300601 |   | <del> </del>                                     | uze  |                |  |               | 0.25 R      | ×s —             |  | ragment  |
| ral Brush/Forest   | 93       | 99093009                                | 9909300901 | <del></del>                                       | <del></del>                                      | <u> </u>   | <del></del>    |  |               | 1 18        |                  |  | ragment  |
| ural Brush/Forest  | 93       | 99093011                                | 9909301101 | <del></del> -                                     | <del></del> +                                    | <del></del>                                      |                |  |               | 2 1         |                  |  | ragment  |
| rvestigated Area   | 96       | 99098001                                |            | <del>  </del>                                     | <del></del> -∔                                   | <u> </u>   |                |  |               | 0.25 IL     |                  |  | ragment  |
| ural BrustvForest  | 238      |   | 9923800101 | <del> +</del>                                     | <del> </del> _                                   |  |                |  |               | <del></del> | <del>~ -  </del> | <del></del>                                      | oynenc   |
| ural Brush/Forest  | 238      |   | 923600201  | <del>  </del> -                                   |  | arbed wire                                       |                |  |               | 1 10        | <del>-  </del>   | <del>  </del>                                    |          |
| ral Brush/Forest   | 238      | 99238003 9                              |            |   |  | arbed wire                                       |                | <del>  </del>                                    | <del></del> + | 2 10        |                  |  | ctab     |
| wal Brush/Forest   | 238      | 99238004                                | 923800404  | <del></del>                                       | <u> </u>   |  |                | 1 1  |               | 0.5 Hz      |                  |  | сгар     |
|                    |          |   |            |   | ĮB   | arbed wire                                       | <del></del>    | →——  |               | 0.25 lb     |                  | ĮF)  | ragment  |





|                      |           |                        | <u></u>     |  | uenzi MNO  | DESCRIPTION   | COMMENTS    | DEPTH         | DEPTH<br>UNITS                                   | WEIGHT  | WEIGHT<br>UNKTS | EXPLOSIVE         |               |
|----------------------|-----------|------------------------|-------------|--|--|---------------|-------------|---------------|--|---|-----------------|-------------------|---------------|
| ECTORS NAME          | GRID ID   | ANOMALY 1D             | OBJECT 10   | EASTING  | HORIHING   | DESCRIPTION   | <del></del> |               | Γ  | 0.25  | bs              | <u> </u>          | Scrap         |
|                      | 237       |                        | 9923700201  |  |  | Barbed wire   |             | _             |  | 0.25  | lbs.            |                   | Scrap         |
| atural Brush/Forest  | 237       | 00237003               | 9923700301  |  |  | Barbed wire   |             |               |  | 0.25  | 5               | <del></del>       | Scrap         |
| atural BrustyForest  | 237       | 99237004               | 9923700401  |  |  | Barbed wire   |             |               |  | 1.5   | lbs             |                   | Scrap         |
| atural Brush/Forest  | 292       | 99292001               |             |  |  |               |             |               |  | 0.5   | ibs             |                   | Scrap         |
| latural Brush/Forest | 292       |                        |             |  |  |               |             |               |  |   | Ī               |                   | <b></b>       |
| latural Brush/Forest | 292       |                        |             | <del>                                     </del> |  |               |             | _   _         | <del>                                     </del> |   |                 |                   | No. 11 - Dood |
| latural BrustyForest | 292       |                        |             |  |  |               |             | <del></del>   |  |   | Ī               |                   | Magnetic Rock |
| latural Brush/Forest | 291       |                        | 992910010   | 1  |  | Magnetic Rock |             |               | 1  |   | <u> </u>        |                   | Magnetic Rock |
| latural Brush/Forest | 291       |                        | 992910020   | 1  |  | Magnetic Rock |             |               |  |   | [               |                   | Magnetic Rock |
| latural BrustyForest | 291       |                        |             |  |  | Magnetic Rock |             |               | <del>                                     </del> |   | I               |                   | Magnetic Rock |
| latural Brush/Forest |           |                        |             |  |  | Magnetic Rock |             |               |  |   | Ī               |                   | Magnetic Rock |
| latural Brush/Forest |           |                        |             |  |  | Magnetic Rock |             |               |  |   | T               |                   | Magnetic Rock |
| latural BrustyForest |           |                        |             | 1  |  | Magnetic Rock |             |               |  |   | T               |                   | Magnetic Rock |
| Natural Brush/Forest |           |                        | 992890010   | 1  |  | Magnetic Rock |             |               |  |   | fbs             |                   | Scrap         |
| Natural Brush/Forest |           |                        | 1 992800010 | 11   |  | <u></u>       |             |               | 1  |   |                 |                   | Soil Layer    |
| Natural Brush/Forest |           |                        |             |  |  | Soil layer    |             |               | <del>                                     </del> |   | T               |                   | \             |
| Natural Brush/Forest | 25        |                        |             | 7  |  |               |             |               | <del>                                     </del> |   |                 |                   | Soil Layer    |
| Natural Brush/Forest |           |                        | 5 992800050 | <del>1</del>                                     |  | Soil layer    |             |               | <del> </del>                                     | 2.2   | 5 lbs           |                   | Fragment      |
| Natural Brush/Forest | 28        |                        | 6 890940060 | nl   |  |               |             |               |  | 1   | 1 lbs           |                   | Fragment      |
| Natural Brush/Forest |           |                        | 8 990940080 | 11   |  |               |             |               |  |   | 3 ibs           |                   | Fragment      |
| Natural Brush/Forest |           | 4 9909400<br>4 9909400 | 9 990940090 | 71   |  |               |             |               |  | 0.2   | 5 lbs           |                   | Fragment      |
| Natural Brush/Forest | •         |                        | 5 99011005  | 01   |  |               |             | <del></del>   | <b>—</b>   | 0   | 5 lbs           |                   | Fragment      |
| Natural BrustyForest | `         |                        | 6 99011006  | 01   |  |               |             |               |  |   |                 |                   |               |
| Natural Brush/Forest |           |                        |             | 1  |  |               |             |               |  | <del></del>                                       | 5 lbs           |                   | Fragment      |
| Natural Brush/Forest |           | 9901100                | 99011007    | 01   |  |               |             | <del></del>   | - }  |   | 1 lbs           |                   | Fragment      |
| Natural Brush/Fores  | •         | 1 9901100              | 0 99011010  | 01   |  |               |             | <del></del>   |  | <del>                                      </del> | .5 lbs          |                   | Fragment      |
| Natural BrustyFores  |           |                        | 99011011    | 01   |  |               |             | <del></del>   |  | 0.  | 75 lbs          |                   | Fragment      |
| Natural Brush/Fores  |           |                        | 13 99011013 | 01   |  |               |             | <del></del>   | <del></del> -                                    |   | .5 lbs          |                   | Fragment      |
| Natural Brush/Fores  |           |                        | 14 99011014 | 01   |  |               |             |               | <del></del>                                      | - O.  | 25 lbs          |                   | Fragment      |
| Natural Brush/Fores  | `         |                        | 01 99089001 | <del>(1)</del>                                   |  |               |             |               | <del></del>                                      |   | .5 libs         |                   | Fragment      |
| Natural Brush/Fores  |           |                        |             | <u> </u>   |  |               |             |               | <del></del> -                                    |   | 1.5 lbs         |                   | Fragment      |
| Natural Brush/Fores  |           |                        | **          |  |  |               |             | <del></del>   |  |   | ).5 lbs         |                   | Fragment      |
| Natural Brush/Fores  |           | 89 990690              | 05 9908900  |  |  |               |             | <del></del>   |  |   | 25 lbs          |                   | Fragment      |
| Natural Brush/Fores  | <u></u>   | 990890                 | 02 99009002 | 201  |  |               |             |               | +  |   | 25 lbs          |                   | Fragment      |
| Natural Brush/Fore:  | st        | 9 990090               | 03 9900900  | 201  | <del>-  </del>                                   |               |             | <del></del>   | +-   |   | 0.5 lbs         |                   | Fragment      |
| Natural Brush/Fores  |           | 9 990090               | 04 9900900  | 101  | <del>-  </del>                                   |               |             |               |  |   | 0.5 lbs         |                   | Fragment      |
| Natural Brush/Fore   |           |                        |             |  | <del>                                     </del> |               |             | +             |  |   | 25 lbs          |                   | Fragment      |
| Natural Brush/Fore   |           | 90 990900              |             |  |  |               |             | <del></del> - |  |   | 0.5 lbs         |                   | Fragment      |
| Natural BrustyFore   | <b>84</b> | 90 990900              |             |  | <del>-  </del>                                   |               |             |               |  |   | .25 lbs         |                   | Fragment      |
| Natural Brush/Fore   | st        | 90 990900              |             |  | -  |               |             |               | -  |   | 0.5 lbs         |                   | Fragment      |
| Natural Brush/Fore   |           |                        | 9909000     |  | <del></del>                                      |               |             |               |  |   | J. J. J. J.     | <del>-   , </del> |               |
| Natural Brush/Fore   |           | 90 990900              |             | - II   | <del></del> -                                    |               |             | +             |  | <del></del>                                       | .25 lbs         | <del>-  </del>    | Fragment      |
| Natural Brush/Fore   |           | 91 990910              | 002         | <del></del>                                      | _  | <del></del>   |             |               |  | <del>-   - `</del>                                | -20 000         |                   |               |
| Natural Brush/Fore   |           |                        | 9909100     | 301  | <del></del>                                      |               |             |               |  |   | 0.5 lbs         | <del> </del>      | Fragment      |
| Natural Brush/Fore   |           | 91 99091               | 005         |  |  |               |             |               | ——   | <del></del>                                       | 0.5 lbs         |                   | Fragment      |
| Natural Brust/Fore   |           | 91 99091               | 008 9909100 | H01  | _  |               |             |               |  |   |                 | <del>  </del> -   | Fragment      |
| Natural Brush/Fore   |           | 91 99091               | 009 9909100 | 901  | <del></del>                                      |               |             |               |  |   | 0.5 lbs         |                   | Scrap         |
| Natural Brush/Fon    |           | 91 99091               | 010 9909101 | 1001)  |  |               |             |               |  | ļ   | 1.5 lbs         |                   | 100,00        |

| SECTORS NAME         | GRID ID | ANOMALY ID | OBJECT ID   | EASTING       | NORTHING   | DESCRIPTION                        | COMMENTS     | DEPTH  | DEPTH          | WEIGHT           | WEIGHT          |             |                |
|----------------------|---------|------------|-------------|---------------|--|------------------------------------|--------------|--|----------------|------------------|-----------------|-------------|----------------|
| Natural Brush/Forest | 92      | 99092002   | 990920020   | 1             |  |                                    |              |  | OITIIS         | WEIGHT           | OME IS          | EXPLOSIVE   | OBJ NAM        |
| Vatural Brush/Forest | 94      | 99094001   | 9909400101  |               | <del>                                       </del> |                                    | <del></del>  |  |                | 0.5              | lbs             |             | Fragment       |
| latural Brush/Forest | 94      |            | 9909400201  |               | <del> </del>                                       |                                    |              |  |                | 1                | lbs             |             | Fragment       |
| Vatural Brush/Forest | 94      | 99094004   | 9909400401  | <del> </del>  | <del></del>  |                                    | <u> </u>     |  |                |                  | lbs             |             | Fragment       |
| latural Brush/Forest | 111     |            |             | <del> </del>  | <del>                                       </del> | <del>-</del>                       | <del> </del> |  |                | 0.25             | lbs             | T —         | Fragment       |
| latural Brush/Forest |         | 99011004   | 9901100301  | <del> </del>  | <del>                                     </del>   | <del></del>                        |              |  |                |                  |                 |             |                |
| inefarm              | 48      | 99048014   | 9904801401  |               |  | Surface Banding Cut Up Everywhere  |              |  |                | 0.5              | lbs             |             | Fragment       |
| inefarm              | 48      | 99048015   | 9904801501  |               |  | Contace parional Cut up Everywhere |              |  |                |                  |                 | T           | Scree          |
| inefarm              | 48      |            | 9904801601  |               |  | Surface Banding Cut Up Everywhere  |              |  |                | 0.5              | lbs             |             | Fragment       |
| inefarm              | 48      | 99048018   | 9904801801  |               |  | Consider Banding Col Up Everywhere | <u> </u>     |  |                |                  |                 |             | Scrap          |
| inclarm              | 48      | 99048019   | 9904801901  | <del></del> - |  |                                    | <del></del>  |  |                | 0.5              | lbs             |             | Fragment       |
| indam                | 48      | 99048020   |             | <del></del>   |  | <del></del>                        |              |  |                | 0.25             | libs            |             | Fragment       |
| inelarm              | 48      | 99048021   |             | <del></del>   |  | <del></del>                        |              |  |                | 0.25             | lbs             |             | Fragment       |
| inefarm              | 48      | 99048023   | 9904802301  | <del></del>   | ·  |                                    |              |  |                |                  |                 |             |                |
| inelarm              | 48      | 99048024   | 9904802401  |               |  |                                    |              |  |                | 0.25             | ltos            |             | Fragment       |
| nelarm               | 48      | 99048025   |             |               |  |                                    | <u> </u>     |  |                | 0.5              |                 |             | Fragment       |
| netarm               | 48      | 99048026   |             | <del>-</del>  | ·  | <del></del>                        |              |  |                | 0.5              | lbs             |             | Fragment       |
| netarm               | 48      | 99048027   | 9904802701  |               |  |                                    | <del></del>  |  |                |                  | lbs             |             | Fragment       |
| netarm               | 48      | 99048029   | 9904802901  |               |  |                                    |              |  |                | 0.25             | lbs             | Į           | Fragment       |
| nefarm               | 48      | 99048030   |             |               | ·  |                                    | <del></del>  |  |                | 0.5              | bs              |             | Scrap          |
| nefarm               | 48      | 99048031   | 9904803101  |               |  |                                    |              |  |                | 1                | lbs             |             | Fragment       |
| nefarm               | 48      | 99048032   | 9904803201  |               |  | ·                                  |              |  |                | 0.5              | bs              |             | Fragment       |
| nefarm               | 47      | 99047002   |             |               |  | <del></del>                        |              |  |                | 0.5              | #bs             |             | Fragment       |
| nefarm               | 47      | 99047003   | 9904700301  |               |  |                                    |              |  |                | 0.25             | lbs             |             | Fragment       |
| nefarm               | 47      |            | 9904700601  |               |  | · <u>-</u>                         |              |  |                | 0.25             | lbs             |             | Fragment       |
| nefarm               | 47      |            | 9904700701  | <del></del>   |  |                                    |              |  |                | 0.25             | bs              |             | Fragment       |
| nefarm               | 47      | 99047009   | 9904700901  |               |  |                                    |              |  |                | 0.5              | lbs             |             | Fragment       |
| nefarm               | 47      | 99047011   | 9904701101  |               |  | — <del>——</del> ———                |              |  |                | 0.5              | lbs             |             | Fragment       |
| nefarm               | 47      | 99047013   | 9904701301  |               |  |                                    |              |  |                | 0.25             | bs              |             | Fragment       |
| refarm               | 47      |            | 9904701401  |               |  |                                    |              |  |                | 0.25             | bs              |             | Fragment       |
| efarm                | 47      |            | 9904701601  |               |  |                                    |              |  |                | 0.25             | ba              |             | Fragment       |
| refarm               | 47      | 99047018   | 3334751301  |               |  | <del></del>                        |              |  |                | 0.25             |                 |             | ragment        |
| neferm               | 47      |            | 9904702001  | <del></del> - | <del>-                                    </del>   |                                    |              |  |                | — <del>- 1</del> |                 |             | - self-tage of |
| etarm                | 47      |            | 9904702101  | <del></del> + |  | <u> </u>                           |              |  |                | 0.25             | bs              | <del></del> | ragment        |
| efarm                | 47      |            | 9904702401  | <del></del>   |  |                                    |              |  |                | 0.25             |                 |             | ragment        |
| efarm                | 47      |            | 9904702501  | <del></del>   |  |                                    |              |  | <del></del>    | 0.5              |                 |             | ragment        |
| efarm                | 47      |            | 9904702701  |               |  |                                    |              |  |                | 0.5              |                 |             | ragment        |
| efam                 | 47      |            | 9904702702  | <del>  </del> |  | <u></u>                            |              | _  |                | 0.5              |                 |             | ragment        |
| efarm                | 47      |            | 9904702801  |               |  | <del></del>                        |              |  |                | 0.5              | _               |             | Scrap          |
| efarm                | 48      | 99048010   | 9904801001  | 784028174     | 442444125  | 105 mm BE/Inert                    | <u> </u>     |  |                | 0.5              |                 |             | ragment        |
| efarm                | 48      | 99048011   | 9904801101  | 7 34020 / 1   | 113144 3"  | US mm BE/Inert                     |              | 5 is   | 1              | 25               |                 |             | Ordnance       |
| efarm                | 48      |            | 9904801201  |               | <del></del> -                                      | ·                                  |              | _[   |                | 0.25             |                 |             | ragment        |
| farm                 | 48      |            | 9904801301  |               |  |                                    |              |  |                | 0.5              |                 |             |                |
| ural Brush/Forest    | 260     |            | 9926001001  |               |  | Surface Banding Cut Up Everywhere  |              |  |                |                  | <del>'' </del>  |             | ragment        |
| ural Brush/Forest    | 260     |            | 9926001201  | <del></del>   | <b></b>  |                                    |              | <del>                                     </del> |                | 1 1              | <del>-</del>    |             | Scrap          |
| ural Brush/Forest    | 257     | 00257004   | 9925700101  | <del></del> - |  |                                    |              | <del>"  -  </del>                                | <del>- 1</del> | 5 1              | _               |             | сгар           |
| ral Brush/Forest     | 257     | 99257002   | 9959100101  |               |  |                                    |              | <del>  -  </del>                                 |                | 0.25 #           |                 |             | сгар           |
| ural Brush/Forest    | 257     |            | 0025700264  |               |  |                                    |              | <del></del>                                      | <del></del>    | <u></u>          | <del>~~</del> + | <del></del> | ragment        |
|                      | 431     | 99257003   | 9923/UU3U]] | I             | 1  |                                    |              | <del></del>                                      |                | 0.5 N            |                 |             | •              |



| <u>_</u>              |         |                        |             |             |               |  |          |                  | DEPTH  |                     | WEIGHT   |              |             |
|-----------------------|---------|------------------------|-------------|-------------|---------------|--|----------|------------------|--|---------------------|----------|--------------|-------------|
| ECTORS NAME           | GRID ID | ANOMALY ID             | OBJECT ID   | EASTING     | NORTHING      | DESCRIPTION                                  | COMMENTS | DEPTH            | UNITS  | WEIGHT              | UNITS    | EXPLOSIVE    | OBJ NAME    |
| atural Brush/Forest   | 257     | 99257006               |             |             |               |  |          |                  |  | ├──                 |          |              |             |
| atural Brush/Forest   | 257     | 99257007               |             |             | <u> </u>      |  |          |                  |  | 1                   |          |              |             |
| atural Brush/Forest   | 257     | 99257008               |             |             |               |  |          |                  | -  | t —                 |          |              |             |
| atural BrustVForest   | 257     | 99257009               |             |             | I             |  |          |                  | <del>                                     </del> | †                   |          |              |             |
| atural Brush/Forest   | 258     | 99258001               |             |             | <u> </u>      |  |          |                  | <del>                                     </del> |                     |          |              | Soil Layer  |
| atural Brush/Forest   | 258     |                        | 992580020   | 1           | Ţ <u></u>     | Soil layer                                   |          |                  | +  | 0.25                | lbs      |              | Fragment    |
| atural Brush/Forest   | 258     |                        | 992580050   |             | <u> </u>      |  |          |                  | +  | 0.25                | lbs      |              | Fragment    |
| atural BrusivForest   | 258     |                        | 992580060   |             |               |  |          | <del>-  </del>   | + -  | 0.25                | lbs      |              | Fragment    |
| atural Brush/Forest   | 258     |                        |             |             |               |  |          |                  | <del>                                     </del> |                     |          |              |             |
| atural Brush/Forest   | 256     | 99258010               |             |             | <u> </u>      |  |          |                  | <del>                                     </del> | 0.25                | lbs      |              | Fragment    |
| latural Brush/Forest  | 258     |                        | 992580120   | 1           |               |  |          |                  | <del>                                     </del> |                     |          | T            |             |
| latural BrusivForest  | 259     |                        |             |             | <u> </u>      | <u> </u>                                     |          |                  | <del>                                     </del> |                     |          |              |             |
| latural BrustyForest  | 259     |                        |             |             | <del></del>   | <u>                                     </u> |          | <del></del>      | 1  | 1                   |          | I            |             |
| latural Brush/Forest  | 259     |                        |             |             | <u> </u>      |  |          |                  | <del>                                     </del> | 1                   |          |              |             |
| latural BrusivForest  | 259     | 9925900                | 8           |             | 1             | <del> </del>                                 |          |                  | <del>                                     </del> | 1                   |          |              | Soll Layer  |
| Valuati Brusiv/Forest | 259     | 9925900                | 992590080   | 1           |               |  |          |                  | <del></del>                                      | 0.2                 | 5 ibs    |              | Fragment    |
| andfill and Compost   |         | 9910000                | 1 991000010 | 1           |               | <del></del>                                  |          | <del>-  </del> - | <del>                                     </del> | 1                   | 1 lbs    |              | Fragment    |
| andfill and Composti  |         |                        | 2 991000020 | 11          |               | Fuze   |          |                  |  |                     | 1 libs   |              | Fragment    |
| Pinefarm              | 41      | 9904800                | 2 990480020 | 1           |               |  |          |                  |  | 0.                  | 5 lbs    |              | Fragment    |
| Pinefarm              | 40      | 9904800                | 3 990480030 | 11          | <u></u>       | <u> </u>                                     |          |                  | <del>                                     </del> | 0.                  | 5 lbs    |              | Fragment    |
| Pinefarm              | 4       |                        | 4 990480040 | 11          |               |  |          | <del>-  -</del>  |  |                     | 1 lbs    |              | Fragment    |
| Pinefarm              | 4       | 8 9904800              | 5 990480050 | )1          |               |  |          | <del></del>      | +  | 0.2                 | 5 lbs    |              | Fragment    |
| Pinefarm              | 4       | 8 9904800              | 7 990480070 | )1[         |               |  |          |                  | <del></del>                                      | 1                   |          |              |             |
| Pinefarm              | 1 4     | A 9904800              | 8           | T           |               |  |          | <del></del>      | <del>                                     </del> | 0                   | 5 lbs    | 1            | Fragment    |
| Pinefarm              | 1 4     | a 9904800              | 9 990480090 | 01          |               |  |          |                  |  |                     |          |              |             |
| Natural Brush/Forest  |         |                        |             |             |               |  |          | <del></del>      |  |                     |          |              |             |
| Natural Brush/Forest  |         |                        |             |             |               |  |          |                  |  | $\dashv$            |          |              |             |
| Natural Brush/Forest  |         | 0 9926000              | 9           |             |               |  |          | <del></del>      |  | 0.2                 | 25 lbs   |              | Fragment    |
| Natural Brush/Forest  |         | *                      | 3 99235003  | 01          |               |  |          | <del></del>      | 1-   | 0.2                 | 25 lbs   |              | Fragment    |
| Natural Brush/Forest  |         | 9923500                | 99235004    | 01[         |               | <u> </u>                                     |          |                  |  | 0.2                 | 25 lbs   |              | Fragment    |
| Natural BrusivForest  |         | 5 9923500              | 99235006    | 01          |               | <del></del>                                  |          | <del></del>      | +-   |                     | .5 lbs   |              | Fragment    |
| Natural BrustyForest  |         | 5 9923500              | 99235007    | 01          | _i            |  |          |                  | _  | $\dashv$            | 1 lbs    | J            | Fragment    |
| Natural BrustyForest  |         | 9923500                | 99235008    | 01          |               |  |          | <del></del>      | +  | <del>-  -</del> 0.: | 25 lbs   |              | Fragment    |
| Natural Brush/Forest  |         | 992340                 | 01 99234001 | 01          |               |  |          | <del></del>      | 1-   |                     | 25 lbs   |              | Fragment    |
| Natural Brush/Forest  |         | 992340                 | 03 99234003 | 01          |               |  |          |                  |  |                     | 25 lbs   |              | Fragment    |
| Natural Brush/Forest  |         |                        | 04 99234004 | 01          |               |  |          | <del> </del>     |  |                     | 25 lbs   |              | Fragment    |
| Natural Brush/Fores   |         | 34 992340              | 05 99234005 | 01          |               |  |          | <del>-  </del>   | <del></del>                                      |                     | 25 lbs   |              | Fregment    |
| Natural BrusivFores   |         |                        | 06 99234006 | 01          |               |  |          |                  |  |                     | 25 lbs   | <del> </del> | Fragment    |
| Natural Brush/Fores   |         |                        | 08 99234008 | 101         |               |  |          |                  | +  |                     | 25 lbs   |              | Fragment    |
|                       |         | 992340                 | 09 99234009 | 101         |               |  |          |                  | <del></del> -                                    |                     | 25 lbs   |              | Fragment    |
| Natural Brush/Fores   |         | 34 992340              | 10 99234010 | 001         |               |  |          |                  |  |                     | 1.5 lbs  | <del></del>  | Fragment    |
| Natural Brush/Fores   |         | 34 992340              | 11 99234011 | 01          | _             |  |          |                  | +  |                     | 0.5 libs | <del></del>  | Fragmen     |
| Natural Brush/Fores   |         | 34 992340              | 13 99234013 | 301         |               |  |          |                  |  |                     | .25 lbs  | _            | Fragment    |
| Natural Brush/Fores   |         | 34 992340              | 14 99234014 | 101         |               |  |          |                  |  |                     | .25 lbs  | <del></del>  | Fragmen     |
| Natural Brush/Fores   |         |                        | 15 9923401  | 501         |               |  |          |                  |  |                     | .25 lbs  |              | Fragmen     |
| Natural Brush/Fores   |         |                        | 02 9923300  | 201         |               |  |          | _                | <del></del>                                      |                     | .25 lbs  |              | Fragmen     |
| Natural Brush/Fores   |         | 33 992330              | 03 9923300  | 301         | <del>-1</del> |  |          |                  |  |                     | .25 lbs  | <del></del>  | Fragmen     |
| Natural Brush/Fores   |         | 33 992330<br>33 992330 | 05 9923300  | <del></del> | <del>-</del>  |  |          |                  |  |                     | .Z3 105  |              | - Tagnitali |

| AL-1-                |     |            | OBJECTIO      | <b>EASTING</b>                                   | NORTHING       | DESCRIPTION   | colterine   |                   | DEPTH   |              | WEIGHT      |                  |              |
|----------------------|-----|------------|---------------|--|----------------|---------------|-------------|-------------------|---|--------------|-------------|------------------|--------------|
| Natural Brush/Forest | 233 | 9923300    | 6 9923300601  |  |                |               | COMMENTS    | DEPTH             | UNITS   | WEIGHT       | UNITS       | <b>EXPLOSIVE</b> | <b>○</b>     |
| Natural BrustyForest | 233 | 9923300    | 9 9923300901  | <del>                                     </del> | <del> </del> - | <del> </del>  |             |                   | <del></del>                                       |              |             |                  | OBJ PORINE   |
| Natural Brust/Forest | 233 | 9923301    | 0 9923301001  |  | <del></del>    | <del></del>   |             |                   | <del> </del> -                                    |              | Ibe         | <b>_</b>         | Fragment     |
| Natural BrustyForest | 233 | 9923301    | 1 9923301101  |  |                |               |             |                   |   | 0.25         |             |                  | Fragment     |
| Natural Brush/Forest | 233 | 9923301    | 3 9923301301  |  |                |               |             |                   | <del>                                      </del> | 0.25         |             |                  | Fragment     |
| Natural BrustyForest | 233 | 9923301    | 9923301501    |  |                |               |             |                   |   | 0.25         |             |                  | Fragment     |
| Natural Brust/Forest | 233 | 99233017   | 9923301701    |  | <del></del>    |               |             |                   |   |              | lbs.        |                  | Fragment     |
| Natural Brush/Forest | 233 | 99233014   | 9923301801    |  |                |               |             | <del></del>       | ├─  | 0.25         |             |                  | Fragment     |
| Natural Brush/Forest | 260 | 9926000    | 9926000101    | <del></del>                                      |                |               |             | <del></del>       |   | 0.25         |             |                  | Fragment     |
| Natural Brush/Forest | 260 | 99260003   | 9926000301    | <del></del>                                      |                | Magnetic Rock |             |                   |   | 0.25         | lbs         |                  | ragment      |
| Natural Brush/Forest | 260 | 99260005   |               |  |                | Soil layer    |             | <del>-   </del>   |   | <del> </del> |             |                  | Magnetic Roc |
| Vatural Brush/Forest | 236 | 99236016   | 9923501901    |  |                |               |             | <del>    </del>   |   |              |             |                  | Soil Layer   |
| Natural Brush/Forest | 236 | 99236020   | 9923602001    |  |                |               |             | · <del></del>     |   |              |             |                  |              |
| Istural Brush/Forest | 235 | 99235002   | 9923500201    |  |                |               |             | <del></del>       |   | 0.25         |             |                  | regment      |
| tatural BrustyForest | 247 | 99247006   | 9924700601    |  |                |               |             | <del></del>       |   | 0.25         |             |                  | ragment      |
| latural Brush/Forest | 247 | 99247007   |               |  |                |               |             | ╌╃╶╼╌╏            |   | 0.25         |             |                  | ragment      |
| latural Brush/Forest | 247 | 99247009   | <del></del>   |  |                |               |             | <del></del>       |   | 0.5          | D8          |                  | ragment      |
| latural Brush/Forest | 248 | 99248002   | L I           |  |                |               |             | ╼╂╼╾╂             |   |              |             |                  |              |
| atural BrustyForest  | 248 | 99248004   |               |  |                |               |             | ╼╂╼╾┵             |   |              |             |                  |              |
| atural Brush/Forest  | 248 | 99248005   |               | <del></del> +                                    |                |               |             | ╼┼╼╾╌┼            |   | 0.25         |             | F F              | regment      |
| atural Brush/Forest  | 272 | 99272001   | 00240000T     | +  |                |               |             | ╼╁╼╾┵             |   |              | bs          |                  | regment      |
| atural Brush/Forest  | 271 |            | 9927100101    |  |                |               |             | ╼╂╼╾╼╂            |   | 0.5          | bs          |                  | ragment      |
| atural Brush/Forest  | 252 | 99252001   | **27 100 101  | ——∔  |                | uze           |             |                   |   |              |             |                  |              |
| stural Brush/Forest  | 252 | 99252003   |               | <del></del> +                                    |                |               |             |                   |   | 1            | be          | F                | regment      |
| stural Brush/Forest  | 251 | 99251001   |               |  |                |               |             |                   |   |              |             |                  |              |
| tural Brush/Forest   | 251 | 99251002   |               | <del></del> -                                    |                |               |             | <del></del>       |   | -            |             |                  |              |
| Murei Brush/Forest   | 251 |            | 9925100301    |  |                |               |             | <del></del>       |   |              |             |                  |              |
| rtural Brush/Forest  | 251 | 99251004   | 9925100401    | <del></del> -                                    |                |               |             |                   |   |              |             |                  |              |
| Aural Brust/Forest   | 251 | 99251006   | 9925100601    |  |                |               |             | <del>-   </del> . |   | 0.5          | be.         | Fi               | agment       |
| tural Brush/Forest   | 249 | 99249002   | 9924900201    | <del></del>                                      |                |               |             | <del></del>       |   | 1            | 24          |                  | agment       |
| tural Brush/Forest   | 250 | 99250001   | 9925000101    |  |                |               |             | ╌╃╌╌╾╏            |   | 1] i         |             |                  | 720          |
| turel Brush/Forest   | 250 | 99250003   | B0380000101   |  |                |               |             | <del></del>       |   | 0.25         | ×8          |                  | agment       |
| tural Brush/Forest   | 250 | 99250004   | 9935000301    | <b></b>  |                |               |             |                   |   | 1 1          | *           |                  | agment       |
| tural Brush/Forest   | 250 | 99250005   | 923000401     |  |                |               |             | <del></del>       |   | 0.25         | 18          |                  | gment        |
| tural Brush/Forest   | 236 | 99236003   | 9923000301    |  |                |               |             |                   |   | 0.25 (       |             |                  | gment        |
| tural Brush/Forest   | 236 |            | 9923600401    |  |                |               | <del></del> |                   | $-\bot$   | 1 N:         | 8           |                  | rap          |
| tural BrustyForest   | 236 | 7 7 7 7    | 9923600501    |  |                |               |             | ╌├╾╌╼╼┨╌          |   |              |             | <del></del>      |              |
| tural Brush/Forest   | 238 | 99236008   | PPZ3000001    |  |                |               | <del></del> | <del></del>       |   | 0.25 lb      |             | Fr               | gment        |
| ural BrustyForest    | 236 | 99236009   | 2022400004    |  |                |               | <del></del> | - <del></del>     |   | 0.25 lb      | 5           |                  | gment        |
| ural Brush/Forest    | 238 | 99236011 1 | 23000001      |  |                |               | <del></del> | <del></del>       |   |              |             |                  | Military.    |
| ural BrustvForest    | 236 | 99236012   | e230011011    |  |                |               |             | _                 |   | 0.25 lb      | •           | E <sub>r</sub>   | gment        |
| ural Brush/Forest    | 236 | 99236015   |               |  |                |               | <del></del> | <del></del>       | T   | 0.25 lb      | -           |                  | gment        |
| ural BrustyForest    | 238 | 99236016   |               |  |                |               | <del></del> | 4                 |   |              |             |                  |              |
| ural Brush/Forest    | 238 |            |               |  |                |               |             | J                 |   |              |             |                  |              |
| aral Brush/Forest    | 247 | 99236018 9 | WZ3601801     | [  |                |               |             | I                 |   |              |             | <del></del>      |              |
| rel Brush/Forest     | 247 | 99247003   | <del></del> L |  |                |               | <del></del> |                   |   | 0.25 lbs     |             |                  |              |
| ral BrustyForest     | 247 | 99247004 9 | W24700401     | $-\Box$  |                |               | <del></del> |                   |   |              |             |                  | gment        |
| fill and Compostin   | 50  | 99247005   |               |  |                |               | <del></del> |                   |   | 0.5 lbs      | <del></del> | <del></del>      |              |
|                      | 00  | 99080008 9 | 906000601     |  |                |               | <del></del> |                   |   |              | -           |                  | gment        |

|                       |                 | -          |                     |                  | NORTHING   | DESCRIPTION   | COMMENTS      | DEPTH          | DEPTH<br>UNITS                                   | WEIGHT           | UNITS           | EXPLOSIVE       |   |
|-----------------------|-----------------|------------|---------------------|------------------|--|---------------|---------------|----------------|--|------------------|-----------------|-----------------|---|
| CTORS NAME            | GRID ID         | ANOMALY ID | OBJECT ID           | EASTING          | MOKIMING   | DESCRIPTION   |               |                | Γ  | 0.25             |                 | <u> </u>        | Fragment                                  |
| ·-·                   | 80              |            | 9908000701          |                  |  |               | <del></del>   |                |  | 0.25             |                 |                 | Fragment                                  |
| ndfitt and Compostin  | 78              |            |                     |                  |  |               |               |                | t  | 0.25             | ibs             | <del></del>     | Fragment                                  |
| ndfill and Compostin  | 78              | 99078002   |                     |                  |  |               |               | _              | <del>                                     </del> | 0.25             |                 |                 | Fragment                                  |
| ndfill and Compostin  |                 | 98070002   | 990780040           | <del>il</del>    |  |               |               |                | <u> </u>   | 0.5              | lbs             |                 | Fragment                                  |
| ndfill and Compostin  | 78              |            | 990780050           | <del>il</del>    | 1  |               |               |                | 1  | 0.25             | 1bs_            |                 | Fragment                                  |
| ndfill and Compostin  | 78              |            | 990780060           | 1                |  |               |               |                | t —  | 0.25             | lbs             | <u> </u>        | Fragment                                  |
| ndfill and Compostin  | 78              |            | 990780080           | <del>11</del>    |  |               |               |                | +  | 0.2              | lbe             |                 | Fragment                                  |
| indfill and Compostin | 78              |            | 1 990770010         | <del>11</del>    | T  |               |               | <del></del>    | <del>                                     </del> | 0.29             | lbs             |                 | Fragment                                  |
| andfill and Compostin | 77              |            | 2 990770020         | <del>il</del> -  | <del>                                     </del> |               |               | <del>\</del>   | +  | 0.2              | lbs             |                 | Fragment                                  |
| andfill and Compostin | 77              | 9907700    | 3 990770030         | <del></del>      | <del>                                     </del> |               |               | <del>-  </del> | +  | 0.2              | ibs             |                 | Fragment                                  |
| andfill and Compostin | 77              | 9907700    | 3 990770030         | <del></del>      | +  |               |               |                | +  | 0.2              | lbs             |                 | Fragment                                  |
| atural Brush/Forest   | 212             |            | 2 992120020         | <del>'} </del>   |  |               |               |                | <del></del>                                      |                  | 5 fbs           |                 | Fragment                                  |
| atural BrusivForest   | 212             |            | 3 992120030         | <del>:</del>     | +  |               |               |                | <del></del>                                      |                  | Sibs            |                 | Fragment                                  |
| stural Brust/Forest   | 212             |            | 4 992120040         | <u>''</u>        | +  |               |               | <del></del>    | +  | 1                | Sibs            |                 | Fragment                                  |
| atural Brush/Forest   | 212             |            | 5 992120050         | <del>': </del> - | +  |               |               |                | +  |                  | 5 lbs           |                 | Fragment                                  |
| latural Brush/Forest  | 212             | 9921200    | 8 992120080         | <del>!} </del>   | +  |               |               |                |  |                  | 5 (bs           | _               | Fregment                                  |
| Istural BrusivForest  | 217             | 9921201    | 0 992120100         |                  | +  |               |               |                | <del></del>                                      |                  | 5 lbs           | _               | Fragment                                  |
| latural Brush/Forest  | 213             | 9921201    | 1 99212011          | <del>일 </del> -  | <del></del>                                      |               |               |                | <del></del>                                      |                  | 5 lbs           |                 | Fragment                                  |
| (atural BrustyForest  | 21:             | 9921201    | 2 99212012          | <u> </u>         | <del></del>                                      |               |               |                | ┵  |                  | 5 lbs           |                 | Fragment                                  |
| latural Brush/Forest  | 21              | 2 9921201  | 15 99212015         | 011              |  |               |               |                | →  |                  | 5 lbs           | <del>-  </del>  | Fragment                                  |
| latural Brush/Forest  | 21              | 2 992120   | 16 99212016         | 011              | +  | <del> </del>  |               |                | <del></del>                                      | <del></del>      | 1 lbs           |                 | Fragment                                  |
| Istual Brush/Forest   | 21              | 2 992120   | 18 99212018         | 011              | <del></del>                                      | <del>_</del>  |               |                |  |                  | 1103 -          | <del>-  </del>  |   |
| Vatural Brush/Forest  | 24              |            | 02 99245002         | 011              | <del> </del>                                     |               |               |                |  | <del>-  ,</del>  | 25 lbs          | <del></del>     | Fragment                                  |
| Natural Brush/Forest  | 24              | 5 992450   | 04                  |                  |  | <del></del>   |               |                |  |                  | .5 lbs          | <del>-+</del> - | Fragment                                  |
| Valural Brush/Forest  | 24              | 5 992450   | 05 99245005         | 01               |  |               |               |                |  |                  | .5 lbs          | <del></del>     | Fregment                                  |
| Natural Brush/Forest  | 24              | 5 992450   | 07 99245007         | 01               |  | _ <del></del> | <del></del>   |                |  |                  |                 | _+              | Fragment                                  |
| Natural Brush/Forest  | 24              | 992460     | 01 99246001         | 101              |  |               |               |                |  |                  | .5 lbs          | <del></del>     | 1,10,0                                    |
| Natural Brush/Forest  | 24              | 6 992460   | 03 99246003         | 101              |  |               |               |                |  | <del></del> -    | <del> </del>    |                 | Fragment                                  |
| Natural Brush/Forest  | 24              |            | 04                  |                  |  |               |               |                |  |                  | 25 lbs          |                 | + 144 G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Natural Brush/Forest  |                 | 992460     |                     | 001              |  |               |               | ·              | <u> </u>   |                  |                 |                 | Fragment                                  |
| Natural Brush/Forest  |                 | 992470     | 201                 |                  |  |               |               |                |  |                  | ).5 lbs         |                 | T raginora                                |
| Landfill and Compost  |                 | 990800     | 001 9908000         | 101              |  |               |               |                |  |                  |                 |                 | Fragment                                  |
| Landfill and Compost  |                 | 990800     | 002                 |                  |  |               |               |                |  |                  | 25 lbs          |                 | Fragment                                  |
| Landilli and Composi  |                 | 990800     | 003 9908000         | 301              |  | Fuze body     | ·             |                |  | 1                | 0.5 lbs         |                 | Fragment                                  |
|                       | <del>~-</del> - | 35 991350  | 012 9913501         | 201              |  |               | _ <del></del> |                |  |                  | 0.5 libs        |                 | Scrap                                     |
| Pond                  |                 | 35 99135   | 013 9913501         | 301              |  | _             |               |                |  | 0                | .25 lbs         |                 |   |
| Pond                  |                 | 35 99135   | 014 9913501         | 401              |  |               | <del></del> _ |                |  |                  |                 |                 | Farance                                   |
| Pond                  |                 | 34 99134   |                     |                  |  |               |               |                |  |                  | .25 lbs         |                 | Fragment                                  |
| Pond                  |                 | 34 99134   | 002 9913400         | 201              |  | _             |               |                | _  |                  | 0.5 lbs         |                 | Fragment                                  |
| Pond                  |                 | 34 99134   | 003 9913400         | 301              |  | l             | <del></del>   | <del></del>    |  |                  | .25 lbs         |                 | Screp                                     |
| Pond                  |                 |            | 004 9913400         | 1401             |  |               |               | <del></del>    | 1  |                  |                 |                 |   |
| Pond                  |                 |            |                     |                  |  |               |               |                |  | $\neg$           | 0.5 lbs         |                 | Scrap                                     |
| Pond                  |                 | -          | 007 9913400         | 701              | $\neg$   |               |               |                |  |                  | 0.5 lbs         | <u> </u>        | Scrap                                     |
| Pond                  |                 |            | 008 9913400         | 1801             |  |               |               |                | -  |                  | ).75 lbs        |                 | Fragment                                  |
| Pond                  |                 |            | 008 991340          | V001             |  |               |               |                | <del>-   -</del>                                 |                  | 0.5 lbs         | :-              | Fragment                                  |
| Pond                  |                 |            | 1008 BR 13401       | 0201             | 1  |               |               |                | <del></del>                                      | <del>-   -</del> | 0.25 lbs        |                 | Fragment                                  |
| Pond                  |                 |            | 3002 991330         | 0201             |  |               |               |                | <del></del>                                      |                  |                 |                 |   |
| Pond                  |                 |            | 991330              | ····-            |  |               |               |                |  |                  | 0.25 lbs        |                 | Fragment                                  |
| Pond                  |                 | 133 9913   | 3004<br>3006 991330 | _1               |  |               |               |                | 1  |                  | ~. <u>~~i~~</u> | <del></del>     |   |

| SECTORS NAME          | GRID ID | ANOMALY ID | OBJECT ID  | EASTING         | NORTHING      | DESCRIPTION                                    | COMMENTS      | DEPTH  | DEPTH          | WEIGHT    | WEIGHT      | FVM Asses  |            |
|-----------------------|---------|------------|------------|-----------------|---------------|--|---------------|--|----------------|-----------|-------------|--|------------|
| Pond                  | 133     | 99133007   |            |                 |               | <del></del>                                    |               |  |                | ********* | Q413        | EXPLOSIVE  |            |
| Pond                  | 133     | 99133009   |            |                 |               | <del></del>                                    |               | <b></b>  |                |           |             |  |            |
| Pond                  | 133     | 99133010   |            |                 | <del></del>   |  | <del></del>   |  |                | <u> </u>  |             |  |            |
| Pond                  | 132     | 99132002   | 9913200201 |                 |               |  | <del></del>   |  | <u> </u>       |           |             |  |            |
| Pond                  | 132     | 99132003   | 9913200301 |                 |               |  | <del></del>   |  |                | 0.5       |             |  | Screo      |
| Pond                  | 132     | 99132004   | 9913200401 |                 |               |  | <del></del>   |  |                | 0.5       |             |  | Scree      |
| Pond                  | 132     | 99132008   | 9913200701 |                 | -             |  | <del></del>   |  |                | 0.25      |             |  | Screp      |
| Pond                  | 132     | 99132000   |            |                 |               |  | <del></del>   |  |                | 0.25      | lbs         |  | Screp      |
| Pond                  | 132     | 99132010   | 9913201001 |                 |               | Magnetic Rocks                                 | <del></del>   |  |                |           |             |  |            |
| Pond                  | 132     | 99132011   |            |                 |               |  | <del></del>   |  |                |           |             |  | Magnetic R |
| andfill and Compostin | 79      | 99079002   | 9907900201 |                 |               |  | <del></del>   | <del>_</del>                                     |                |           |             |  |            |
| andfill and Compostin | 79      |            | 9907900401 |                 |               |  |               |  |                | 0.5       |             |  | Fragment   |
| andfill and Composiin | 79      | 99079006   | 9907900601 |                 |               |  |               |  |                | 0.75      | be          |  | Fragment   |
| and and Compostin     | 79      | 99079007   | 9907900701 |                 |               | ·  | <del></del>   |  |                | 0.25      |             |  | Fragment   |
| andfill and Compostin | 79      | 99079010   | 9907901001 |                 |               |  | <del></del>   |  |                | 0.25      |             |  | Fragment   |
| andfill and Compostin | 79      | 99079011   | 9907901101 |                 |               |  | <del></del>   | _  |                | 0.25      |             |  | Fregment   |
| ond                   | 135     | 99135006   | 9913500601 |                 |               |  | <del></del>   |  |                | 0.25      |             |  | Fragment   |
| ond                   | 135     | 99135009   | 9913500901 |                 |               |  | <del></del>   | _  |                | 0.5       | lbe         |  | Fragment   |
| ond                   | 135     | 99135011   | 0013501101 |                 |               | <del></del>                                    | <del>  </del> |  |                | 0.5       | bs          |  | Screp      |
| ond                   | 150     |            | 9915000501 |                 |               |  | <del></del> - |  |                | 0.25      |             |  | Scree      |
| ond                   | 150,    | 99150008   | 9915000601 |                 |               |  |               |  |                | 0.25      | be          |  | Fragment   |
| ond                   | 150     | 99150008   | 9915000001 | ·               |               | · · · · · · · · · · · · · · · · · · ·          |               |  |                | 0.25      | bs          |  | Fragment   |
| ond                   | 150     |            | 9915000901 |                 |               | Fuze body                                      |               |  |                | 0.5       | bs          |  | ragment    |
| ond                   | 150     | 99150010   | 9915001001 |                 |               | LEE COLY                                       |               |  |                | 0.5       | bs          |  | ragment    |
| ond                   | 150     |            | 9915001101 | <del></del>     |               |  |               |  |                | 0.5       | bs          |  | regment    |
| ond                   | 150     | 99150013   | 9915001301 |                 | <del></del>   |  |               |  |                | 0.25      | be          |  | ragment    |
| ond                   | 150     | 99150014   | 9915001401 |                 | <del></del>   |  |               |  |                | 0.25      | bs          |  | ragment    |
| ond                   | 150     | 99150015   | 9915001501 |                 |               |  |               |  |                | 0.25      | <b>5</b> 8  |  | ragment    |
| ond                   | 150     | 99150016   |            |                 |               |  |               |  |                | 0.25      | bs b        |  | ragment    |
| ond                   | 150     | 99150018   |            |                 |               | <del>_</del>                                   |               |  |                | 0.25      | be l        |  | ragment    |
| ond .                 | 150     |            | 9915001901 |                 |               | uze body                                       |               |  |                | 0.25      | be l        |  | ragment    |
| ond                   | 150     | 99150019   |            |                 | <del>  </del> | UZE DOUY                                       |               |  |                | 0.5 1     | be          |  | ragment    |
| ond                   | 150     | 99150020   |            |                 |               |  |               |  |                | 0.25      | bit         |  | regment    |
| ond                   | 151     | 99151001   | 9915100101 |                 | <del></del>   |  | ·             |  |                |           |             | <u>_</u>   |            |
| ond                   | 151     | 99151003 1 |            | +               |               |  |               |  |                | 0.5       | bs T        |  | regment    |
| ond                   | 151     | 99151004 1 |            | <del></del>     | <del> +</del> |  |               |  |                | 0.25      |             | <del>-                                    </del> | ragment    |
| ind                   | 151     | 99151005   | 9915100501 |                 |               |  |               |  |                | 0.5       |             |  | ragment    |
| nd                    | 151     | 99151008 ( | 915100601  |                 | <del></del> - | <del> </del>                                   |               |  |                | 0.25      |             |  | ragment    |
| nd                    | 151     | 99151009   | 915100901  |                 | <del></del>   |  |               |  |                | 0.5       |             |  | regment    |
| nd                    | 151     | 99151011   | 915101101  | <del></del>     | <del></del>   | <del></del>                                    |               |  |                | 0.25      |             |  | ragment    |
| nd                    | 151     | 99151012   | 915101201  | <del></del>     |               |  |               |  |                | 0.25      |             |  | ragment    |
| nd                    | 151     | 99151015   | 915101501  | -+              |               | <u> </u>                                       |               |  |                | 0.5 R     |             |  | ragment    |
| nd                    | 151     | 99151016   | 915101604  | <del>  </del> - | <del></del>   |  |               |  | <del> </del>   | 0.25      |             |  |            |
| nd -                  | 151     | 99151017   | 015101704  | <del></del>     | ——— <u>I</u>  |  |               | _  | <del>- +</del> | 0.5 16    |             |  | regment    |
| nd                    | 151     | 99151019 9 |            |                 |               |  |               | <del>                                     </del> |                | 0.25      |             |  | ragment    |
| nd -                  | 151     | 99151022 9 |            |                 | —             | - <u>-                                    </u> |               |  |                | 0.25 R    |             |  | regment    |
| nd                    | 151     | 99151023 9 |            |                 | <del> ,</del> |  |               | <del>                                     </del> | <del></del>    | 0.25 R    |             |  | ragment    |
| xd -                  | 135     | 99135001 9 |            |                 |               | Omm Fuze body                                  |               | <del>                                     </del> | <del>-  </del> | 0.25 lb   |             |  | regment    |
|                       | 130     | 44 (3300)  | #135UU1U1  | _ 1             | - 1           |  |               | <del></del>                                      |                | 1 16      | <del></del> |  | themget    |



|                     |            |            |                            |               |          |               |             |       | DEPTH  | WEIGHT      | WEIGHT       | EXPLOSIVE  | OBJ NAME     |
|---------------------|------------|------------|----------------------------|---------------|----------|---------------|-------------|-------|--------|-------------|--------------|--|--------------|
|                     |            |            |                            |               |          | RECEIDTION    | COMMENTS    | DEPTH | UNITS  | WEIGHT      | UNITS        | EXPERSION  |              |
| CTORS NAME          | GRID ID    | ANOMALY ID | OBJECT 1D                  | EASTING       | NORTHING | DESCRIPTION   |             |       |        | 0.5         | lbs          |  | Scrap        |
| CTORS NAME          |            |            | 9913500301                 |               |          | <u> </u>      |             | +     | 1      |             | lbs          | <u> </u>   | Scrap        |
| nd                  | 135        | 99135003   | 9913500501                 | 1             |          |               |             |       | t — —  |             | ibs          | <u> </u>   | Fragment     |
| nd                  | 135        | 98135003   | 991350070                  | il —          | 1        |               |             |       |        |             | lbs          | <u> </u>   | Fragment     |
| nd                  | 135        | 00150001   | 9915000101                 | il            | <u> </u> |               |             |       |        | 0.25        |              |  | Fragment     |
| nd                  | 150<br>150 | 99150007   | 991500020                  | it            |          |               |             |       |        | 0.9         | ibs          |  | Fragment     |
| nd                  | 150        | 99150004   | 991500040                  | 1             |          |               |             |       |        |             | <b>└</b>     |  | <del> </del> |
| nd                  | 216        |            |                            |               | Τ        | <u> </u>      |             |       |        | <u> </u>    | <u> </u>     |  | <del> </del> |
| rtural BrusivForest |            |            |                            |               | T        | <u> </u>      |             |       | T      | <u> </u>    | 1            |  | Emament      |
| stural Brush/Forest | 216<br>216 |            |                            |               |          |               |             |       |        | 0.2         | 5 lbs        |  | Fragment     |
| atural Brush/Forest | 218        |            | 992160160                  | 11            |          |               |             |       |        |             | <b>↓</b>     |  | <del></del>  |
| atural BrustyForest | 218        |            |                            |               |          | <u> </u>      |             |       | $\top$ |             |              |  | <del></del>  |
| atural Brush/Forest | 216        |            |                            | T             |          |               |             |       |        |             | <del> </del> |  | Fragment     |
| atural Brush/Forest | 216        | 9921602    | 1                          |               |          |               |             |       |        |             | 5 lbs        | _ <del></del>                                    | Fragment     |
| atural Brush/Forest | 216        |            | 3 992160230                | 71            |          |               |             |       |        |             | 5 lbs        | <del></del>                                      | Fragment     |
| atural Brush/Forest | 216        |            | 4 992160240                | 31            |          | <u> </u>      |             |       |        |             | 5 1bs        |  | Fragment     |
| atural BrustyForest | 210        |            | 5 992180250                | N             |          | <del></del>   |             |       |        | 0.2         | 5 lbs        | <del></del>                                      |              |
| atural Brush/Forest | 152        |            | 2 991520020                | <b>11</b>     |          | <u> </u>      |             |       |        |             |              |  | Fragment     |
| ond                 | 153        |            |                            |               | _L       |               |             |       |        |             | 5 lbs        |  | Fragment     |
| ond                 | 15         | 9915200    | 99152004                   | 01            |          |               |             |       |        |             | 25 lbs       | _+   | Fragment     |
| ond                 | 15         | 9915200    | 5 99152005                 | 01]           |          |               |             |       |        |             | .5 lbs       |  | Fragment     |
| ond                 | 15         | 9915200    | 7 99152007                 | 01            |          |               |             |       |        |             | 25 lbs_      | _+   | Fragment     |
| ond                 | 15         | 2 991520   | 8 99152008                 | 01]           |          |               |             |       |        |             | ),5 ibs      | <del></del> _                                    | Fragment     |
| ond                 | 15         | 991520     | 99152009                   | <u>01 </u>    |          |               |             |       |        |             | 25 lbs       |  | Fragment     |
| ond                 | 15         | 2 891520   | 10 99152010                | 01            |          |               |             |       |        |             | 25 lbs       |  | Fragment     |
| ond                 | 15         | 991520     | 13 99152013                | <u> 01 </u>   |          |               |             |       |        |             | 0.5 lbs      |  | Fragment     |
| Pond                | 15         | 2 991520   | 14 99152014                | <u> 01 </u>   |          |               |             |       |        |             | 25 lbs       |  | Fragment     |
| Pond                | 15         | 991520     | 16 99152016                | 01            |          |               |             |       |        |             | 0.5 lbs      |  | Fragment     |
| Pond                | 1 1        | 2 991520   | 17 99152017                | '01[ <u>_</u> | _        |               |             |       |        |             | 0.5 lbs      |  | Fregment     |
| Pond                | 1:         | 991520     | 20 99152020                | 01            |          |               |             |       |        |             | 25 lbs       | <del></del>                                      | Fragment     |
| Pond                | 11         | 991520     | 21 99152021                | 101           |          |               |             |       |        |             | 0.5 lbs      |  | Fragment     |
| Pond                |            | 10 991490  | 01 9914900                 | 101           |          |               |             |       |        |             | 25 108       |  | Fragment     |
| Pand                |            | 46 991490  | 03 9914900                 | 301           |          |               |             |       |        |             | 25 lbs       |  | Fragment     |
| Pond<br>Pond        |            | 401 991490 | 9914900                    | 501           |          | Fuze body     |             |       | _}_    | <del></del> | 1 lbs        |  | Fragment     |
| Pond                |            | 49 991490  | 008 9914900                | 601           | _}       | CULO VOLY     |             |       |        |             | 2 lbs        | <del>-                                    </del> | Fragment     |
| Pond                |            | 40 991491  | 007 9914900                | 701           |          |               |             |       | _+_    |             | 0.5 lbs      |  | Fragment     |
| Pond                |            | 49 99149   | 010 9914901                | 001           | _}_      |               |             |       |        |             | 0.5 lbs      |  | Fragment     |
| Pond                |            | 46 99149   | 012 9914901                | 201           |          |               |             |       |        |             | 0.25 lbs     |  | Fragment     |
| Natural Brush/Fores | 2          | 16 99216   | 010 9921601                | 001           | _        |               |             |       | _+_    | <del></del> | y,20 R00     | <del></del>                                      |              |
| Natural Brush/Fores |            | 16 99216   | 011 9921601                | 101           |          |               |             |       |        |             |              |  | Magnetic Re  |
| Natural Brush/Fores |            | 16 99216   | 013                        |               |          | Magnetic Rock |             |       |        |             | 0.25 lbs     | <del>-                                    </del> | Fragment     |
| Natural Brush/Fores |            | 14 99214   | 007 9921400                | 701           |          | Magneto Noon  |             |       |        |             | 0.25 lbs     | <del>-   -</del> -                               | Fragment     |
| Natural Brush/Fore  |            | 99214      | 008 9921400                | )801          |          |               |             |       |        |             | 0.25 lbs     | <del> -</del>                                    | Fragment     |
| Natural Brush/Fore  | <u> </u>   | 99214      | 009 9921400                | 901           |          |               |             |       | +_     |             | 0.25 lbs     |  | Fragment     |
| Natural Brush/Fore  |            | 214 99214  | 011 9921401                | 1101          |          | <del></del>   |             |       |        |             | 0.25 lbs     | <del>-   -</del>                                 | Fragment     |
| Natural Brush/Fore  |            | 99214      | 012 992140                 | 1201          |          |               |             |       |        |             | 0.25 lbs     |  | Fragment     |
| Natural Brush/Fore  |            | 214 99214  | 013 992140                 | 1301          |          |               |             |       |        |             | 0.25 lbs     |  | Fragment     |
| Natural BrustyFore  |            | 214 99214  | 4015 992140<br>4016 992140 | 1501}         |          |               | <del></del> |       |        | !           | U.Z01108     |  |              |

| SECTORS NAME Natural Brush/Forest        | 7 21   | ANOMALI ID         | OBJECT ID       | EASTING        | i NORTHING    | G DESCRIPTION  |             |                | DEPTH            |          |              | -              |                  |
|--|--------|--------------------|-----------------|----------------|---------------|--|-------------|----------------|------------------|----------|--------------|----------------|------------------|
| Natural Brush/Forest                     | 224    | 772 1701           | VI/1 8827401701 | <b>J</b> 1     | <del></del>   |  | COMMENTS    | DEPTH          | DEPTH<br>H UNITS |          | WEIGHT       |                |                  |
| Natural Brush/Forest                     |        | <u>*1</u> 99214016 | 018             |                | +             |  |             |                | UMIO             | WEIGHT   | T UNITS      | EXPLOSIVE      | OD I HAM         |
| Natural Brush/Forest                     | 1 - 34 |                    | 9921402001      | <i>i</i> il —— | +             |  |             |                | 1                |          | 0.5 lbs      | <del></del>    |                  |
| Natural Brush/Forest                     | 214    | 99214021           | 21 9921402101   | <b>₁┼─</b> ──  | +             |  |             | <del></del>    | 1                | +        | 1100         |                | Fragment         |
| Natural Brush/Forest                     | 214    | 99214022           | 122             |                | +             |  |             |                |                  | 1 0.7    | 25 lbs       | <b></b>        |                  |
| Natural Brush/Forest                     | 214    |                    | 23 9921402301   | 1              | <del> </del>  | - <del></del>  |             | <del></del>    |                  |          | 25 lbs       | <b></b>        | Fragment         |
| Natural Brush/Former                     | 214    | 99214025           | 25 9921402501   | <b>1</b> →     | <del></del>   |  |             | <del></del>    |                  | 1        | 1            | <del>-</del>   | Fragment         |
| Natural Brush/Forest                     | 214    | 99214026           | 26              | <del>1</del>   | <del></del>   | <del></del>  |             | <del></del>    |                  |          | 25 lbs       | <del> </del> - |                  |
| Natural BrustyForest                     | 214    |                    | 27 8921402701   | <u> </u>       | <del></del>   | <del></del>  |             | <del></del>    |                  |          | 5 lbs        | <del></del>    | Fragment         |
| Natural Brush/Forest                     | 214    | 99214028           | 28 9921402801   | <del> </del>   | <del></del>   | +  |             | <del></del> '  |                  |          | <del> </del> | <del></del>    | Fragment         |
| Natural Brush/Forset                     | 215    |                    | 9921500201      |                |               | <del></del>  |             |                |                  |          | 5 be         | <del></del>    | <del></del>      |
| Natural Brush/Forest                     | 215    |                    | 4 9921500401    |                |               | <del> </del>   |             | <del></del>    | <b></b> '        | 0.25     | 5 tba        |                | Fragment         |
| Natural Brush/Forest                     | 215    | 99215006           | 5 9921500501    |                |               | <del></del>  |             |                | 4′               | 0.25     | 5 ibs        |                | Fragment         |
| Natural Brush/Forest                     | 215    | 20215000           | 4               |                | <del></del>   | <del></del>  |             | <del></del>    | 4                | 0.25     | 5 lbs        | <del></del>    | Fragment         |
| Makural British/Forest                   | 215    | 99215009           | 9 9921500901    |                | , <del></del> | <del></del>  |             | -+             |                  |          | ibe          |                | Fragment         |
| Natural Brush/Forest                     | 215    | 99215010           | 4               |                | / <del></del> |  |             | <del></del>    | <u> </u>         |          |              |                | Fragment         |
| Vatural Brush/Forest                     | 215    | 99215014           | 9921501201      |                | . — —         |  |             | <del></del>    | <b></b>          | 0.25     | (lbs )       |                |                  |
| latural Brush/Forest                     | 216    | 99216002           |                 |                |               |  |             | <del></del>    |                  |          |              | ·              | ragment          |
| latural Brush/Forest                     | 218    |                    |                 |                |               |  |             | -+             | <b></b>          | 0.25 1   | (R)s         | ,              | (                |
| latural Brush/Forest                     | 216    | 99216005           |                 |                | Ī             | Magnetic Rock  |             | <del>-1+</del> |                  |          |              | , <del></del>  | ragment          |
| atural Brush/Forest                      | 218    | 99216007           |                 |                |               | AND PROPERTY OF THE PARTY OF TH |             | <del></del>    |                  |          |              | ,              |                  |
| latural BrushyForest                     | 216    | 99215009           |                 |                |               |  |             | <del></del>    |                  |          | ,            | <u> v</u>      |                  |
| atural BrustvForest                      | 214    | 99214003           | 9921400301      | <b>—</b> →     |               |  |             | <del>-1+</del> |                  |          |              |                | legnetic Rock    |
| atural BrushyForest                      | 214    | 99214004           | M21400301       |                |               |  |             |                |                  |          |              |                |                  |
| atural Brush/Forest                      | 214    |                    | 9921400501      |                |               |  |             |                |                  |          |              |                |                  |
| atural Brush/Forest                      | 209    | 99209030 9         | 4927400001      | <del></del> +  |               | <del></del>  |             | <del></del>    | +                | 0.25 lb  | .08          | Fr             | agment           |
| atural Brush/Forest                      | 209    | 99209031 9         | A20903001       | <del></del>    |               |  |             | -1             |                  |          |              |                | OTHERS.          |
| atural Brush/Forest                      | 209    | 99209032 9         | 9920903201      |                |               |  |             | _              |                  | 0.25 lb  |              | Fr             | agment           |
| tiural Brush/Forest                      | 209    | 99209033 99        | 920903201       |                |               |  |             |                | -+               | 0.5 10   |              |                | egment<br>egment |
| tural Brush/Forest                       | 209    | 99209035 99        | 9920903501      |                |               |  |             | <del></del>    | -+               | 0.5 tb   |              |                | egment<br>egment |
| nural Brush/Forest                       | 209    | 99209038 99        | 909090901       |                |               |  |             | +              | -+               | 0.5 lbi  |              |                | gment            |
| tural Brush/Forest                       | 209    | 99209037 99        | 0020002701      |                |               |  |             | +              |                  | 0.25 lbs |              | Fr             | dueut<br>Austr   |
| tural Brush/Forest                       | 209    | 99209039 99        | 9920903001      | <del></del>    |               |  | <del></del> | +              |                  | 0.5 lbs  |              |                | gment            |
| tural Brush/Forest<br>tural Brush/Forest | 209    | 99209040 99        | 9920904001      |                |               |  |             | +              |                  | 0.25 lbs |              |                | gment            |
| tural Brush/Forest                       | 200    | 99209041 993       | 9920904101      |                |               |  |             | 1              |                  | 0.25 lbs | 3            |                | Oment            |
| tural Brush/Forest                       | ZVB    | 99209042 993       | 920904201       |                |               |  |             | 1              | <del></del>      | 0.25 lbs |              |                | (ment            |
| ural BrustyForest                        | 209    | 99209044 992       | 920904401       |                |               |  |             | 1              | -+               | 0.5 lbs  |              | Frage          | gment            |
| ural Brush/Forest                        | 200    | 99209045 992       | 920904501       |                |               |  | <del></del> | +              | -+               | 0.5 lbs  |              | Free           | gment            |
| ural BrustyForest                        | 200    | 99209046 992       | 920904801       |                |               |  | <del></del> | 1              |                  | 0.25 the |              | Frage          | gment            |
| ural Brush/Forest                        | 209    | 99209047 992       | 4209047011      |                |               |  |             | 1              | <del></del>      | 0.25 tbs |              | Frage          | ment             |
| ural Brush/Forest                        | 209    | 99209049           |                 |                | <b></b>  _    |  |             |                | -+               | 0.5 lbs  |              | Frag           | ment             |
| ral Brush/Forest                         | 209    | 99209050 992       | /20905001       | <del></del>    |               |  | <del></del> | 1              |                  | 0.25 lbs |              | Fragn          | ment             |
| rai Brush/Forest                         | 213]   | 99213001 992       | 921300±n±       | <del></del>    |               |  |             |                |                  | U.231800 |              | Fragn          |                  |
| rai Brush/Forget                         | 213    | P9213002 9921      | 21300204        |                |               |  | <del></del> | 1              |                  | 0.25 fbs |              |                | 7                |
| ral Brush/Forest                         | 213 9  | 99213005 9921      | 21300501        | <del></del>    |               |  | <del></del> |                | _                | 0.25 lbs |              | Fragm          |                  |
| rei Double                               | 213 8  | 99213007 9921      | 21300701        |                |               |  |             |                |                  | 0.25 lbs |              | Fragm          | ment             |
| T CHEST T                                | 213 9  | 99213008 9921      | 21300601        |                | <del></del>   |  | <del></del> |                |                  | 0.5 lbs  |              | Fragm          | ment             |
|  |        |                    | /               |                |               |  |             |                |                  | 0.25 lbs | <del></del>  | Fragm          | ment             |
| 37304) ANEDREPORT Risk_dam               |        |                    |                 |                |               |  | <del></del> |                |                  | 0.25 lbs |              | Fragm          |                  |



|  |                      |                |  | DEPTH          | WEIGHT         | WEIGHT         | EXPLOSIVE                  | OBJ NAME                                  |
|--|----------------------|----------------|--|----------------|----------------|----------------|----------------------------|---|
| EASTING NORT                                     | THING DESCRIPTION    | COMMENTS       | DEPTH  | UNIIS          |                | liba .         | T                          | Fragment                                  |
|  |                      |                | <del>-  </del>                                     |                |                |                |                            |   |
|  |                      |                |  |                |                |                | <u> </u>                   | <del></del>                               |
|  |                      |                |  |                |                |                |                            | <u> </u>                                  |
|  |                      |                |  |                | T              |                |                            | <del> </del>                              |
|  |                      | <del>-</del>   |  |                |                | <u> </u>       |                            | <del> </del>                              |
|  |                      |                |  |                | 0.25           | lbs            |                            | Fragment                                  |
| <u> </u>   |                      |                |  |                |                | <u> </u>       |                            | <del></del>                               |
| <u> </u>   | Bir                  |                |  |                |                |                |                            | Magnetic Roc                              |
| <u> </u>   | Magnetic Rock        |                |  |                |                | lbs .          |                            | Fragment                                  |
|  |                      |                |  |                |                | ibs            |                            | Fragment                                  |
|  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| <del>                                     </del> |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| <u> </u>   |                      |                |  |                |                | 2 lbs          | <del></del>                | Fragment                                  |
|  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
|  |                      |                |  | <u> </u>       |                | 5 lbs          |                            | Fragment                                  |
|  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
|  |                      |                |  | 1              |                | 5 lbs          |                            | Fragment                                  |
|  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
|  |                      |                |  | 1              |                | 5 libs         |                            | Fragment                                  |
|  |                      |                |  |                |                | 5 lbs          | <u> </u>                   | Fragment                                  |
| <u> </u>   |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| <u> </u>   |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| 1  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| 1  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| 1  |                      |                |  |                |                | 5 lbs          |                            | Fragment                                  |
| 1 - +  |                      |                |  |                |                | .5 lbs         |                            | Fragment                                  |
| 1  |                      |                |  |                |                | 25 lbs         |                            | Fragment                                  |
| 1  |                      |                |  | Ī              |                | 25 lbs         |                            | Fragment                                  |
| 1  |                      |                |  |                |                | .5 lbs         |                            | Fragment                                  |
| 1  |                      |                |  | Τ              |                | 25 lbs         |                            | Fragment                                  |
| 1  |                      |                |  |                |                | 25 lbs         | _                          | Fragment                                  |
| 1  |                      |                |  |                |                | ).5 lbs        |                            | Fragment                                  |
| <u>"  — — — </u>                                 |                      |                |  |                |                | ).5 lbs        |                            | Fragment                                  |
| <u> </u>   |                      |                |  | Ţ              |                | 1 libs         |                            | Fragment                                  |
| 01   |                      |                | 1  |                |                | ).5 lbs        | \                          | Fragment                                  |
| )1   |                      |                |  |                |                | 0.5 lbs        |                            | Fragment                                  |
| )1   |                      |                |  |                |                | 1 lbs          |                            | Fragment                                  |
| N  |                      |                |  |                | 0.             | 75 lbs         |                            | Fragment                                  |
| 01   |                      |                |  |                |                |                |                            | <del></del>                               |
| _}_  | <del></del>          |                |  |                |                | .75 lbs        |                            | Fragment                                  |
| 01   |                      | <del></del>    |  |                |                | .25 lbs        | \                          | Fragment                                  |
| 01   |                      |                | <del>-     -   -   -   -   -   -   -   -   -</del> |                |                | .25 lbs        |                            | Fragment                                  |
| 01   |                      | <del></del>    |  |                | 0              | .25 lbs        |                            | Fragment                                  |
| 01   |                      | <del></del>    |  |                |                | 1 lbs          |                            | Fragment                                  |
|  |                      |                |  | $\neg$         | _ 0            | .25 lbs        |                            | Fragment                                  |
|  |                      |                | <del></del>  |                | 0              | .25 lbs        |                            | Fragment                                  |
| 01   |                      |                |  | _              | 0              | .25 lbs        |                            | Fragment                                  |
|  | 01<br>01<br>01<br>01 | 01<br>01<br>01 | 01<br>01<br>01                                     | 01<br>01<br>01 | 01<br>01<br>01 | 01<br>01<br>01 | 01 0.25 lbs<br>01 0.25 lbs | 01 0.25 lbs 01 0.25 lbs 0.25 lbs 0.25 lbs |

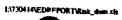
| SECTORS NAME         | GRIID ID | ANOMALY ID      | OBJECT ID     | EASTING          | NORTHING       | DESCRIPTION                           | COMMENTS                              | DEPTH  | DEPTH<br>UNITS | WEIGHT        | WEIGHT   |                   | _                |
|----------------------|----------|-----------------|---------------|------------------|----------------|---------------------------------------|---------------------------------------|--|----------------|---------------|----------|-------------------|------------------|
| atural Brush/Forest  | 204      | 99204009        | 9920400901    | T                |                | T                                     |                                       |  | UMIJA          | WEIGH I       | UNITS    | EXPLOSIVE         | OBJ NAM          |
| atural Brush/Forest  | 204      | 99204010        |               |                  |                | <del></del> -                         | <del></del>                           |  | <u> </u>       | 0.25          | Da .     | T                 | Fragment         |
| Hural Brush/Forest   | 204      | 99204011        |               |                  |                | <del></del>                           |                                       |  |                |               |          |                   |                  |
| atural Brush/Forest  | 204      | 99204012        | 9920401201    |                  |                |                                       |                                       |  |                |               |          |                   |                  |
| stural Brush/Forest  | 204      | 99204014        | 9920401401    |                  |                |                                       |                                       |  |                | 0.25          | bı       |                   | Fragment         |
| nust/Forest          | 204      | 99204015        | 9920401501    |                  |                |                                       | · · · · · · · · · · · · · · · · · · · |  |                | 0.25          | ibs      |                   | Fragment         |
| dural Brush/Forest   | 204      | 99204016        |               |                  |                |                                       | <del></del>                           |  |                | 0.75          |          |                   | Fragment         |
| tural Brush/Forest   | 204      |                 | 9920401801    |                  |                |                                       | <del></del>                           |  |                |               |          |                   |                  |
| Hural Brush/Forest   | 204      | 99204019        | D920401901    |                  |                |                                       |                                       |  |                | 0.25          | lbs      |                   | Fragment         |
| Numi Brush/Forest    | 204      | 99204020        | 9920402001    |                  |                |                                       | <del></del>                           |  |                | 0.25          | lbs:     |                   | Fragment         |
| itural Brush/Forest  | 204      | 99204021        | 9920402101    |                  |                |                                       | <del></del>                           |  |                | 0.25          | bs       |                   | Fragment         |
| tural Brush/Forest   | 204      | 99204023        | 9920402301    |                  |                |                                       |                                       |  |                | 0.25          | be       |                   | Fragment         |
| tural Brush/Forest   | 204      | 99204024        | 9920402401    |                  |                |                                       |                                       |  |                | 0.25          | lbe      |                   | Fragment         |
| tural Brush/Forest   | 204      | 99204025        | 9920402501    |                  |                |                                       | <del></del>                           |  |                | 0.25          | be       |                   | Fregment         |
| tural Brush/Forest   | 210      | 99210003        | 9921000301    |                  |                |                                       | <del></del>                           |  |                | 0.25          | be       |                   | Fragment         |
| tural Brush/Forest   | 210      |                 | 9921000401    | <del></del>      |                |                                       | <del></del>                           |  |                | 0.15          |          |                   | Fragment         |
| tural Brush/Forest   | 210      | 99210006        | 9921000601    |                  |                |                                       |                                       |  |                | 0.25          | be       |                   | Fragment         |
| tural Brush/Forest   | 210      | 99210007        | 9921000701    |                  |                |                                       |                                       |  |                | 0.75          | bs       |                   | Fragment         |
| tural Brush/Forest   | 210      | 99210010        | 9921001001    |                  |                |                                       | <del></del>                           |  |                | 0.25          | ba       |                   | Fregment         |
| ural Brush/Forest    | 210      | 99210011        |               |                  |                |                                       |                                       |  |                | 0.75          | bs       |                   | Fragment         |
| tural Brush/Forest   | 210      | 99210013        | 9921001301    |                  |                | <del></del>                           |                                       |  |                |               |          |                   |                  |
| tural Brush/Forest   | 210      | 99210014        | 9921001401    |                  |                | ·                                     |                                       |  |                | 0.25          | bs       |                   | Fragment         |
| ural Brush/Forest    | 210      | 99210017        |               |                  |                |                                       |                                       |  |                | 0.25          | bs       |                   | Fregment         |
| tural Brush/Forest   | 210      | 99210018        | 9921001801    |                  |                |                                       |                                       |  |                |               |          |                   | - Targett Target |
| ural Brush/Forest    | 210      |                 | 9921001901    | -                |                |                                       |                                       |  |                | 0.25          | bi       |                   | Fragment         |
| tural Brush/Forest   | 210      | 99210022        | 9921002201    |                  |                |                                       |                                       |  |                | 0.25          | be       |                   | Fragment         |
| ural BrusivForest    | 210      | <b>09210022</b> | 9921002202    |                  |                | · · · · · · · · · · · · · · · · · · · |                                       |  |                | 3.25          | bs       |                   | Fragment         |
| ural Brush/Forest    | 210      | 99210024        |               |                  |                |                                       |                                       |  |                | 1.5           | bs       |                   | Scree            |
| ural Brush/Forest    | 210      | 99210025        |               |                  |                | · .                                   |                                       |  |                | 0.75          | ba ·     |                   | Fragment         |
| ural Brush/Forest    | 204      | 99204003        |               |                  |                |                                       |                                       |  |                | 0.5           | bs b     |                   | ragment          |
| ural BrustyForest    | 204      | 99204005        |               |                  |                | <del></del>                           |                                       |  |                | 0.25          |          |                   | ragment          |
| dfill and Compositin | 178      | 99178002        | 9917800201    |                  | <del></del>    | <del></del>                           |                                       |  |                |               | -        | <del></del>       | 14-Autobrit      |
| dfill and Compositin | 178      | 99178003 (      |               | — — <del> </del> | <del></del> -  | <del></del>                           |                                       |  |                | 0.25          | 24       | <del></del>       | ragment          |
| diffi and Compostin  | 178      |                 | 9917800401    |                  | <del></del> +  |                                       |                                       |  |                | 0.25          |          |                   | ragment          |
| offil and Compostin  | 178      |                 | 917800501     |                  |                |                                       |                                       |  |                | 0.25          |          |                   | ragment          |
| trill and Compostin  | 178      | 99178006        |               |                  |                |                                       |                                       |  |                | 0.25          |          |                   | ragment          |
| fill and Compostin   | 178      | 99178007        |               | <del></del> +    |                |                                       |                                       |  |                | 0,25          |          |                   |                  |
| Mill and Compostin   | 178      | 99178008 6      |               | -+               |                | · · · · · · · · · · · · · · · · · · · |                                       | T  |                | 0.25          |          |                   | ragment          |
| rai Brush/Forest     | 201      |                 | 920100101     | -+               | <del></del>  . |                                       |                                       |  |                | 0,25          | _        |                   |                  |
| ral Brush/Forest     | 201      | 99201003 9      |               | <del></del>  -   | <del></del> +  |                                       |                                       |  | <del></del>    | 0.5           |          |                   | ragment          |
| ral Brush/Forest     | 201      |                 | 920100401     |                  |                |                                       |                                       | 1 1  |                | 0.5 H         |          |                   | ragment          |
| rai Brush/Forest     | 201      |                 | 920100501     | <del></del> +    |                |                                       |                                       | <del>                                     </del> | <del>- 1</del> | 1 1           |          |                   | ragment          |
| ral Brush/Forest     | 201      |                 | 920100601     | <del></del>      | <del></del>  - |                                       |                                       | 7-+  |                | 0.25          |          |                   | regment          |
| ral Brush/Forest     | 202      |                 | 920200201     | <del> -</del>    | ——∔            |                                       |                                       |  | <del></del>    | 1 2           |          |                   | ragment          |
| al Brush/Forest      | 202      |                 | 920200201     |                  |                |                                       |                                       | <del>-    </del>                                 | <del></del> +  | 118           |          | <u> </u>          | ragment          |
| ral Brush/Forest     | 203      | 99203001        |               |                  |                |                                       |                                       | <del></del>                                      |                | 0.25          |          |                   | regment          |
| ral Brush/Forest     | 203      | 99203002        | <del></del> + |                  | L              |                                       |                                       | <del></del>                                      |                | J.23 III      |          | _ <del></del>     | regment          |
| ral BrustyForest     | 203      | ******          | 920300301     |                  |                |                                       |                                       | <del></del>                                      |                | <del></del> + |          | <del></del> -     |                  |
|                      | <u> </u> | ************    | ezu300301     |                  |                |                                       |                                       | <del>-1+</del>                                   | <del></del>    | 0.0514        |          | <u>_</u> <u>_</u> |                  |
|                      |          |                 |               |                  |                | <del></del>                           |                                       |  |                | 0.25[lb       | <b>9</b> | F                 | ragment          |





|                        |         |                        |                          |  | _  |   |          |  | DEPTH  |                | WEIGHT          | EXPLOSIVE   | OBJNAME  |
|------------------------|---------|------------------------|--------------------------|--|--|---|----------|--|--|----------------|-----------------|---|--|
|                        |         |                        | 00 ECT #                 | EARTING  | NORTHING   | DESCRIPTION                             | COMMENTS | DEPTH  | UNITS  | WEIGHT         | UNITS           | EVALUSIAE   |  |
| ECTORS NAME            | GRID ID | ANOMALY ID             |                          |  | HOKITIMIS  |   |          |  |  | 0.25           |                 |   | Fragment   |
| latural Brush/Forest   | 203     | 99203008               | 9920300601               |  | <del> </del>                                       |   |          |  |  | 0.25           |                 | <del>                                      </del> | Fragment   |
| latural Brush/Forest   | 203     | 99203006               | 9920300801               | <del>                                      </del>  | <del> </del>                                       |   |          |  |  | 0.25           | RDS             | <del></del>                                       | Fragment   |
| latural Brush/Forest   | 203     |                        | 9920300901               | <b> </b>   | <del>                                      </del>  | <del> </del>                            |          |  | <u> </u>   |                |                 | <del> </del>                                      | Fragment   |
| latural Brush/Forest   | 203     | 99203010               | <u> </u>                 | <u> </u>   | <del> </del> -                                     | <del> </del>                            |          |  | <u> </u>   | 0.25           | ID9             | <del> </del>                                      | riagnicis.                                       |
| latural Brush/Forest   | 203     |                        | 992030130                | <del> </del>                                       | <del></del>  | <del> </del>                            |          |  | <b></b>  | <del> </del>   | <u> </u>        |   | Fragment   |
| Vatural Brush/Forest   | 203     | 99203014               |                          | .  | <del> </del>                                       |   |          |  | <b>↓</b>   | 0.25           |                 |   | Fragment   |
| latural BrustyForest   | 203     | 99203015               | 992030150                | <u>'</u>   | <del> </del>                                       | <del> </del>                            |          |  | <del>                                     </del> | 0.25           | lbs -           | <del>- </del>                                     | Fragment   |
| Natural Brush/Forest   | 203     |                        | 992030170                | <del> </del>                                       | +  |   |          |  | <del></del>                                      |                | lbs -           | +   | Fragment   |
| Vatural Brush/Forest   | 203     |                        | 992030190<br>992030210   | <del>  </del> -                                    | +  | <del></del>                             |          | _  | <b>↓</b>   | 0.2            | 103             | <del></del> -                                     | 11.00  |
| Vatural Brush/Forest   | 203     |                        |                          | <del>' </del>                                      | <del> </del>                                       |   |          |  | <del></del>                                      | <del> </del>   | <del> </del>    | +   | <del>                                     </del> |
| Vatural Brush/Forest   | 203     |                        |                          | +  | <del>                                       </del> |   |          |  | <u> </u>   | <del> </del>   | <del> </del>    | <del></del>                                       | <del> </del>                                     |
| Natural Brush/Forest   | 203     |                        |                          | +  | +  | † <del></del>                           |          |  | +  | 1- 02          | libs            | +   | Fragment   |
| Natural BrustVForest   | 203     |                        | 1 992040010              | 1  | <del>                                     </del>   | † · – – – – – – – – – – – – – – – – – – |          |  | +  |                | 5 lbs           | +   | Fragment   |
| Natural Brush/Forest   | 204     |                        | 992040020<br>2 992040020 | <del>'il</del> -                                   | <del>                                     </del>   |   |          |  | +  |                | 2 lbs           | <del>-}</del>                                     | Fragment   |
| Natural Brush/Forest   | 204     |                        | 1 991800310              | <del>il</del>                                      | <del></del>  |   |          |  | +  |                | 5 lbs           |   | Fragment   |
| Landfili and Compostic |         |                        | 2 991800320              |  | <del>                                     </del>   |   |          |  | +  |                | 5 lbs           | <del>- </del>                                     | Fragment   |
| Landfill and Composti  |         |                        | 1 991780010              | 11   | <del>- </del>                                      |   |          |  | +  |                | 1 lbs           |   | Scrap  |
| Landfill and Composti  |         |                        | 1 991780010              | 12   | <del>-1</del>                                      |   |          |  | +  | +              | <del>' </del>   | <del>- </del>                                     | 1  |
| Landfill and Composti  |         |                        |                          | <del></del>  | <del>                                     </del>   |   |          |  | +  | + -            | 1 libs          |   | Fragment   |
| Pond                   | 154     |                        | 0 991540100              | 11   | 1 — —  |   |          |  | + -  | <del></del>    | <del>' </del> - | 1   |  |
| Pond                   | 154     |                        |                          | <del>" </del> -                                    |  |   |          |  | +  | 0.3            | 9 fbs           |   | Fragment   |
| Pond                   | 15      |                        | 1 991770010              | <del>., </del>                                     |  |   |          |  | +  |                | 9 lbs           | <del>- </del>                                     | Fragment   |
| Landfill and Composti  |         |                        | 99177002                 | <del>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </del> | <del></del>  |   |          |  | +  |                | 9 lbs           | <del>-  </del>                                    | Fragment   |
| Landfill and Compost   |         | 7 9917700              | 3 99177003               | 11   | 1  |   |          |  | +  |                | 9 lbs           |   | Fragment   |
| Landfitt and Compost   | in 17   |                        | 5 99177005               | 01   |  |   |          |  | <del></del>                                      |                | 9 lbs           |   | Fragment   |
| Landfill and Compost   |         |                        | 08 99177008              | 11   |  |   |          |  |  |                | 9 lbs           |   | Fragment   |
| Landfill and Compost   |         |                        | 7 99177007               | 01   |  |   |          |  | +  |                | 39 libs         |   | Fragment   |
| Landfill and Compost   |         |                        | 08 99177008              | 01   |  |   |          |  |  |                | 9 lbs           |   | Fragment   |
| Landfill and Compost   | in 17   |                        | 10 99177010              | 01   |  |   |          |  | <del>-</del>                                     |                | 39 lbs          |   | Fragment   |
| Landfill and Composi   |         | 7 9917701              | 11 99177011              | 01   |  |   |          |  |  |                | 39 lbs          |   | Fregment   |
| Landfill and Composi   |         |                        | 12 99177012              | 01   |  |   |          | <del>_                                    </del> |  |                | 39 fbs          | -   | Fragment   |
| Landfill and Composi   |         |                        | 13 99177013              | 01   | -  |   |          | <del></del>                                      |  | <del> </del>   | 1 lbs           |   | Fragmen  |
| Landfill and Composi   |         |                        | 01 99160001              | 01   | <del>-  </del>                                     |   |          | <del></del>                                      | +  |                | 1 lbs           |   | Fragmen  |
| Landfill and Compos    |         |                        | 04 99180004              | 01   |  |   |          | <del></del>                                      | +  | <del>-  </del> | 1 lbs           |   | Fragmen  |
| Landfill and Compos    |         |                        | 05 99180005              | 01   |  |   |          |  |  |                | 1 lbs           | <del>-  </del>                                    | Fragmen  |
| Landfill and Compos    |         |                        | 07 99180007              | 01   |  |   |          | <del></del>                                      | _  |                | 1 libs          |   | Fragmen  |
| Landfill and Compos    |         | 991800                 | 05 99150000              | 01   |  |   |          |  | +-   | -              | 0,5 libs        |   | Fragmen  |
| Landfill and Compos    |         | 991800                 | 11 99180011              | 101  |  |   |          |  |  | <del>-1</del>  |                 |   |  |
| Landfill and Compos    |         | 991800                 |                          |  |  |   |          | <del>+</del>                                     | <del></del>                                      | +              |                 |   |  |
| Landfill and Compos    |         | 991800                 |                          | _  | <del></del>  |   |          |  | +  |                | 0.5 fbs         |   | Fragmer  |
| Landfill and Compos    |         |                        | 15 9918001               | 501  |  |   |          |  |  |                | 1 lbs           |   | Fragmer  |
| Landfill and Compos    |         | 80 991800              | 17 9918001               | 701  |  |   |          | <del></del>                                      |  | _              | 1 fbs           | _   | Fragmer  |
| Landfill and Compos    |         | 80 991800              | 19 9918001               | 901  |  |   |          | <del></del>                                      | +-   |                | 1 lbs           |   | Fragmer  |
| Landfill and Compos    |         | 80 991800              | 21 9918002               | 101  |  |   |          |  |  | <del>-  </del> | 1 lbs           |   | Fragmer  |
| Landfill and Compos    |         |                        | 9918002                  | 201  |  |   |          |  |  | <del>-  </del> | 1 lbs           |   | Fragme   |
| Landfill and Compos    |         |                        | 24 9918002               | 401  | <del></del>  |   |          |  |  | _              | 1 libs          | _   | Fragmer  |
| Landfill and Compos    |         | 80 991800<br>80 991800 | 027 9918002              | 701  |  |   |          | 11   |  |                | -1:-3           |   |  |

| SECTORS NAME          | GRID ID | ANOMALY ID  | OBJECT 1D              | EASTING   | NORTHING   | DESCRIPTION     | COMMENTS      |  | DEPTH          |                | WEIGHT   |  |             |
|-----------------------|---------|-------------|------------------------|---|--|-----------------|---------------|--|----------------|----------------|----------|--|-------------|
| andfill and Compostin | 180     |             | 9918002801             |   |  | T               | COMMENTS      | DEPTH  | UNITS          | WEIGHT         | UNITS    | EXPLOSIVE  | OBJ NAME    |
| andfill and Compostin | 180     |             | 9918002901             |   | <del></del>                                      | <del> </del>    |               |  |                | T - i          | lbs      | <del></del>  |             |
| ond                   | 154     | 99154005    | 9915400501             |   | <del>                                     </del> | <del> </del>    |               |  |                | +              | lbs      | <del> </del>                                       | Fragment    |
| ond                   | 154     | 99154008    | 9915400601             | <del> </del>                                      | <del></del> -                                    | <del> </del>    |               |  |                | 0.25           |          | <del>                                       </del> | Fragment    |
| ond                   | 154     | 99154007    | 9915400701             | <del> </del>                                      | <del>                                     </del> | <del></del>     |               |  |                |                | lbs      | <del>-</del>                                       | Fragment    |
| ond                   | 153     |             | 9915300101             |   | <del> </del>                                     | <u> </u>        |               |  |                |                | lbs      | <del>                                     </del>   | Fragment    |
| ond                   | 153     |             | 9915300201             |   | <del> </del>                                     | <u> </u>        |               |  |                | 0.25           |          | <del>                                     </del>   | Fragment    |
| Pond .                | 153     | 99153003    | ##15500201             | <del> </del> -                                    |  |                 |               | $\neg$   |                | 0.25           |          |  | Fragment    |
| ond                   | 153     |             | 9915300401             | <del>                                      </del> | <del> </del>                                     | <del></del>     |               |  |                | 1              |          | <del></del>  | Fragment    |
| ond                   | 153     | 99153006    | 9915300601             | <del>                                      </del> | <del></del>                                      | <del> </del>    |               |  |                | 0.25           | the      | <del>  </del>                                      | <u> </u>    |
| ond                   | 153     | 99153007    | 9915300701             | <del> </del>                                      | <del></del>                                      | <u> </u>        |               |  |                | 0.25           |          | <del> </del> -                                     | Fragment    |
| ond                   | 153     |             | 9915300901             | <del>  </del>                                     |  |                 |               |  |                | 0.25           |          | <del> </del>                                       | Fragment    |
| ond                   | 155     |             | 9915500101             |   |  |                 |               |  |                | 0.25           |          |  | Fragment    |
| ond                   | 155     |             | 9915500201             |   |  | · <del>_</del>  |               |  |                |                | Ibs      | <del>                                     </del>   | Fragment    |
| ond                   | 155     | 99155002    | 9915500301             | <b></b>   |  | <b></b>         |               |  |                | 0.25           |          | <del>                                     </del>   | Fragment    |
| ond                   | 155     | 99155003    | 9915500301             | 170300 A  | 44445  |                 |               | <del></del>                                      |                | 0.25           |          |  | Fragment    |
| ond                   | 155     | 99155004    | <del>98</del> 19300302 | 1103804   | 11111452   | 105 mm BE/Inert |               | <del>-</del> 4                                   | in.            | 25             |          |  | Fragment    |
| ond                   | 155     | 99155006    |                        | <del></del>                                       |  |                 | <u> </u>      | + - 1  |                | <del>!</del> * |          | <del></del>  | Ordnance    |
| ond                   | 155     |             | 9915500701             |   |  |                 | <u> </u>      | <del>-                                    </del> |                | <del></del>    |          | <del></del>  |             |
| ond                   | 155     |             | 9915500801             |   |  |                 |               |  |                | 0.1            | <u> </u> | <del></del>  |             |
| ond                   | 155     | 99155010    | 88 10000BU1            |   |  |                 |               | +  |                | 0.1            |          |  | Fragment    |
| ond                   | 155     | 00155013    | 9915501201             |   |  |                 |               | _  |                | 0.3            | 1.75     | <b>├─</b> ─  | Fragment    |
| ond                   | 155     |             | 9915501401             |   |  |                 |               | _  |                | <del></del>    |          | <del></del>  |             |
| ond                   | 155     |             | 9915501501             |   |  |                 |               | <del></del>                                      |                | 0.25           |          | <u> </u>   | Magnetic Ro |
| ond                   | 155     |             | 9915501601             |   |  |                 |               | <del> </del>                                     |                | 0.25           |          |  | Fragment    |
| ond                   | 155     |             | 9915501901             |   |  | Magnetic Rock   |               | <del></del>                                      |                | 0.25           |          |  | Fragment    |
| ond                   | 155     | 00155020    | 9915502001             |   |  |                 |               | <del>-   -  </del>                               |                | 0.25           |          | <del></del>  | Magnetic Ro |
| ond                   | 121     | 00111002    | 9912100201             |   |  |                 |               | <del>-   -  </del>                               |                | 0.25           |          |  | ragment     |
| ond                   | 121     | 98121004    | 9912100201             |   |  |                 |               | <del>-   -  </del>                               |                | 0.23           |          |  | ragment     |
| ond                   | 121     | 99121004    |                        |   |  |                 |               | <del>-   -  </del>                               |                | U. T           | US       |  | ragment     |
| ond                   | 124     | 99124001    |                        |   |  |                 |               | <del>-  -  </del>                                |                |                |          |  | Soil Layer  |
| ond                   | 124     |             |                        |   |  |                 |               | <del></del>                                      |                | 0.5            |          |  | regment     |
| ond                   | 124     | 99124002    |                        |   |  |                 |               | <del>-    </del>                                 |                | 0.1            |          |  | ragment     |
| ond                   | 124     | 99124005    |                        |   |  | <u> </u>        |               | <del>-    </del>                                 |                | 0.1            |          |  | ragment     |
| and .                 | 154     | 99124006 1  | W12400601              |   |  |                 | Contact > 4'  | + -+   |                | 0.25           | D6       |  | ragment     |
| nd                    | 154     | 99154001    | VV 15400101            |   |  |                 |               | <del></del>                                      |                | <del> </del> . |          |  | lagnetic Ro |
| nd -                  | 154     | 99154002    |                        |   |  |                 |               | <del></del>                                      |                | 0.5 t          |          |  | ragment     |
| nefarm                | 109     | 99154003    | 79 15400301            |   |  |                 |               | <del></del>                                      | <del></del> -+ | 0.25           |          |  | ragment     |
| refarm                |         | 99109036    | N 10903601             |   |  |                 | <del></del>   | ╼╁╼╌╼╁   |                | 0,25           |          |  | ragment     |
| refarm                | 109     | 99109037    |                        |   |  |                 |               | ╌┼╾┈┼┈   | <del></del> }  | 1              |          |  | ragment     |
| tural Brush/Forest    | 109     | 99109038 \$ | 910903801              |   |  |                 | <del></del>   | <del></del>                                      |                | 0.5            |          |  | ragment     |
| tural Brush/Forest    | 45      | 99045013 8  | NO4501301              |   |  |                 |               | <del></del>                                      |                | 0.25           |          |  | ragment     |
| tural Brush/Forest    | 45      | 99045014 9  |                        |   |  |                 |               | ╼┼╼╼╌╀   |                | 0.1            |          | F  | ragment     |
| teral Brush/Forest    | 45      | 99045015 9  | 904501501              |   |  |                 | <del></del>   | <del>-                                    </del> |                | 0.1            |          | F  | ragment     |
| tural Brush/Forest    | 45      | 99045016 9  | 904501601              |   |  |                 | <del></del>   | +-+  |                | 0.1            |          | F  | ragment     |
|                       | 45      | 99045017 9  |                        |   |  |                 |               |  |                | 0.1 1          |          | F  | ragment     |
| ural Brush/Forest     | 45      | 99045018 9  | 904501801              |   |  |                 | <del></del> - |  |                | 0.1            |          | F  | ragment     |
| ural Brush/Forest     | 45      | 99045019 9  |                        |   |  |                 | <del></del>   | <del></del>                                      |                | 0.3 R          |          |  | ragment     |
| ural BrustvForest     | 45      | 99045020 9  | 904502001              |   |  |                 |               | 1 1  | - 1            | 0.1            |          |  | ragment     |





|                      |                |                      |             |         |          |              |             |  | DEPTH  |        | WEIGHT   |  | CO I NAME      |
|----------------------|----------------|----------------------|-------------|---------|----------|--------------|-------------|--|--------|--------|----------|--|----------------|
|                      |                |                      |             |         | NORTHING | DESCRIPTION  | COMMENTS    | DEPTH  | UNITS  | WEIGHT | UNITS    | EXPLOSIVE  |                |
| ECTORS NAME          | GRID ID        | ANOMALY 50           | OBJECT ID   | EASTING | MUKIHMO  | DESCRIPTION  |             |  |        | 0.1    |          | <u> </u>   | Fragment       |
|                      | 45             | 99045021             | 9904502101  |         | i        |              |             |  |        | 0.1    |          | <u> </u>   | Fragment       |
| atural Brush/Forest  | 45             | 99045022             | 9904502201  |         |          |              |             | _  |        | 0.1    |          | 1  | Fragment       |
| atural Brush/Forest  | 45             | 99045023             | 9904502301  |         |          |              |             |  |        | 0.5    |          | ļ. <u> </u>  | Fragment       |
| atural Brush/Forest  | 109            | 99109002             | 9910900201  | ·       | <u> </u> | <u> </u>     |             |  |        | 0.25   |          | <del> </del>                                       | Fragment       |
| inefarm              | 109            | 99109003             | 9910900301  | ī       |          |              |             |  |        | 0.25   | _        | <del>                                       </del> | Fragment       |
| inefarm              | 109            | 99109004             | 991090040   |         |          |              |             |  |        | 0.25   | į        | <del></del>  | Fragment       |
| inefarm              | 109            | 99109008             | 991090060   | IL .——  | 1        |              |             |  |        | 0.25   |          | <del>                                     </del>   | Fragment       |
| inefarm              | 109            | 99109008             | 991090080   | 1       |          |              |             |  | $\Box$ | 0.15   |          |  | Fragment       |
| inefarm              | 109            | 99109010             | 991090100   | 1       |          |              |             |  |        | 0.25   |          | <del></del>  | Fragment       |
| inefarm              | 109            | 99109011             | 991090110   | 1       |          | <del></del>  |             |  |        | 0.15   | lbs      |  | Fragment       |
| ineferm              | 100            | 99109012             | 991090120   | 1       |          | ļ            |             |  |        |        | <u></u>  | <del> </del>                                       | Emanani        |
| inelarm              | 109            | 99109019             | 5           |         |          | <del> </del> |             |  |        | 0.25   |          |  | Fragment       |
| ineform              | 109            | 99109010             | 6 991090160 | 1       |          | ļ <u> </u>   |             |  |        |        | lbs      | <del></del>  | Fragment       |
| Pinefarm             | 109            | 9910901              | 6 991090180 | 1       | <u> </u> |              |             |  |        |        | lbs      | <del>                                     </del>   | Fragment       |
| Pinefarm             | 109            | 9910902              | 1 991090210 | 1       |          | <del> </del> |             |  |        |        | lbs      | <del></del>  | Fragment       |
| Pinefarm             | 100            | 9910902              | 2 991090220 | 11      |          | <u> </u>     |             |  |        | 0.25   | tbs      | <del> </del>                                       | Fragment       |
| Pinefarm             | 109            |                      | 3 991090230 | 1       | <u> </u> | <del> </del> |             |  |        |        | <u> </u> |  | Fenguera       |
| Pinefarm             | 109            |                      |             |         |          |              |             |  |        |        | bs       |  | Fragment       |
| Pinefarm             | 100            |                      |             | 11      | i        |              |             |  |        |        | 5 tbs    |  | Fragment       |
| Pinefarm             | 100            | 1                    | 9 991090290 |         |          |              |             | _  |        |        | 5 libs   |  | Fragment       |
| Pinefam              | 100            |                      | 0 99109030  | 21      |          |              |             |  |        |        | 5 libs   |  | Fragment       |
| Pinefarm             | 100            | 9910903              | 1 99109031  | 01      |          |              |             |  |        |        | 5 lbs    | _  | Fragment       |
| Pinefarm             | 10             |                      | 99109034    | 01      |          |              |             |  |        |        | 1 108    |  | Fragment       |
| Pinefarm             |                |                      | 10 99045010 | 01      |          |              |             |  |        |        | 1 lbs    |  | Fragment       |
| Natural Brush/Forest |                |                      | 11 99045011 | 01      |          |              |             |  |        |        | 2 lbs    |  | Fragment       |
| Natural BrustyForest |                | 990450               | 2 99045012  | 01      |          |              |             |  |        |        | 5 fbs    |  | Fragment       |
| Natural Brush/Forest |                | 2 9901200            | 09 99012009 | 01      |          |              |             |  |        |        | 5 lbs    |  | Fragment       |
| Natural Brush/Fores  | <del></del>    | 2 990120             | 10 99012010 | 01      |          |              |             |  |        |        | 5 fbs    |  | Fragment       |
| Natural BrustyFores  |                | 2 990120             | 11 99012011 | 01      |          |              |             |  |        | 0.2    | 5 lbs_   |  | Fragment       |
| Natural BrustyFores  |                | 2 990120             |             |         |          |              |             |  |        |        |          |  |                |
| Natural Brush/Fores  |                | 2 990120             |             |         |          |              |             |  |        |        | .5 lbs   |  | Fragment       |
| Natural Brush/Fores  |                | 2 990120             | 15 99012015 | 01      |          |              | <del></del> |  |        |        | 25 lbs   |  | Fragment       |
| Natural Brush/Fores  |                | 2 990120             | 16 99012010 | 301     |          |              |             |  |        |        | 25 lbs   |  | Fragment       |
| Natural Brust/Fores  |                | 2 990120             | 18 99012018 | 901     |          |              | <del></del> |  |        |        | 25 lbs   |  | Fragment       |
| Natural Brush/Fores  | <u> </u>       | 990120               | 19 9901201  | 901     |          | <del></del>  |             |  |        |        | ).5 lbs  |  | Fragment       |
| Natural Brush/Fores  |                | 990120               | 20 9901202  | 001     |          |              |             | — <del>                                     </del> |        |        | ).5 fbs  |  | Fragment       |
| Natural Brush/Fores  |                | 990120               | 21 9901202  | 101     |          |              | <del></del> |  |        | 0,     | 25 lbs   |  | Fragmen        |
| Natural Brush/Fores  | **             | 12 990120            | 24 9901202  | 401     |          |              |             | <del>   -</del>                                    |        |        |          |  |                |
| Natural Brush/Fores  |                | 10 990100            |             |         |          |              |             |  |        |        |          |  |                |
| Natural Brush/Fore   |                | 10 990100            | 002         |         |          |              | <del></del> |  |        | . 0    | 25 lbs   |  | Fragmen        |
| Natural Brush/Fore   | <del>~~~</del> | 10 990100            | 003 9901000 | 301     |          |              |             |  |        |        |          |  |                |
| Natural Brush/Fore   |                | 10 99010             |             |         |          |              |             |  | _      | 0      | .25 lbs  |  | Fragmer        |
| Natural Brush/Fore   | <u> </u>       | 10 99010             | 008 9901000 | 801     |          |              |             |  |        |        |          |  | <del>-  </del> |
| Natural Brush/Fore   |                | 10 99010             |             |         |          |              |             |  | $\neg$ |        | 0.5 lbs  |  | Fragmer        |
| Natural Brush/Fore   | <del> 1</del>  | 10 99010             | 012 9901001 | 201     |          |              |             | <del></del>  |        |        |          |  |                |
| Natural Brush/Fore   |                | **                   |             |         |          |              |             | <del></del>  | _      | - 0    | .25 lbs  |  | Fragmer        |
| Natural BrustyFore   |                | 10                   | 014 9901001 | 401     |          |              |             |  | _   _  | $\neg$ |          |  |                |
| Natural Brush/Fore   | yst į          | 10 99010<br>10 99010 |             |         |          |              |             |  |        |        | _        |  | -              |

| ECTORS NAME         | CHOOL ID    | ANOMALY ID              | OBJECT ID   | EASTING     | NORTHING | DESCRIPTION |             |                  | DEPTH          |          | WEIGHT   |              |             |
|---------------------|-------------|-------------------------|-------------|-------------|----------|-------------|-------------|------------------|----------------|----------|----------|--------------|-------------|
| atural Brush/Forest | 10          | 99010019                | 9901001901  |             |          | DESCRIPTION | COMMENTS    | DEPTH            | UNITS          | WEIGHT   |          | EXPLOSIVE    | CO I MANE   |
| atural Brush/Forest | 10          |                         | 9901002001  | <b></b>     | ļ        |             |             |                  | <del></del>    | 7        |          |              | ODS RECEIVE |
| atural Brush/Forest | 10          |                         | 9901002101  |             | <b> </b> |             |             |                  | <del></del> -  | 0.25     |          |              | Fragment    |
| atural BrustyForest | 45          | 99045001                | 9904500101  |             |          |             |             |                  | <del> </del>   | 0.25     |          | <del> </del> | Fragment    |
| etural BruslyForest | 45          | 99045003                | 9904500301  |             |          |             |             | <del></del>      | <del> </del> - | 0.25     |          | <b></b>      | Fragment    |
| stural Brush/Forest | 45          | 99045005                | 9904500501  |             |          |             |             | <del> </del> -   | ├              | 0.1      |          | <u> </u>     | Fragment    |
| Stural Brush/Forest | 45          | 99045000                | 9904500801  |             |          |             |             | <del></del>      | <del></del>    | 0.1      |          |              | Fragment    |
| stural Brush/Forest | 45          | 99045007                | 9904500701  |             |          |             |             | <del></del>      | <del> </del>   | 0.1      | _        |              | Fragment    |
| dural Brush/Forest  | 45          | 99045008                | 9904500601  |             |          |             |             |                  |                | 0.1      |          |              | Fragment    |
| tural Brush/Forest  | 12          | 99012006                | 9901200601  |             |          |             |             |                  |                | 0.1      | IDS .    |              | Fragment    |
| itural Brush/Forest | 12          | 99012006                | 9901200601  |             |          |             |             | <del>- +</del> - |                | 0.1      |          |              | Fragment    |
| tural Brush/Forest  | 37          | 99037004                | 9903700401  |             |          |             |             | <del></del>      |                | 0.25     |          |              | Fragment    |
| Nural Brush/Forest  | 37          | 99037005                | B903700501  |             |          |             |             | <del></del>      |                | 0.25     |          |              | Fragment    |
| tural Brush/Forest  | 37          | 99037006                |             |             |          |             |             | <del></del>      |                | 0.25     |          |              | Fragment    |
| tural BrustyForest  | 37          |                         | 9903700801  |             |          |             |             | <del>  </del>    |                | 0.25     | DL       | LI           | Fragment    |
| tural Brush/Forest  | 37          | 99037000                | 9903700901  | <b></b>     |          |             |             | <del></del>      |                | <u> </u> |          |              |             |
| tural Brush/Forest  | 37          | 99037010                | 9903701001  |             |          |             |             | <del></del>      |                | 0.25     |          |              | Fragment    |
| tural Brush/Forest  | 37          | 99037011                | 9903701101  |             |          |             |             | <del></del>      |                | 0.25     |          |              | Fragment    |
| tural Brush/Forest  | 37          | 99037017                | 9903701301  |             |          |             |             | <del></del>      |                | 0.25     |          |              | Fragment    |
| tural BrustyForest  | 37          | 99037014                | 9903701401  |             |          |             |             | <del></del>      |                | 0.25     |          |              | ragment     |
| ural Brush/Forest   | 37          | 99037015                | 9903701501  |             |          |             |             | <del></del>      |                | 0.25     |          |              | ragment     |
| tural Brush/Forest  | 37          | 99037017                | 9903701301  |             |          |             |             | ╼╂┈╾┈┼           |                | 0.25     |          |              | Fragment    |
| ural Brush/Forest   | 37          | 99037018                | 0007701701  | <del></del> |          |             |             | <del></del>      |                | 0.25     |          |              | ragment     |
| ural Brush/Forest   | 59          | 99069001                |             |             |          |             |             | <del></del>      |                | 0.25     |          |              | ragment     |
| ural Brush/Forest   | 69          | 99069002                |             |             |          |             |             | <del></del>      |                | 0.25     |          |              | ragment     |
| ural Brush/Forest   | 59          | 99069004                | 000000000   |             |          |             |             | ╼┼╼╌-╃           |                | 0.25     |          | F            | ragment     |
| ural Brush/Forest   | 69          | 99069004                |             |             |          |             |             | ╼╁╼╌┽            |                | 0.25     | ·        |              | ragment     |
| ural Brush/Forest   | 89          | 99089005                |             |             |          |             |             | ╼┼╼╾┽            |                | 1.5      |          | F            | ragiment    |
| ural Brush/Forest   | 69          | 99069006                | 0000000000  |             |          |             |             | ╼╁╼╾╼╀           | -              | 0.5      |          |              | icrap       |
| ral Brush/Forest    | 89          | 99069007                | 99009000001 |             |          |             |             | ╼╂╼╾╼┼           |                | 0.25     |          | F            | ragment     |
| ral Brush/Forest    | 70          | 99070002                | 9909900/01  |             |          |             |             | ╼┾╼╌╼╉╴          | -              | 0.5 R    |          | F            | regment     |
| ral Brush/Forest    | 70          | 99070004 8              | 9907000201  |             |          |             |             | ╼┾╾╼┼            |                | 0.25     |          |              | regment     |
| and BrustyForest    | 70          | 99070005 9              | 007000604   | +           |          |             |             | ╍╂╾╼╼╁╴          |                | 0.5      |          | F            | regment     |
| ral Brush/Forest    | 70          |                         | 907000801   |             |          |             |             | <del></del>      |                | 0.5      |          | F            | ragment     |
| ral BrustyForest    | 70          |                         | 1907000901  |             |          |             |             | <del></del>      |                | 0.5      |          |              | ragment     |
| ral BrustyForest    | 72          |                         | 907200201   |             |          |             |             | ╼╀╼╾╌╂╴          |                | 1  t     | <u> </u> | s            | ствр        |
| ral Brush/Forest    | 72          |                         | 907200301   |             |          |             |             | ╼╁╼╌╼╂╴          |                | 0,5 lb   |          |              | regment     |
| ral Brush/Forest    | 72          | 99072008 9              |             |             |          |             |             | ╼╂╼┈╼┼╴          |                | 0.25 ab  |          |              | ragment     |
| ral Brush/Forest    | 72          | 99072007 9              | 007200254   |             |          |             |             | ╼╂┈╼╾╂┈          |                | 0.5      |          |              | regment     |
| rai Brush/Forest    | 72          | 99072009 9              | 907200004   |             |          |             |             | <del></del>      | <u>-</u>       | 0.25 b   |          | F(           | agment      |
| al Brush/Forest     | 72          | 99072011 9              | 907204404   |             |          |             |             | ╼╂╼╼╌╅╴          | -+             | 0.25 lb  |          |              | agment      |
| al Brush/Forest     | 12          | 99012001 9              | 90/201101   |             |          |             |             | ╼╁╼╾╼╃╴          |                | 0.5 lb   |          |              | agment      |
| al Brush/Forest     | 12          | 99012002 99             | 001200004   |             |          |             |             | ╼╁╌              |                | 0.5 lb   |          | F            | agment      |
| al BrustyForest     | 12          | 99012003 99             | 001200201   |             |          |             | <del></del> | ╼╼╌╄╴            |                | 0.5 lb   |          |              | agment      |
| al Brush/Forest     | 37          | 00017004                | 001200301   |             |          |             |             | ┱╼╌              |                | 0.75 lb  |          |              | agment      |
| al BrustVForest     | 37          | 99037001 99             |             |             |          |             |             | ╼╂╼╼═┵╌          |                | 0.5 lb   |          |              | agment      |
| a Brush/Forest      | 37          | 99037002 90<br>99037003 | 03/00201    |             |          |             | ···         | ╍┼╼╌╼╌┞╌         |                | 0.25 lb  |          |              | agment      |
| al Brush/Forest     | 41          |                         | 24400:=-    |             |          |             | <del></del> | ╌┢╌╌╼┠╼          |                | 0.5 lb   |          | Fr           | agment      |
|                     | <del></del> | 99041001 99             | FU4 (U0101) |             |          |             | <del></del> | <del></del>      |                |          |          |              |             |



|                      |         |             |                        |   |   | · · ·  |             |  | DEPTH        |  | WEIGHT      |  |                      |
|----------------------|---------|-------------|------------------------|---|---|--|-------------|--|--------------|--|-------------|--|----------------------|
|                      | CRID ID | ANOMAI V ID | OBJECT ID              | EASTING   | NORTHING  | DESCRIPTION                                      | COMMENTS    | DEPTH  | UNITS        | WEIGHT   | UNITS       | EXPLOSIVE  |                      |
| ECTORS NAME          |         |             |                        |   | T   | Γ  |             |  |              | 0.5  | lbs         | <u> </u>   | Fragment             |
| atural Brush/Forest  | 41      | 99041002    | 9904100201             | <del>├                                    </del>    | <del> </del>                                      |  |             |  |              | <del> </del>                                     |             |  | Scrato               |
| latural Brush/Forest | 44      | 99044001    | 9904400201             | <del>                                      </del>   | <del>1</del>                                      | Barbed wire                                      |             |  | 1            | 0.25   |             | <del> </del>                                     | Fregment             |
| atural Brush/Forest  | 44      | 99044002    | 9904400301             | <del>                                     </del>    | <del> </del>                                      |  |             | i  |              |  | ibs         | <del> </del>                                     |                      |
| atural BrustvForest  | 44      |             |                        |   | <del>                                     </del>  |  |             |  | <u> </u>     | 0.25   |             |  | Fragment<br>Fragment |
| latural Brush/Forest | 43      |             | 9904300101             |   | <del> </del>                                      |  |             |  |              | 0.25   | ID8         | <del></del>                                      | LIGHT                |
| latural Brush/Forest | 43      |             | 9904300201             | <del> </del>  | <del>                                      </del> |  |             |  | <u> </u>     | <del> </del>                                     | -           | <b>_</b>   | Fragment             |
| letural Brush/Forest | 43      | 99043003    |                        | <del> </del>  | <del> </del>                                      |  |             |  | <u> </u>     |  | 10a         | <del></del>                                      | Fragment             |
| latural Brush/Forest | 42      | 99042002    | 990420020<br>990420030 |   | <del> </del>                                      |  |             |  | <u> </u>     | 0.15   |             |  | Fragment             |
| latural BrustvForest | 42      |             | 990420030              | <del> </del>  | <del> </del>                                      |  |             |  | <u> </u>     | 0.2  |             | 1  | Fragment             |
| Natural Brush/Forest | 42      |             | 990420060              | <del> </del>  | <del>                                     </del>  |  |             |  |              | 1 0.8  | lbs         | <del> </del>                                     | riagnion <u>t</u>    |
| latural Brush/Forest | 42      |             |                        | <del>' </del>                                       | <del> </del>                                      |  |             |  | 1            | <del>                                     </del> | <u> </u>    | <del>                                     </del> | Fragment             |
| latural Brush/Forest | 42      |             | 990380010              | <del>.                                      </del>  | <del>                                     </del>  |  |             |  | <del> </del> |  | lbs         | +  | Fragment             |
| latural Brush/Forest | 38      | 99038001    | 990380010              | <del>;                                       </del> | +   |  |             |  | <del> </del> |  | lbs         | <del> </del>                                     | Fragment             |
| latural Brush/Forest | 38      | 99038002    | 990390010              | <del>;                                      </del>  | <del> </del>                                      |  |             |  | 1            |  | lbs         | 1  | Fragment             |
| Natural Brush/Forest | 39      |             | 990390030              | <del>il                                      </del> | +   |  |             |  | <b>↓</b>     |  | lbs_        | <del> </del>                                     | Fragment             |
| Natural Brush/Forest | 39      | 9903900     | 990390040              | <del>11</del>                                       | <del> </del>                                      |  |             |  |              |  | ibs         | <del> </del>                                     | Fragment             |
| Natural Brush/Forest | 39      |             | 990390050              | 4   | <del></del>                                       |  |             |  | <u> </u>     |  | 5 lbs       | <del></del>                                      | Fragment             |
| Natural Brush/Forest | 39      |             |                        |   | <del></del>                                       |  |             |  |              |  | 5 lbs       | <del></del>                                      | Fragment             |
| Natural Brush/Forest | 39      | 9903900     | 990390090              | <del>' </del>                                       | +   |  |             |  |              |  | 5 libs      | <del> </del>                                     | Fragment             |
| Natural Brust/Forest | 39      |             | 990390090              |   | <del>-  </del>                                    |  |             |  | 1            |  | 5 ibs       | <del> </del>                                     | Fragment             |
| Natural Brush/Forest | 39      |             | 1 990390110            |   |   |  |             |  |              |  | 5 lbs       | <del>                                     </del> |                      |
| Natural Brush/Forest | 39      |             | 4 990390140            | <del>'  </del>                                      | <del>- </del>                                     |  |             | <u>,                                    </u> |              |  | 5 lbs       | <del></del>                                      | Fragment             |
| Natural Brush/Forest | 39      | 9903901     | 5 990390150            | <u> </u>  | <del>                                     </del>  |  |             |  |              | 0.2  | 5 lbs       | <del>-  </del>                                   | Liminar              |
| Natural BrustVForest | 39      |             | 8 990390160            | <del>" </del>                                       | <del>-1</del> -                                   |  |             |  |              |  | <del></del> |  | 5                    |
| Natural Brush/Forest | 39      |             |                        | <del></del>   | <del></del>                                       | <del>                                     </del> |             |  |              |  | 5 lbs       |  | Fragment             |
| Natural Brush/Forest | 39      |             | 0 990390200            | <del>"                                      </del>  | <del>                                     </del>  |  |             |  |              |  |             |  |                      |
| Natural Brush/Forest | 39      |             |                        | <del></del>   | <del> </del>                                      | <del>                                     </del> |             |  |              |  | 5 lbs       | _  | Scrap                |
| Natural Brush/Forest | 40      |             | 1 990400010            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,              | <del></del>                                       |  |             |  |              |  | 5 lbs       |  | Fragment             |
| Natural BrusivForest | 40      |             | 4 990400040            | <del>"                                       </del> |   |  |             |  |              | 0.3  | 5 lbs       |  | Fragment             |
| Natural Brush/Forest | 40      |             | 5 990400050            |   |   | <del> </del>                                     |             |  |              |  | 1 lbs       |  | Fragment             |
| Natural Brush/Forest | 34      |             | 8 990340180            | <u> </u>  | <del>-</del>                                      | <del>- </del>                                    | <del></del> |  |              |  | 1 lbs       |  | Fragment             |
| Natural Brush/Forest | 34      |             | 9 99034019             | <del>2] </del>                                      | <del></del>                                       | <del>- </del>                                    |             |  |              |  | 2 lbs       |  | Fragment             |
| Natural Brush/Forest | 34      |             | 1 99034021             | <u> </u>  | _ <del> </del> -                                  |  |             |  |              | 0.:  | 25 lbs      |  | Fragment             |
| Natural Brush/Forest | 3:      |             | 8 99032008             | <u> </u>  |   |  |             |  |              |  |             |  |                      |
| Natural BrustyForest |         |             |                        |   |   |  |             |  |              |  |             |  | <del></del>          |
| Natural Brush/Fores  | 3:      | 2 9903201   |                        |   |   |  |             |  |              | 0.   | 25 lbs      |  | Fragment             |
| Natural Brush/Fores  | 3:      | 2 9903201   | 3 99032013             | 01  |   |  |             |  |              | 0.   | 25 lbs      |  | Fragment             |
| Natural Brush/Fores  | 3       |             | 6 99032016             |   |   | <del></del>                                      | <del></del> |  |              |  | 1 (1):8     |  | Fragmen              |
| Natural Brush/Fores  |         | 2 990320    | 7 99032017             | 01  |   | <del> </del>                                     |             | <del></del>                                  |              | Ō.   | 25 lbs      |  | Fragmen              |
| Natural Brush/Fores  | 3       |             | 99032019               | 01  |   | <del> </del> -                                   |             |  |              |  |             |  |                      |
| Natural Brush/Fores  |         |             |                        |   |   | <del> </del>                                     | <del></del> |  |              |  |             |  |                      |
| Natural Brush/Fores  |         | 2 990320    | 23                     | _   |   | <del></del>                                      |             |  |              |  | ).5 lbs     |  | Fragmen              |
| Natural Brush/Fores  |         | 3 990330    | 99033001               | 01  |   |  |             | <del></del>                                  | _            | 2  | 25 lbs      |  | Fragmen              |
| Natural Brush/Fores  | `       | 3 990330    | 03 99033003            | 01  |   |  |             | <del></del>                                  |              |  | 1.5 lbs     |  | Fragmer              |
| Natural Brush/Fores  |         | 3 990330    | 04 99033004            | 01  |   |  | ·           | <del> i</del>                                | _            |  | 1.5 lbs     |  | Fragmer              |
| Natural Brush/Fores  |         | 3 990330    |                        |   |   |  |             |  |              |  | 1,5 lbs     |  | Fragmer              |
| Natural BrustyFores  |         |             | 06 99033006            | 301   |   |  |             | <del> </del>                                 | _            | _{   | 2 lbs       |  | Fragmer              |
| Natural Brush/Fores  |         |             | 01 99036001            |   |   |  |             |  |              |  |             |  | <del> </del>         |

| SECTORS NAME   | GRID ID | ANOMALY ID | OBJECT ID   | EASTING        | NORTHING | DESCRIPTION  | COMMENTS      | DEPTH   | DEPTH  | WEIGHT      | WEIGHT        | PVV cor÷    |               |
|--|---------|------------|-------------|----------------|----------|--------------|---------------|---|--|-------------|---------------|-------------|---------------|
| latural Brush/Forest   | 36      | 99036003   | 9903800301  |                | r        |              |               | - CCF 101   | VIWIS  | WEIGH!      | UMIS          | EXPLOSIVE   | OBJ NAM       |
| latural Brush/Forest   | 38      | 99036004   | 9903600401  |                |          | <del></del>  | ·             |   |  | 0.5         | lbs           |             | Fragment      |
| latural Brush/Forest   | 36      | 99036005   | 9903600501  | <del></del>    | —-·      | <del></del>  |               |   |  | 0.25        | lba           |             | Fragment      |
| latural Brush/Forest   | 36      | 99036005   | 9903600502  |                |          | Barbed wire  |               |   |  | 1           | lbs:          |             | Fragment      |
| latural BrustyForest   | 36      | 99036006   |             | <del></del>    |          | COLUMN WAS   |               |   |  | 1           | lbs           |             | Scree         |
| atural Brush/Forest  | 36      | 99036006   | 9903600602  |                |          |              |               |   |  | 0.25        | ibe           |             | Fragment      |
| stural BrustyForest  | 36      | 99036006   |             | · · · ·        |          |              |               |   |  | 1           | lbe           |             | Scrap         |
| stural Brush/Forest  | 34      | 99034001   | 9903400101  |                |          |              |               |   |  | 3           | ibs           |             | Scrap         |
| atural Brush/Forest  | 34      | 09034002   | 9903400201  | -              |          |              |               |   |  | 1.5         | lbs.          |             | Fragment      |
| atural BrustyForest  | 34      | 99034003   | 9903400301  |                |          |              | <del>  </del> |   |  | 1           | bs            |             | Fragment      |
| aturai Brush/Foresi  | 34      | 99034005   | 9903400501  |                |          | <u> </u>     |               |   |  | 2           | bs            |             | Fregment      |
| atural Brush/Forest  | 34      | 99034007   | 9903400701  |                |          |              |               |   |  |             | bs            |             | Fregment      |
| stural Brush/Forest  | 34      | 99034008   | 9903400801  |                |          | <del>-</del> |               |   |  | 1           | bu            |             | Fragment      |
| atural Brush/Forest  | 34      |            | 9903401001  |                |          |              |               |   |  | 2           | İbs           |             | Fregment      |
| atural Brush/Forest  | 34      |            | 9903401201  |                |          |              |               |   |  | 1.5         | lbs           |             | Fragment      |
| stural Brush/Forest  | 34      |            | 9903401401  |                |          |              |               |   |  | 2           | ibe           |             | Fragment      |
| etural Brush/Forest  | 34      |            | 9903401501  |                |          | <del></del>  |               |   |  | 2           | lbş           |             | Fragment      |
| stural Brush/Forest  | 34      |            | 9903401701  |                |          |              |               |   |  | 2           | lbs           |             | Fragment      |
| stural Brush/Forest  | - 6     |            | 9900600101  | <del></del>    |          | <del></del>  |               |   |  | Ž           | ibs           |             | Fragment      |
| stural Brush/Forest  | 6       |            | 9900800301  |                |          |              |               |   |  | 0.5         | lbs           |             | Fragment      |
| nefarm   | 46      | 99048001   |             |                |          | <del></del>  |               |   |  | 1           | lbs           |             | Fragment      |
| nefarm   | 46      | 99048002   |             | <del></del>    |          |              |               |   |  |             |               |             | - imprime it  |
| nefarm   | 46      |            | 9904500301  | <del></del>    |          |              |               |   |  |             |               |             | <del>-</del>  |
| netarm   | 46      |            | 9904800501  |                |          |              |               |   |  | 0.2         | Da .          |             | Fragment      |
| refarm   | 46      |            | 9904600601  |                |          |              |               | $\bot$  |  | 0.4         |               |             | Fragment      |
| nefarm   | 46      |            | 9904600701  | <del>-</del> - |          |              |               |   |  | 0.1         |               |             | Fragment      |
| refarm   | 48      |            | 9904800901  |                |          |              |               |   |  | 0.2         |               |             | Fragment      |
| nefarm   | 46      |            | 9904601001  | <del></del>    |          |              |               |   |  | 0.1         |               |             | Fragment      |
| tural Brush/Forest   | 45      |            | 9904500201  | <del></del>    |          |              |               |   |  | 0.1         |               |             | ragment       |
| nd   | 122     |            | 9912200101  |                |          |              |               |   |  | 0.11        |               |             | Fragment      |
| nd   | 122     |            | 9912200301  |                |          |              |               |   |  | 0.25        |               |             | regment       |
| nd   | 122     | 99122005   | ** 12200301 |                |          | <u> </u>     | Burster Tube  |   |  | 11          |               |             | regment       |
| nd   | 122     |            | 9912200701  |                |          | <u> </u>     |               |   |  | <del></del> | <del></del> + | <del></del> | Telephone III |
| nd   | 122     |            | 9912200801  | <del></del> +  |          |              | Barbed Wire   |   |  | 0.25        | he            |             |               |
| nd   | 122     | 99122009   |             |                |          |              |               |   | <del></del>                                      | 0.25        |               |             | crep          |
| ndfill and Compostin   | 179     |            | 9917900101  |                |          |              |               | <del>                                     </del>  |  | 0.25        |               |             | ragment       |
| ndiffit and Compostin  | 179     | 99179002   |             |                |          |              |               | <del>                                     </del>  |  | 0.33 H      |               |             | ragment       |
| rdfill and Compostin   | 179     |            |             | —              |          |              |               | 1   |  | 0.33        |               |             | ragment       |
| tural Brush/Forest   | 29      |            | 9917900301  |                |          |              |               | <del>                                     </del>  |  | 0.33        |               |             | ragment       |
| tural Brush/Forest   | 29      |            | 9902900101  |                |          |              |               | <del>-                                     </del> |  | 11          |               |             | regment       |
| ural Brush/Forest  | 29      | 99029002 1 |             |                |          |              |               | -   | <del>-  </del>                                   | 110         |               |             | regment       |
| ural Brush/Forest  | 29      |            | 9902900301  |                |          |              |               | <del></del>                                       | <del>-                                    </del> | 1 1         |               |             | ragment       |
| dfill and Compostin  | 179     | 99029004 ( | MUZNUU401   | <del></del> -  |          |              |               | ╌╂  |  | 110         |               |             | ragment       |
| dfill and Compostin  |         | 99179007 ( |             |                |          |              |               | <del>'    </del>                                  | <del></del> +                                    | 0.33 1      |               |             | regment       |
| dill and Compostin   | 179     | 99179009   |             |                |          |              |               | +   | -+   |             |               |             | ragment       |
| dill and Composiin   | 179     | 99179010   |             |                |          |              |               | ╅╼╾╀  | <del></del>                                      | 0.33 2      |               |             | ragment       |
| and Compostin  | 179     |            | 917901101   |                |          |              |               | ╌┼  |  | 0.33 1      |               |             | ragment       |
| Intel Brush/Forest   | 170     | 99179013 9 |             |                |          |              |               | <del>                                     </del>  |  | 0.33        |               |             | ragment       |
| A SHOWN TO THE REAL PROPERTY OF THE PERTY OF | 3       | 99003001 9 | /900300101  | 1              |          |              |               |   |  | 0.33 to     |               | F           | ragment       |



|                      |  |            |             |            | Non-Timic    | DESCRIPTION  | COMMENTS    | DEPTH       | DEPTH<br>UNITS | WEIGHT   | WEIGHT<br>UNITS | EXPLOSIVE  |                      |
|----------------------|--|------------|-------------|------------|--------------|--|-------------|-------------|----------------|----------|-----------------|--|----------------------|
| ECTORS NAME          | GRID ID  |            |             |            | NORTHING     | DESCRIPTION  | <del></del> |             |                |          | lbs             |  | Fragment<br>Fragment |
| atural Brush/Forest  | 3  | 99003002   | 990030020   | <u> </u>   |              |  |             |             |                |          | ibs             | <del>                                     </del> | Fragment             |
| atural BrustVForest  | <del> </del>                                     | 99003003   | 990030030   | l <b>ì</b> |              | <del> </del>                                       |             |             | <u> </u>       |          | lbs             | <del>                                     </del> | Fragment             |
| atural Brush/Forest  | 3  | 99003005   | 990030050   | <u> </u>   | <u> </u>     |  |             |             |                |          | Ibs             | <del>                                     </del> | Fragment             |
| atural Brush/Forest  | 1 3  | 99003008   | 990030080   | il         |              | <del>                                       </del> |             |             | <u> </u>       |          | lbs             | <del> </del>                                     | Fragment             |
| atural Brush/Forest  | 3  | 99003006   | 990030090   | <u> </u>   | ļ. —         |  |             |             | <u> </u>       |          | lbs             | 1  | Fragment             |
| atural Brush/Forest  | - 6  | 99006004   | 990060040   | 1          |              | <del></del>  |             |             | <u> </u>       |          | lbs             | <del> </del>                                     | Fragment             |
| latural Brush/Forest | <del>                                     </del> | 99006005   | 990060050   | 1]         | <b></b>      |  |             |             |                | 0.9      | ibs             | 1  | Tragnam              |
| tatural BrustyForest | <del>                                     </del> | 99006000   | 990060060   | 1          | <u> </u>     |  |             |             | L              | <b>↓</b> | <b>↓</b>        | <del>                                     </del> | <del> </del>         |
| latural Brush/Forest | 25   | 9902500    | 1           |            |              | <del></del>  |             |             | L              | <u> </u> | <u> </u>        | <del></del>                                      | Fragment             |
| laheal Brush/Forest  | 2:   | 99025003   | 3           | <u>.L</u>  |              |  |             |             | <u> </u>       |          | 5 fbs           | <del></del>                                      | Fragment             |
| latural Brush/Forest | 25   | 9902500    | 4 990250040 | 1          | 1            |  |             | 1           | L              |          | 5 lbs           | <del>- </del>                                    | Fragment             |
| latural Brush/Forest | 1 2  | 9902500    | 5 990250050 | · 11       |              |  |             |             |                |          | 5 lbs           | <del>- </del>                                    | Fragment             |
| latural Brush/Forest | 1 2  | 5 9902500  | 8 990250080 | 1          |              |  |             |             | <u> </u>       |          | 5 ibs           | <del>- </del>                                    | Fragment             |
| latural Brush/Forest | - 2  | 9902500    | 5 990250080 | 1          | <del> </del> | <del> </del>                                       |             |             |                |          | 5 lbs           |  | Fragment             |
| Valural Brush/Forest | 1 2  | 5 9902500  | 9 990250090 | <u> </u>   |              | <del> </del>                                       |             |             | <u> </u>       |          | 5 lbs           |  | Fragment             |
| Vatural Brush/Forest | 1 2  | 5 9902501  | 0 990250100 | )1         |              | <del> </del>                                       |             |             | <u> </u>       |          | 5 lbs           |  | Fragment             |
| Natural Brush/Forest | <del>- 2</del>                                   | 5 9902501  | 1 990250110 | <u> </u>   |              |  |             |             |                |          | 5 lbs           |  | Fragment             |
| Natural Brush/Forest | $\frac{1}{2}$                                    | 5 9902501  | 3 99025013  | 11         |              |  |             |             |                |          | 5 libs          |  | Fragment             |
| Valurat Brush/Forest |  | 5 9902501  | 4. 99025014 | 01         |              |  |             |             | T              |          | 5 lbs           |  | Fragment             |
| Natural BrustyForest |  | 5 9902501  | 5 99025015  | 01]        |              |  |             |             | Τ              |          | .5 lbs          |  | Fragment             |
| Natural Brush/Forest |  | 5 9902501  | 6 99025016  | 01         |              |  |             |             |                | 0.2      | 25 lbs          |  | Fragment             |
| Natural Brush/Forest | _  | 9902501    | 8 99025018  | 01         |              |  |             |             |                |          | 1 lbs           |  | Tragnitoris          |
| Natural Brush/Forest |  | 25 9902501 | 9 99025019  | 01         | _            |  |             |             |                |          |                 | _}   | Fragment             |
| Natural Brush/Forest |  | 9902502    | 21          |            |              | _  |             |             |                |          | .5 lbs          |  | FIRMINGIA            |
| Natural Brush/Forest |  | 25 9902502 | 23 99025023 | 01         |              |  |             |             |                |          |                 | _  | Fragment             |
| Natural BrustyForest |  | 25 990250  | 25          |            |              |  |             |             |                |          | ),5 Hbs         | _  | E (Martines or       |
| Natural Brush/Forest |  | 25 990250  | 26 99025026 | 01         |              |  |             |             | 1              |          |                 |  | Fragment             |
| Natural Brush/Forest |  | 25 990250  | 28          |            |              |  |             |             |                |          | ).5 lbs         | <del></del>                                      | Fragment             |
| Natural Brush/Forest | _  | 25 990250  | 30 99025030 | 01         |              |  |             |             |                |          | ).5 lbs         | <del></del>                                      | Fragment             |
| Pinetarm             |  | 83 990630  | 01 99063001 | i01]       |              |  |             |             |                |          | 0.5 lbs         |  | Fragment             |
| Pinefarm             |  | 63 990630  | 02 99063002 | 201        |              |  |             |             |                |          | 1 lbs           |  | Fragment             |
| Pinefarm             |  | 63 990630  | 03 99063003 | 301        |              | _  |             |             |                |          | 1 libs          |  | Fragment             |
| Pinefarm             |  | 63 990630  | 06 9906300  | 301        |              |  |             | <del></del> |                |          | 0.5 lbs         |  | Fragment             |
| Pinefarm             |  | e3 990630  | 07 9906300  | 701        |              |  |             |             |                |          | 0.5 lbs         | _+   | Fragment             |
| Pinefarm             |  | 83 990630  | 08 9906300  | BO1        |              |  |             |             |                |          | .25 lbs         |  | Fragment             |
| Pinefarm             |  | 63 990630  | 10 9906301  | 001        |              | _ <del>                                     </del> |             |             |                |          | .25 lbs         |  | Fragment             |
|                      |  | 63 990630  | 13 9906301  | 301        |              | _}   |             |             |                |          | .25 lbs         |  | Fragment             |
| Pinefarm             |  | 63 990630  | 14 9906301  | 401        |              |  | <del></del> |             |                |          | 0.5 fbs         |  | Scrap                |
|                      | +-   | 63 990630  | 015 9906301 | 501        |              |  | <del></del> |             |                |          | .25 lbs         |  |                      |
| Pinefarm             |  | 63 990630  | 015 9906301 | 502        |              |  |             |             |                |          | 0.5 lbs         |  | Fragment             |
| Pineferm             |  | 83 99063   | 018 9906301 | 801        |              | _  |             |             |                |          | ),25 lbs        |  | Fregment             |
| Pinefarm             |  | A3 99063   | 019 9906301 | 901        |              |  | <del></del> |             |                |          | 1 lbs           | _  | Fragment             |
| Pinefarm_            | -+   | 63 99063   | 021 9906302 | 101        |              |  |             | <del></del> |                |          | 0.5 lbs         |  | Fragment             |
| Pinefarm             |  | 63 99063   | 023 9906302 | 301        |              |  |             |             |                |          | 3.25 lbs        |  | Fragment             |
| Pinetarm             |  | 83 99083   | 024 9906302 | 2401]      |              |  |             |             |                |          | 0.25 lbs        |  | Fragment             |
| Pinefarm             | -+-  | 63 99063   | 025 990830  | 2501       |              |  |             | <del></del> | $\neg$         |          | 0.25 lbs        |  | Fragment             |
| Pinefarm             |  | 60 99060   |             |            |              | _  |             |             |                |          | 0.25 lbs        |  | Fragmen              |
| Pinefarm             |  | 60 99060   | 002 990600  |            |              | (  |             |             |                |          |                 |  |                      |

| SECTORS NAME        | GRID ID    | ANOMALY ID | OBJECT ID  | EASTING         | NORTHING        | DESCRIPTION                           | COMMENTS       | DEPTH   | DEPTH "     | WEIGHT  | WEIGHT | EVE: 445 :- |          |
|---------------------|------------|------------|------------|-----------------|-----------------|---------------------------------------|----------------|---------|-------------|---------|--------|-------------|----------|
| inefarm             | 60         | 99060004   | 9906000401 |                 | <del></del>     | <del> </del>                          |                | - DEFIN | UMITS       | TTEIGHT | UNIIS  | EXPLOSIVE   | OBJ NAM  |
| Pinefarm            | 60         | 99060005   | 9908000501 |                 |                 |                                       |                |         |             | 0.25    |        |             | Fragment |
| Ynefarm             | 60         | 99060006   | 9906000601 | T               |                 | <del></del>                           |                |         |             | 0.25    |        |             | Fragment |
| Ynefarm             | 60         | 99060007   | 9906000701 | 1               | <del></del>     |                                       | ·              |         |             | 0.25    | 8      |             | Fragment |
| inefarm             | 60         | 99060008   | 9906000601 | · · · · ·       |                 |                                       | <del></del>    |         |             | 0.25    |        |             | Fragment |
| inefarm             | 60         | 99000010   | 9906001001 |                 |                 |                                       | <del></del>    |         |             | 0.25    |        |             | Fragment |
| inefam.             | 50         |            |            |                 |                 |                                       | <del></del>    |         |             | 0.25    | bs     |             | Fregment |
| Ynefarm             | 60         | 99060012   | 9908001201 |                 |                 | <del></del>                           | <del></del>    |         |             | 0.25    | b      |             | Fragment |
| ineferm             | 60         | 99060013   | 9906001301 |                 |                 |                                       |                |         |             | 0.25    | lbs    |             | Fragment |
| inefarm             | 60         | 99060015   | 9908001501 |                 |                 |                                       |                |         | <u></u>     | 0.25    | İbs    |             | Fragment |
| inefarm             | 60         |            | 9908001801 |                 |                 |                                       |                |         |             |         | lbs.   |             | Fragment |
| inelem              | 80,        | 99060017   | 9906001701 |                 |                 |                                       | <del></del>    |         |             | 1       | lbs .  |             | Fragment |
| ineiam              | 60         |            | 9905001801 |                 |                 |                                       |                |         |             | 0.5     | be     |             | Fragment |
| inelarm             | 57         |            | 9905700201 |                 |                 |                                       |                |         |             | 0.5     | lbs .  |             | Fragment |
| 'inefarm            | 57         | 99057003   | 9905700301 |                 |                 | <u> </u>                              | <del> </del>   |         |             | 0.25    | be     |             | Fregment |
| inetama             | 57         | 99057004   | 9905700401 |                 |                 |                                       |                |         |             | 0.1     |        |             | Fragment |
| inefarm             | 57         | 99057005   | 9905700501 |                 |                 |                                       |                |         |             | 0.1     | bs .   |             | Fragment |
| inefarm             | 57         |            | 9905700801 |                 |                 |                                       | <del>   </del> |         |             | 0.2     | De .   |             | Fregment |
| ineturm:            | 57         | 99057009   | 9905700901 |                 |                 |                                       |                |         |             | 0.15    | be     |             | Fregment |
| inefarm             | 58         | 99058001   | 9905800101 |                 |                 |                                       |                |         |             | 0.1     | bs     |             | Fragment |
| inefarm             | 58         | 99058002   | 9905800201 |                 |                 |                                       |                |         |             | 0.5     | bu     |             | regment  |
| inetarm             | 5 <b>ð</b> |            | 9905800301 |                 |                 |                                       |                | l       |             | 0.3     | be     |             | ragment  |
| inefarm             | 58         |            | 9905800601 |                 |                 |                                       |                |         |             | 0.5     | be     |             | regment  |
| atural Brush/Forest | 249        | 99249001   | 9924900101 |                 |                 | <del></del>                           |                |         |             | 0.5     | be     |             | regment  |
| atural Brush/Forest | 249        |            | 9924900301 |                 |                 | · · · · · · · · · · · · · · · · · · · |                |         |             | _ 1     | bs     |             | Scrap    |
| Inefarm             | 59         |            | 9905900201 |                 |                 | _ <del></del>                         |                |         |             |         | be -   | _           | Screo    |
| nefarm              | 59         |            | 9905900401 |                 |                 |                                       |                |         |             | 0.3     | be     |             | ragment  |
| inefarm             | 50         | 99059006   | 9905900601 |                 | <del></del>     | <u> </u>                              |                |         |             | 0.2 1   | bs     |             | regment  |
| nefarm              | 59         | 99059007   | 9905900701 |                 | <del></del>     | · · · · · · · · · · · · · · · · · · · |                |         |             | 0.3     | bs     |             | ragment  |
| nefarm              | 59         |            | 9905900901 |                 |                 | <del></del>                           |                |         |             | 0.3     | 3      |             | ragment  |
| neferm              | 59         |            | 9905901001 | <del></del>     | <del></del>     | <del></del>                           |                |         |             | 0.3     | bs .   |             | ragment  |
| Umgatti)            | 59         |            | 9905901201 |                 | <del></del>     | <del></del>                           |                |         |             | 0.3 4   | De     |             | ragment  |
| neferni             | 59         |            | 9905901301 | <del>+</del>    |                 |                                       |                |         |             | 0.2     | )s     |             | ragment  |
| nefarm              | 59         | 99059014   |            | <del>+</del>    | <del>+</del>    |                                       |                |         |             | D.3 I   | 18     |             | ragment  |
| netarra             | 59         | 99059015   |            | <del>  </del>   | <del></del>     |                                       |                |         |             | 0.1     |        |             | ragment  |
| nefarm              | 59         | 99059016   | 9905901601 |                 | <del></del>     | · · · · · · · · · · · · · · · · · · · |                |         |             | 0.1     |        |             | ragment  |
| nefarm              | 59         | 99059016   |            |                 | <del></del>     |                                       |                |         |             | 0.5 R   |        |             | Crap     |
| nefarm              | 59         | 99059019   |            | <del></del>     | <del>-</del> -+ |                                       |                |         |             | 0.5 R   |        |             | regment  |
| nefacin             | 59         | 99059020   |            |                 | <del></del>     |                                       |                |         |             | 0.3 8   |        |             | ragment  |
| lefarm              | 59         |            | 9905902101 | -+              |                 |                                       |                |         |             | 0.2 1   |        |             | ragment  |
| etam;               | 86         |            | 9908600101 | <del></del>     | <del></del>     |                                       |                |         |             | 0.3 R   |        |             | ragment  |
| efarm               | 66         |            | 905600201  | <del>-</del>    | <del></del>     |                                       |                |         |             | 1 1     |        |             | Crap     |
| efarm               | 66         |            | 906600401  |                 | <del></del>     |                                       |                |         |             | 1 16    |        |             | ragment  |
| efarm               | 66         |            | 900600501  |                 |                 |                                       |                |         |             | 1 1     |        |             |          |
| tural Brush/Forest  | 249        |            | 924900401  | <del></del>     | <del></del>     |                                       |                |         |             | 1 16    |        |             | ragment  |
| efarm               | 86         |            | 908800801  | <del>  </del> - | <del></del>  -  |                                       |                |         | <del></del> | 1 10    |        |             | ragment  |
| efactry             | 66         | 99066008   |            | <del></del> -   | <del>  </del> - |                                       |                |         |             | 1 10    |        |             | crap     |
| sfarm               | 68         |            | 906800901  | <del></del>     |                 |                                       |                |         |             | 1 16    |        |             | regment  |
| <del></del>         |            | 2022/10/40 |            |                 | 1               |                                       |                |         | -           | 0.33 lb |        |             | ragment  |





|                      |              |           |             |         |  | · · · · · · · · · · · · · · · · · · · |                |                  | DËPTH  |                                       | WEIGHT   |                  | 00 1 NA 65 |
|----------------------|--------------|-----------|-------------|---------|--|---------------------------------------|----------------|------------------|--|---------------------------------------|----------|------------------|------------|
|                      | GRID ID AN   | OMAL V ID | OBJECT ID   | EASTING | NORTHING   | DESCRIPTION                           | COMMENTS       | DEPTH            | UNITS  | WEIGHT                                |          | EXPLOSIVE        |            |
| ECTORS NAME          |              |           |             |         | 1112622'   | 105 mm BE/Inert                       |                | 12               | in.  |                                       | lbs      |                  | Ordnance   |
| nefarm               | 66           | 99066010  |             |         | 1112022  | 100 11111 02311011                    |                |                  |  | 0.33                                  |          |                  | Fragment   |
| nefarm               | 66           | 99066012  |             |         | <del> </del>                                       |                                       |                |                  |  |                                       | lbs      | <u> </u>         | Fragment   |
| atural Brush/Forest  | 65           | 99065001  | 9906500101  |         | <del> </del>                                       |                                       |                |                  |  | 0.15                                  |          | <u> </u>         | Fragment   |
| atural Brush/Forest  | 65           | 99065001  | 9906500102  |         | <del> </del>                                       |                                       |                |                  |  | 0.15                                  |          | <del> </del>     | Fragment   |
| latural Brush/Forest | 65           | 99065004  |             |         | <del>                                       </del> | <del></del>                           |                |                  |  |                                       | lbs      |                  | Fragment   |
| atural Brush/Forest  | 65           |           | 9906500402  |         | <del></del>  | com wire                              |                |                  |  | 1                                     | ibs      | <u> </u>         | Scrap      |
| latural Brush/Forest | 65           | 99065005  | 9906500501  |         | <del> </del>                                       | COST WING                             | ·              |                  |  |                                       | ibs      |                  | Fragment   |
| latural Brush/Forest | 65           | 99065006  |             |         | <del> </del>                                       | <del> </del>                          | <del></del>    |                  |  | 0.19                                  | i libs   |                  | Fragment   |
| latural Brush/Forest | 65           | 99065006  |             |         | <b></b>  |                                       |                |                  |  | 0.1                                   | ibs      |                  | Fragment   |
| latural Brush/Forest | 65           | 99065006  |             |         | <u> </u>   | <del> </del>                          | <del></del>    |                  |  | 0.1                                   | 5 Ibs    | <u> </u>         | Fragment   |
| latural Brush/Forest | 65           | 99065008  |             |         | <del> </del>                                       | 20 sel elips                          |                |                  |  | 0.2                                   | 5 lbs    |                  | Scrap      |
| latural Brush/Forest | 65           | 99065006  |             |         | ļ <u>.</u>   | 30 cal clips                          |                |                  |  | 0.1                                   | 5 Ibs    | <u> </u>         | Fragment   |
| latural Brush/Forest | 65           | 99065008  | 990650060   |         | <del> </del>                                       | <del> </del>                          |                | - 1              |  | 0.1                                   | 5 lbs    |                  | Fragment   |
| latural Brush/Forest | 65           | 99065008  | 990650080   | 2       | <b>↓</b>   | <del> </del>                          |                | <del>- 1</del> - | T  | 0.1                                   | 5 lbs    |                  | Fragment   |
| Natural Brush/Forest | 65           |           | 990650080   |         | <del></del>  | <del> </del>                          | <del></del>    |                  |  | 0.1                                   | 5 lbs    |                  | Fragment   |
| Vatural Brush/Forest | 65           |           | 990650090   |         | - <b>↓</b>   | <del>  </del>                         | <del></del>    |                  |  | 0.1                                   | 5 lbs    | <u> </u>         | Fragment   |
| Natural Brush/Forest | 65           | 99065009  |             |         |  | <del> </del>                          | <del>-  </del> |                  |  | 0.1                                   | 5 libs   | <u> </u>         | Fragment   |
| Natural Brush/Forest | 65           | 99065009  | 990850090   |         | <u> </u>   | <del> </del>                          | <del> </del>   |                  |  | 0.2                                   | 5 ibs    |                  | Fragment   |
| Natural Brush/Forest | 68           | 99068002  |             |         | <b>_</b>   | <del></del>                           |                | ·                | †  | 0.2                                   | 5 lbs    | <u> </u>         | Fragment   |
| Natural Brush/Forest | 68           | 99068002  |             |         | <u> </u>   |                                       | <del>  </del>  | -                |  | 0.2                                   | 5 lbs    |                  | Scrap      |
| Vatural Brush/Forest | 68           | 99066003  | 990680020   | 3       | <del></del> _                                      | Tin can                               |                |                  | 1  | 0.2                                   | 5 lbs    |                  | Fragment   |
| Natural Brush/Forest | 68           | 9906800   |             |         |  | <del></del>                           |                |                  | 1  | 0.2                                   | 25 lbs   |                  | Fragment   |
| Natural Brush/Forest | 68           | 9906800   | 5 990680050 | 2       |  |                                       |                |                  | † "  | 0.2                                   | 5 lbs    |                  | Fragment   |
| Natural Brush/Forest | 68           | 9906800   | 5 990680050 | 3       |  |                                       |                |                  | <del>                                     </del> | 0.2                                   | 25 lbs   |                  | Fragment   |
| Natural Brush/Forest | 68           | 9906800   | 5 990680050 | и       |  |                                       |                |                  | + -  | 0.3                                   | 25 lbs   |                  | Fragment   |
| Natural Brush/Forest | 68           | 9906800   | 5 990680050 | 5       |  |                                       |                | <del> </del>     | 1  | 0.3                                   | 25 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906800   |             |         | _l   |                                       |                | <del> </del>     | 1  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   | 1 990670010 | )1      | <b>⅃</b>   |                                       |                |                  | <del> </del>                                     | 0.                                    | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   | 2 990670020 | 01      |  |                                       |                |                  | <del>  -</del>                                   | 0.                                    | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   | 2 990670020 | 02      |  |                                       |                |                  | 1  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   | 2 990670020 | 03      | <u> </u>   |                                       |                |                  |  | 0.                                    | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   | 2 99087002  | D4      |  |                                       |                |                  | _  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   | 2 990670020 | 05      |  | <u> </u>                              |                |                  | -  |                                       | 15 lbs   | 1                | Fragment   |
| Natural Brush/Forest |              | 9906700   | 2 99067002  | 06      |  |                                       |                | <del> </del>     |  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   |             |         |  |                                       |                | <del></del>      | <del>                                     </del> |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Forest |              | 9906700   |             | 08      |  |                                       |                | <del></del>      | +  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Fores  |              |           | 99087002    | 09[     |  | <u> </u>                              |                |                  | -1   |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Fores  | <del></del>  |           | 99067002    |         |  |                                       |                |                  | +  |                                       | 15 lbs   | <del></del>      | Fragment   |
| Natural Brush/Fores  | <del></del>  |           | 99067002    |         | T  |                                       |                |                  | +  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Fores  |              |           | 99067002    |         |  |                                       |                | <del></del>      | +  |                                       | 15 lbs   |                  | Fragment   |
| Natural Brush/Fores  | <del>`</del> | 9906700   | 99087002    | 13      |  |                                       |                |                  | <del></del> -                                    |                                       | .15 lbs  | - 17 -           | Fragment   |
|                      |              | 990870    | 02 99067002 | 14      |  |                                       |                |                  | <del></del>                                      |                                       | .15 lbs  | <del>-   !</del> | Fragment   |
| Natural Brush/Fores  |              |           | 99067002    |         |  |                                       |                | <del>-</del>     |  |                                       | .15 lbs  | <del></del>      | Fragment   |
| Natural Brush/Fores  |              |           | 99067002    |         |  |                                       |                |                  | <del>_ </del>                                    |                                       | .15 lbs  | <del>-  </del>   | Fragmen    |
| Natural Brush/Fores  | <u> </u>     |           | 02 99067002 |         | _  |                                       |                |                  |  | · · · · · · · · · · · · · · · · · · · | .15 lbs  | <del>-  </del>   | Fragmen    |
| Natural Brush/Fores  |              |           | 02 99067002 |         |  | <u> </u>                              |                |                  | <del></del>                                      |                                       |          |                  | Fragmen    |
| Natural Brush/Fores  |              | 000670    | 02 99067002 | 19      | 1  |                                       |                |                  |  |                                       | 15 lbs   |                  | Fragmen    |
| Natural Brush/Fores  | 67<br>st 67  | 980070    | 02 99067002 | 200     | <del></del>  | <del></del>                           |                | 1                | - 1  |                                       | 1.15 lbs |                  | rragina    |

| SECTORS NAME         | UKID ID | ANOMALY ID  | OBJECT ID                | EASTING     | NORTHING      | DESCRIPTION |                |  | DEPTH          |          | WEIGHT   |           |                    |
|----------------------|---------|-------------|--------------------------|-------------|---------------|-------------|----------------|--|----------------|----------|--|-----------|--------------------|
| Natural Brush/Forest | 67      | 99097002    | 9906700221               | T           |               | DESCRIPTION | COMMENTS       | DEPTH  | UNITS          | WEIGHT   | PARTE  | EVEL GALL |                    |
| Natural Brush/Forest | 87      |             | 9906700222               | <b></b>     | <del></del>   |             |                | <del></del>                                      |                |          |  | EXPLOSIVE | OBJ NAME           |
| Natural Brush/Forest | 67      |             |                          |             | <u></u>       |             |                |  |                | 0.15     |  |           | ragment            |
| Natural BrustyForest | 87      |             | 9906700224               |             |               |             |                | _ +  | <u> </u>       | 0.15     |  |           | regment            |
| Natural Brush/Forest | 67      |             | 9908700225               |             |               |             |                |  |                | 0.15     |  |           | ragment            |
| Natural Brush/Forest | 87      | 99047002    | 9906700226               |             |               |             | <del></del>    | <del> </del>                                     | ļ              | 0,15     |  |           | rapment            |
| Natural Brush/Forest | 67      | 9001002     | 9908700227               |             |               |             |                | <del></del>                                      | <u> </u>       | 0.15     |  |           | ragment            |
| Natural Brush/Forest | 87      | 90007002    | 9908700227               |             |               |             |                | <del></del> -                                    |                | 0.15     |  |           | ragment            |
| Natural Brush/Forest | 67      | 99057002    | 9906700229               |             |               |             |                | <del></del>                                      |                | 0.15     |  |           | ragment            |
| Valural Brush/Forest | 67      | 9007002     | 9906700230               |             |               |             | <del></del>    | <del></del>                                      |                | 0.15     | lbs  |           | ragment            |
| Vatural Brush/Forest | 87      | 00007002    | 9906/00230               |             |               |             | <del></del>    |  |                | D.15     |  |           | ragment            |
| Valuati Brush/Forest | 67      | 99007002    | 9906700231               |             |               |             | <del></del>    |  |                | 0.15     | bs   |           | ragment            |
| latural Brush/Forest | 67      | 00007002    | 9906700232               |             |               |             | <del></del>    |  |                | 0.15     | ps   |           | ragment            |
| latural Brush/Forest | 87      | 00007002    | 9906700233<br>9906700234 |             |               |             | <del></del>    |  |                | 0.15     |  |           | ragment            |
| atural BrustyForest  | 67      | 99007002    | 9909/00234               |             |               |             | <del></del>    |  |                | 0.15     | be   |           | regment            |
| atural Brush/Forest  | 87      | 00007002    | 9906700235<br>9906700236 |             | i             |             |                | <del>  </del>                                    |                | 0.15     |  |           | ragment            |
| latural Brush/Forest | 67      |             |                          |             |               |             | <del> </del>   |  |                | 0.15     | be   |           | agment             |
| atural Brush/Forest  | 67      | 99067002    | 9906700237<br>9906700238 |             |               |             |                | <del></del> !                                    |                | 0.15     | b#   |           | Shuels,            |
| atural Brush/Forest  | 87      | 00007002    | 9906/00238               |             |               |             |                | <del></del> ↓                                    |                | 0.15     | bs   |           | agment             |
| atural Brush/Forest  | 67      | 99007002    | 9906700239               |             |               |             |                |  |                | 0.15     | be .   |           | agment             |
| atural Brush/Forest  | 67      | 99067002    | 9908700240               |             | -             |             |                |  |                | 0.15     | 28   |           | SCHOOLS.           |
| stural BrustyForest  | 67      | 99067002    | 9908700241               |             |               |             |                |  |                | 0.15     | 38   |           | spinent<br>Street  |
| stural Brush/Forest  | 67      | 99067002    | 9906700242               |             |               |             |                |  |                | 0.15     | × -  |           | Strient            |
| tural BrustyForest   | 67      | 99067002    | 9906700243               |             |               |             |                | [  |                | 0.15     | × -  |           | Syrient<br>Syrient |
| stural BrustyForest  | 67      | 99067002    | 9906700244               |             |               |             | <del></del>    |  |                | 0.15 R   | 28   |           | agment<br>agreem   |
| itural Brush/Forest  |         | 99067002    | 9905700245               |             |               |             | <del></del>    |  |                | 0.15 K   | × -  |           | agment             |
| tural Brush/Forest   | 67      | 99067002    | 9906700246               |             |               |             |                |  |                | 0.15 E   |  |           | agment<br>Byment   |
| kural Brush/Forest   | 67      | 99087002 (  | 9908700247               |             |               |             | <del></del>    |  |                | 0.15 K   | <u>.                                      </u> |           | priment            |
| itural BrustyForest  | 67      | 99067002 (  | 9906700248               |             |               |             | <del></del>    |  |                | 0.15 %   |  |           |                    |
| tural Brush/Forest   | 67      | 99067002 9  | 906700249                |             |               |             |                |  |                | 0.15 lb  |  |           | gment              |
| tural BrustyForest   | 67      | 99067002 9  | 908700250                |             |               |             |                |  |                | 0.15 R   |  |           | gment              |
| tural Brush/Forest   | 67      | 99087004 9  |                          |             |               |             | ·              |  |                | 0.15 lb  |  |           | gment              |
| tural Brush/Forest   | 67      | 99087005 9  | 908700501                |             |               |             | <del></del>    |  |                | 0.15 lb  |  |           | дтеп               |
| tural Brush/Forest   | 87      | 99067005 9  | 906700502                |             |               |             | <del></del>    |  |                | D.15 lb  |  |           | gment              |
| tural Brush/Forest   | 67      | 99087005 8  |                          |             |               |             | <del>   </del> |  |                | 0.15 lb  |  |           | igment             |
| tural Brush/Forest   | 67      | 99067005 9  |                          |             | <del></del>   |             | <b> </b>       |  |                | 0.15 lb  |  |           | gment              |
| tural Brush/Forest   | 67      | 99087005 9  | 908700505                |             | -             |             | <del></del>    |  |                | 0.15 lb  |  |           | gment              |
| ural Brush/Forest    | 87      | 99067005 9  | 906700506                |             |               |             | <del></del>    |  |                | 0.15     |  |           | gment              |
| ural Brush/Forest    | 67      | 99067008 9  | 906700801                |             | <del></del>   |             |                |  | _              | 0.15 lbs |  |           | gment              |
| ural BrustyForest    | 67      | 99087008 9  |                          |             |               |             |                |  |                | 0.15 lbs |  |           | gment              |
| ural Brush/Forest    | 87      | 99067008 91 | 906700603                |             |               |             |                |  |                | 0.15 lbs |  |           | gment              |
| ural Brush/Forest    | 67      | 99067008 99 | 908700804                |             | <del></del>   |             |                |  |                | 0.15 lbs |  |           | gment              |
| ural Brush/Forest    | 67      | 99067008 90 | 208700805                |             | <del></del>   | <del></del> |                |  |                | 0.15 lbs |  |           | gment              |
| am purelyl-Olegi     | 67      | 99087009 99 | 06700901                 |             |               |             |                |  | <del></del>    | 0.15 lbs |  |           | gment              |
| and BrushVForest     | 67      | 99087009 99 | 06700902                 |             | <del>  </del> | <del></del> |                |  | +              | 0.15 lbs |  |           | gment              |
| rai Brush/Forest     | 67      | 99087009 99 | 08700903                 |             | <del></del>   |             |                | <u> </u>   |                | 0.15 fbs |  |           | rment              |
| ral Brush/Forest     | 67      | 99087009 99 | 08700904                 |             | <del></del>   |             |                | <del>                                     </del> | <del>-</del>   | 0.15 lbs |  |           | rnent              |
| ral Brush/Forest     | 67      | 99067009 99 | 08700905                 |             | <del></del> - |             |                | <del>                                     </del> | <del></del>    | 0.15 lbs | <del></del>  -                                 |           | ment               |
| ral Brush/Forest     | 67      | 99087009 99 | 06700908                 | <del></del> | <del></del> - |             |                | <del>                                     </del> | <del>-  </del> | 0.15 (bs |  |           | ment               |
|                      | _       |             |                          |             |               |             |                |  |                | 0.15 lbs | I  | (Frac     | ment               |





| 67  | ANOMALY ID   |  |   |   |   |   | DEPTH  | UNITS                            | WEIGHT  | UNITS                | EXPLOSIVE   | OBJ NAME                     |
|-----|--|--|---|---|---|---|--|----------------------------------|---|----------------------|-------------|------------------------------|
| 67  | AMURIALT ID  |  | FASTING   | NORTHING  | DESCRIPTION   | COMMENTS  | OL,  | •                                |   |                      |             |                              |
|     |  |  |   |   | <del>,</del>  |   |  |                                  | 0.15  | ibs                  | <u> </u>    | Fragment                     |
|     | 99087011   |  |   | ļ.—. —  | D-b ad uses   |   |  |                                  |   | lbs                  |             | Scrap                        |
| 30  | 99030001   |  |   | <del> </del>  | Barbed wire   |   |  |                                  | 0.5   | lbs                  |             | Scrap                        |
| 30  | 99030002   |  |   |   | Barbed wire   |   |  |                                  | 0.25  | lbs                  | <u> </u>    | Scrap                        |
| 30  | 99030003   |  |   | <del> </del>  | Barbed wire   |   |  |                                  | 0.25  | lbs                  | <u> </u>    | Fragment                     |
| 30  | 99030006   | 9903000601   | 11  | <u> </u>  | <del> </del>  |   |  |                                  | T   |                      | <u> </u>    |                              |
| 30  | 99030007   | `l   | <u> </u>  | ļ   |   |   |  |                                  |   |                      |             | <u> </u>                     |
| 30  |  |  |   | <del> </del>  | <del> </del>  |   |  |                                  |   |                      | <u> </u>    | Fragment                     |
| 30  | 99030010   |  |   | .   | <del> </del>  |   |  |                                  |   |                      |             | Fragment                     |
| 30  | 99030013   |  |   | <del></del>   |   |   |  |                                  | 0.2   | 5 libs               | <u> </u>    | Fragment                     |
| 30  | 99030014   |  |   | <del>                                     </del>  |   |   |  |                                  | 0.1   | Sibs                 |             | Fragment                     |
| 30  |  |  | 1   |   | <u> </u>  | <del></del>   |  |                                  |   |                      |             | <del> </del>                 |
| 30  |  |  |   | <del></del>   | <del> </del>  |   |  |                                  |   |                      | <del></del> | Fragment                     |
|     |  |  |   | <del></del>   | <del> </del>  |   |  |                                  |   |                      | <del></del> | Fragment                     |
| 30  |  |  |   | <del>                                     </del>  | <del> </del>  |   |  |                                  |   |                      |             | Fragment                     |
| 30  |  |  |   | <del></del>   |   |   |  |                                  |   |                      |             | Fragment                     |
| 30  |  |  |   |   | <del> </del>  |   |  |                                  |   |                      |             | Fragment                     |
| 2   |  |  |   | <del>                                     </del>  | <del> </del>  |   |  |                                  |   |                      |             | Fragment                     |
| 2   | 9902900  | 6 990290060  |   | <del></del>   |   |   |  |                                  |   |                      |             | Fragment                     |
| 2   |  |  |   |   |   |   |  |                                  |   |                      |             | Fragment                     |
| 2   | 9902900  |  |   |   |   |   |  | T                                |   |                      | _           | Fragment                     |
| 2   | 9902901  | 0 990290100  | 21  |   |   |   |  |                                  |   |                      | _}          | Fragment                     |
| 2   | 9 9902901  | 1 990290110  | 25  | <del></del>   |   |   |  |                                  |   |                      |             | Fragment                     |
| 2   | 9902901  | 2 990290120  | )1  |   | <u> </u>  |   |  |                                  |   |                      |             | Fragment                     |
| 2   | 9 9902901  | 4 990290140  | 21  |   |   | <del></del>   |  |                                  |   |                      |             | Fragment                     |
| 2   | 9 9902901  | 5 990290150  | 21  | <del> </del>  | <del></del>   |   |  | 1                                |   |                      |             | Fragment                     |
|     | 9 9902901  | 6 990290180  | <u> </u>  | <del> </del>  |   |   |  |                                  |   |                      |             | Fragment                     |
| .2  | 9 9902901  | 7 990290170  | 01  | <del>- </del>   |   |   |  |                                  |   |                      |             | Fragment                     |
| 7 2 | 9 9902901  | 8 99029018   | 011   | <del></del>   |   |   |  |                                  |   |                      |             | Fragment                     |
| 2   |  |  |   |   |   |   |  |                                  |   |                      |             | Fragmen                      |
|     |  |  |   |   | <del>-</del>  |   |  |                                  |   |                      | }           | Fragmen                      |
|     |  |  |   |   | <del></del>   |   |  |                                  |   |                      |             | Fragmen                      |
| 2   | · · · · · · · · · · · · · · · · · · ·  |  |   |   | <del></del>   |   |  | Τ                                |   |                      |             | Fragmen                      |
|     |  |  |   |   |   |   |  |                                  |   |                      |             | Fragmen                      |
|     |  |  |   |   | Downed with   |   |  |                                  |   |                      |             | Scrap                        |
|     |  |  |   |   | DENDER MILE   |   |  |                                  |   |                      |             | Fragmen                      |
|     |  |  |   | <del></del>   | Barbari wire  |   |  |                                  |   |                      |             | Scrap                        |
|     |  |  |   |   | DELUCY WAS  |   |  |                                  |   |                      |             | Fragmer                      |
|     |  |  |   |   | <del>- </del>   |   |  |                                  |   |                      |             | Fragmen                      |
|     |  |  |   | <del></del>   | <del>                                     </del>  |   |  |                                  |   |                      |             | Fragmer                      |
|     |  |  |   | _   | <del></del>   |   |  |                                  |   |                      |             | Fragmet                      |
|     |  |  |   |   | <del> </del>  |   |  |                                  |   |                      |             | Fragme                       |
|     |  |  |   |   | <del></del>   | <del></del>   |  |                                  | 0   | .15 lbs              |             | Fragmer                      |
|     | 14 990140  | 07 99014007  | 705   |   |   |   | _   _  |                                  |   |                      |             | Fragme                       |
|     |  |  |   |   |   | <del> </del>  |  |                                  | 0   | .15 lbs              |             | Fragme                       |
|     |  |  |   | _   | <del></del>   | <del></del>   |  |                                  |   | .15 fbs              |             | Fragme                       |
|     | 14 990140  | 07 9901400   | 708   | _}  |   | ·   | <del>- +</del>   | $\top$                           |   | .15 lbs              |             | Fragme                       |
|     |  | 99014001   | 901   |   |   |   |  |                                  | 1   | .15 lbs              |             | Fragme                       |
|     | 30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>21<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>23<br>24<br>24<br>25<br>26<br>27<br>27<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28 | 30 99030000 30 99030001 30 99030001 30 99030001 30 9903001 30 9903001 30 9903001 30 9903001 30 9903002 30 9903002 30 9903002 29 9902900 29 9902900 29 9902900 29 9902901 29 9902 | 30 99030008 990300000 30 99030010 990300100 30 99030011 990300100 30 99030014 9903001400 30 99030014 9903001400 30 99030018 990300180 30 99030018 990300200 30 99030020 990300200 30 99030021 990300210 30 99030025 990300250 29 99029005 990290050 29 99029006 990290060 29 99029007 990290070 29 99029001 990290070 29 99029010 990290100 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029011 990290110 29 99029021 99029020 29 99029021 99029020 29 99029021 99029020 29 99029021 99029020 29 99029021 99029020 29 99029021 99029020 29 99029021 99029021 29 99029021 99029021 29 99029021 99029020 29 99029021 9902900100000000000000000000 | 30 99030008 9903000801 30 99030007 30 99030010 9903001001 30 99030013 9903001001 30 99030014 9903001401 30 99030018 9903001801 30 99030018 9903002001 30 99030021 9903002001 30 99030023 9903002301 30 99030025 9903002301 30 99030025 9903002501 29 99029006 9902900501 29 99029008 9902900501 29 99029009 9902900501 29 99029010 9902900701 29 99029010 9902901001 29 99029011 9902901101 29 99029012 9902901001 29 99029015 9902901001 29 99029018 9902901001 29 99029018 9902901001 29 99029018 9902901501 29 99029018 9902901501 29 99029018 9902901501 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029019 9902901001 29 99029020 990290201 29 99029021 990290201 29 99029021 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029002 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 29 99029029 990290201 | 30 99030008 9903000001 30 99030007 30 99030010 9903001001 30 99030013 9903001301 30 99030018 9903001401 30 99030018 9903001801 30 99030020 9903002001 30 99030021 9903002101 30 99030023 9903002201 30 99030025 9903002501 30 99030025 9903002501 29 99029005 9902900501 29 99029007 9902900501 29 99029009 9902900901 29 99029009 9902900901 29 99029019 9902901001 29 9902901 9902901001 29 9902902 9902901001 29 9902902 990290201 29 9902902 990290201 29 9902902 990290201 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 29 9902902 9902902001 | 30 99030006 9903000801 30 99030017 30 99030019 9903001001 30 99030019 9903001001 30 99030014 9903001401 30 99030016 9903001801 30 99030018 30 99030019 30 99030020 9903002001 30 99030021 9903002101 30 99030021 9903002101 30 99030021 9903002101 30 99030021 9903002101 20 99030025 9903002501 29 99029006 9902900501 29 99029006 9902900501 29 9902900 9902900501 29 9902900 9902900501 29 9902900 9902900501 29 9902901 990290101 29 9902901 990290101 29 9902901 990290101 29 9902901 990290101 29 9902901 990290101 29 9902901 990290101 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902901 9902901001 29 9902902 990290101 29 9902902 990290101 29 9902903 9902902001 29 9902903 9902902001 29 9902903 9902902001 29 9902903 9902902001 29 9902903 9902902001 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 29 9902903 990290301 | 30 99030009 9903001001 30 99030019 9903001001 30 99030019 9903001001 30 99030013 9903001301 30 99030013 9903001301 30 99030013 9903001201 30 99030013 990300201 30 99030021 990300201 30 99030021 990300201 30 99030021 9903002101 30 99030021 9903002101 30 99030021 9903002101 29 9902000 990200501 29 9902000 990200501 29 9902000 990200501 29 9902000 990200501 29 9902000 990200501 29 9902000 990200501 29 9902001 990200101 29 9902001 990201001 29 9902010 990201001 29 9902011 990201001 29 9902011 990201001 29 9902011 990201001 29 9902011 900201101 29 9902011 900201101 29 9902011 900201101 29 9902011 900201101 29 9902011 900201101 29 9902001 900201101 29 9902001 900201101 29 9902001 900200101 20 9902001 900200101 21 9902001 900200101 22 9902001 9002000101 23 9902001 9002000101 24 9902001 9002000101 25 9902001 9002000101 26 9902002 900200001 27 99020001 900200001 28 99020001 900200001 29 99020001 90020000101 20 99020001 90020000101 20 99020001 90020000101 20 99020001 90020000101 20 99020001 90020000101 20 99020001 90020000101 20 99020001 900200000101 20 99020001 9002000000000000000000000000 | 30 99030007 900300070 9003000001 | 30 99030000 9903000001 30 99030010 9903001001 30 99030010 9903001001 30 99030011 9903001301 30 99030011 9903001301 30 99030011 9903001101 30 99030010 9903002001 30 99030010 9903002001 30 99030021 9903002001 30 99030021 9903002001 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 30 99030021 99030020101 20 99022000 9902200001 20 99022000 9902200001 20 990220010 9902200001 20 99022011 9902201101 20 99022011 9002201101 20 99022011 9002201101 21 99022011 9002201101 22 99022011 9002201101 23 99022011 9002201101 24 99022011 9002201101 25 99022011 9002201101 26 99022011 9002201101 27 99022011 9002201101 28 99022011 9002201101 29 99022011 9002201101 20 99022011 9002201101 20 99022011 9002201101 21 99022011 9002201101 22 99022011 9002201101 23 99022011 9002201101 24 99022011 9002201101 25 99022011 9002201101 26 99022011 9002201101 27 99022011 9002201101 28 99022011 9002201101 29 99022011 9002201101 20 99022012 9002201101 20 99022011 9002201101 20 99022011 9002201101 20 99022011 9002201101 20 99022011 9002201101 21 99022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 21 90022011 9002201101 | 90 99030000 90030000 | 30          | 300   990300009   9903000001 |

| SECTORS NAME         | GRID ID | ANOMALY ID       | OBJECT ID  | EASTING         | NORTHING       | DESCRIPTION                            | COMMENTS                              | DEPTH       | DEPTH UNITS |         | WEIGHT       |             |          |
|----------------------|---------|------------------|------------|-----------------|----------------|--|---------------------------------------|-------------|-------------|---------|--------------|-------------|----------|
| Natural BrushyForest | 14      | 99014009         | 9901400903 | <u> </u>        | <del></del> -  | <del></del>                            |                                       | DEFIN       | OM12        | WEIGHT  | UNITS        | EXPLOSIVE   | OBJ NAME |
| Vatural BrushvForest | 14      | 99014009         | 9901400904 | <del>il</del>   | <del></del>    | <del></del>                            | <del></del>                           |             |             | 0.15    | lbs          |             | Fragment |
| latural Brush/Forest | 14      | 99014009         | 990140090  |                 |                | <del></del>                            | <del></del>                           |             |             | 0.15    | lbe          |             | Fragment |
| latural Brush/Forest | 14      | 99014009         | 9901400900 | 3               | <del></del>    |  |                                       |             |             | 0.15    | lba          |             | Fragment |
| letural Brush/Forest | 14      | 99014010         | 9901401001 |                 |                |  | · · · · · · · · · · · · · · · · · · · |             |             | 0.15    | lbs          |             | Fragment |
| latural Brush/Forest | 14      | 99014010         | 9901401002 | !               |                | <del></del>                            | <del></del>                           |             |             | 0.15    | lbs          |             | Fragment |
| latural BrusivForest | 14      | 99014010         | 9901401003 |                 |                | <del></del>                            | <del></del>                           |             |             | 0.15    | <b>D</b> s   |             | Fragment |
| tatural Brush/Forest | 14      | 99014011         | 9901401101 |                 |                |  |                                       |             |             | 0.15    | lbs          |             | Fragment |
| latural BrustyForest | 14      | 99014011         | 9901401102 |                 |                |  |                                       |             |             | D.15    | lbs          |             | Fragment |
| latural Brust/Forest | 14      | <b>99014</b> 011 | 9901401103 |                 |                | ······································ | ·                                     |             |             | 0.15    | lbs          |             | Fragment |
| latural Brush/Forest | 14      | 99014011         | 9901401104 |                 |                |  | ·                                     |             |             | 0.15    | lbs          | 1 — —       | Fragment |
| latural Brush/Forest | 14      | 99014011         | 9901401105 |                 |                |  |                                       |             |             | 0.15    | Ds .         | T           | Fragment |
| latural Brush/Forest | 14      | P9014011         | 9901401108 |                 |                | <del></del>                            | <del></del>                           |             |             | 0.15    | tos .        |             | Fragment |
| stural BrustyForest  | 14      | 99014012         | 9901401201 |                 |                | <del> </del>                           |                                       | _           |             | 0.15    |              |             | Fragment |
| latural Brush/Forest | 14      |                  | 9901401202 |                 |                |  |                                       |             |             | 0.15    | bs           |             | Fragment |
| latural BrushyForest | 14      | 99014012         | 9901401203 |                 |                |  | <del></del>                           | _           |             | 0.15    | lbs.         |             | Fragment |
| latural Brush/Forest | 14      | 99014012         | 9901401204 |                 |                |  | <del></del>                           | _           |             | 0.15    |              |             | Fragment |
| atural Brush/Forest  | 14      | 99014014         | 9901401401 |                 |                |  |                                       |             |             | 10      | bii          |             | Scree    |
| letural Brush/Forest | 14      | 99014014         | 9901401402 |                 |                |  | <del></del>                           |             |             | 0.15    | bs           |             | Fragment |
| atural Brush/Forest  | 14      | 99014014         | 9901401403 | f               |                | <del></del>                            | <del></del>                           |             |             | 0.15    | bs           |             | Fragment |
| atural Brush/Forest  | 14      | 99014014         | 9901401404 |                 |                |  | <del></del>                           |             |             | 0.15    | bs           |             | ragment  |
| atural Brush/Forest  | 14      | 99014015         | 9901401501 |                 |                |  | <del></del>                           |             |             | 0.15    | bs           |             | ragment  |
| atural Brush/Forest  | 14      | 99014015         | 9901401502 |                 |                |  |                                       |             |             | 0.15    | bs           |             | ragment  |
| atural Brush/Forest  | 14      |                  | 9901401503 |                 | <del></del>    |  | <del> </del>                          |             |             | 0.15    | bs           |             | regment  |
| atural Brush/Forest  | 14      | 99014015         | 9901401504 |                 |                |  |                                       |             |             | 0.15    | bs           |             | ragment  |
| atural Brush/Forest  | 14      | 99014016         | 9901401601 |                 |                |  |                                       |             |             | 0.15    | be           |             | ragment  |
| stural Brush/Forest  | 14      | 99014016         | 9901401802 |                 |                |  | <del>   </del>                        |             |             | 0.15    | be .         |             | regment  |
| Hural Brush/Forest   | 14      | 99014017         | 9901401701 |                 |                |  | <del></del>                           |             |             | D. 15 ( | bs           |             | ragment  |
| thural Brush/Forest  | 14      | 99014017         | 9901401702 |                 |                | · · · · · · · · · · · · · · · · · · ·  | ·                                     |             |             | 0.15    |              |             | ragment  |
| itural Brush/Forest  | 14      | 99014017         | 9901401703 |                 |                |  | <del></del>                           | <del></del> |             | 0.15    | D\$          |             | ragment  |
| titural Brush/Forest | 14      | 99014017         | 9901401704 |                 |                |  | <del></del>                           |             |             | 0.15 1  |              |             | ragment  |
| itural Brush/Forest  | 14      | 99014017         | 9901401705 |                 |                |  |                                       |             |             | 0.15    | bs           |             | ragment  |
| Murai Brush/Forest   | 14      | 99014017 1       | 9901401706 |                 |                |  |                                       |             |             | 0.15    | 28           |             | ragment  |
| tural Brush/Forest   | 28      |                  | 9902800101 |                 | <del></del>    |  | <del></del>                           |             |             | 0.15    | )s           |             | regment  |
| Hural Brush/Forest   | 28      | 99028003         | 9902800301 | —— <u>—</u>     |                |  | <del>  </del>                         |             | 1           | 0.3     | <b>X</b>     |             | regment  |
| itural BrustyForest  | 28      | 99028004 1       | 9902800401 |                 | <del></del>    |  | <del></del>                           |             |             | 0.3     | b4.          |             | regment  |
| itural Brush/Forest  | 28      | 99028005 9       | 902900501  |                 | <del></del>    | <del> </del>                           |                                       |             |             | 0.7     | 28           |             | ragment  |
| tural Brush/Forest   | 28      | 99028008 6       | 902800601  |                 | <del></del>    |  | <del></del>                           |             |             | 1       | 38           |             | ragment  |
| itural Brush/Forest  | 13      | 99013002         | 901300201  |                 | <del></del> +  |  | <del></del>                           | ↓           | T           | 1       | )s           |             | ragment  |
| tural Brush/Forest   | 13      | 99013002 9       | 901300202  | -+              | <del></del>    |  | <del></del>                           |             |             | 0.15 R  | >6           |             | ragment  |
| kiral Brush/Forest   | 13      | 99013002         | 901300203  | $\neg \neg$     | <del></del>    | <del></del>                            |                                       |             |             | D.15 R  | ×8.          |             | ragment  |
| tural Brush/Forest   | 13      |                  | 901300204  |                 | <del></del>    |  | <del></del>                           | T           |             | 0.15 R  | ×s           |             | ragment  |
| ural Brush/Forest    | 13      | 99013002 1       |            | <del>  </del>   | <del></del>    |  |                                       |             | 1           | 0.15 R  | ×5           | <del></del> | ragment  |
| Lural Brush/Forest   | 13      |                  | 901300208  | <del>-  </del>  | <del></del>    |  |                                       |             |             | 0.15 It | ×5           |             | ragment  |
| tural Brush/Forest   | 13      |                  | 901300207  | <del></del>     | <del></del>    |  |                                       |             |             | 0.15    | <del>,</del> |             | ragment  |
| tural Brush/Forest   | 13      |                  | 901300208  | <del></del> -   | <del></del>  - | <del></del>                            |                                       |             |             | 0.15 R  | <del>-</del> |             | ragment  |
| ural Brush/Forest    | 13      | 99013002 9       |            | <del>  </del> - | <del></del>    | <del></del>                            |                                       |             |             | 0.15 R  |              |             | ragment  |
| ural Brush/Forest    | 13      | 99013002 9       |            | <del></del>     | <del> </del> - |  |                                       |             |             | 0.15 It |              |             | ragment  |
|                      |         |                  | /          |                 |                | <u></u>                                |                                       |             |             | 0.15 %  |              |             | agment   |





|                      |  |                        |             |         |  |  |                                       |             | DEPTH   |      | WEIGHT | EXPLOSIVE  | AD I NAME |
|----------------------|--|------------------------|-------------|---------|--|--|---------------------------------------|-------------|---|------|--------|--|-----------|
| ECTORS NAME          | GRID ID  | ANOMALY 10             | OBJECT ID   | EASTING | NORTHING   | DESCRIPTION  | COMMENTS                              | DEPTH       | UNITS   |      | UNITS  | EXPLOSIVE  |           |
|                      |  |                        |             |         |  | T  |                                       |             |   | 0.15 |        |  | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del>                                     </del>   |  |                                       |             |   | 0.15 |        | <b>├</b>   | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del>                                       </del> |  |                                       |             | <u> </u>  | 0.15 |        | ļ —  | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del></del>  |  |                                       |             |   | 0.15 |        | <u> </u>   | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del> </del>                                       |  |                                       |             |   | 0.15 |        |  | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del> </del>                                       | <del>                                     </del>   |                                       |             |   | 0.15 |        |  | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | ┿  | <del></del>  |                                       |             |   | 0.15 |        | <u> </u>   | Fragment  |
| tural BrustyForest   | 13   |                        |             |         | <del></del>  | <del></del>  |                                       |             |   | 0.15 |        |  | Fragment  |
| tural BrustvForest   | 13   |                        |             |         | <del> </del>                                       | 10- Barbed wire                                    |                                       |             | 1   | 0.15 | ibs    |  | Scrap     |
| tural Brush/Forest   | 13   |                        |             |         | <del> </del>                                       | 10- Bai Deu Mile                                   |                                       |             |   | 0.15 |        | <u> </u>   | Fragment  |
| tural Brust/Forest   | 13   |                        |             |         | <del> </del>                                       | <del></del>  |                                       |             |   | 0.15 | bs     | I  | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del> </del>                                       |  |                                       |             | 1   | 0.15 | ibs    |  | Fragment  |
| tural Brush/Forest   | 13   |                        |             |         | <del></del>  |  |                                       |             |   | 0.15 | lbs    |  | Fragment  |
| tural BrustyForest   | 13   |                        |             |         | <del>                                       </del> | <del>                                     </del>   |                                       |             |   | 0.15 | lbs    |  | Fragment  |
| dural BrustyForest   | 13   |                        |             |         | +  | <del>                                     </del>   | <del></del>                           |             | 1   | 0.15 | lbs.   |  | Fragment  |
| tural Brush/Forest   | 13   |                        | 990130080   |         | <del>                                       </del> | <del>                                       </del> | <del></del>                           | <del></del> | 1   | 0.15 | lbs    |  | Fragment  |
| tural Brush/Forest   | 13   |                        | 990130080   | 4       | <del></del>  | <del> </del>                                       | · · · · · · · · · · · · · · · · · · · |             | T   | 0.1  | iba    |  | Fregment  |
| tural BrustvForest   | 13   | 99013008               | 990130080   | 5       | <u> </u>   | <del></del>  |                                       |             | <del>                                      </del> | 0.19 | lbs    |  | Fragment  |
| tural Brush/Forest   | 13   |                        | 990130080   |         |  | <del>                                       </del> |                                       | _   _       | +-  | 0.19 | fbs    | T  | Fragment  |
| tural Brush/Forest   | 13   | 99013008               |             |         |  | <del></del>  |                                       |             | 1 -   | 0.19 | lbs    |  | Fragment  |
| tural Brush/Forest   | 13   | 99013006               |             |         |  |  |                                       | <del></del> |   |      | ths    |  | Fragment  |
| tural BrustyForest   | 13   | 99013008               |             |         |  |  |                                       | <del></del> | -   | 0.1  | 5 libs |  | Fragment  |
| tural Brush/Forest   | 15   |                        | 990130081   |         |  |  |                                       | <del></del> | +   |      | 5 lbs  |  | Fragment  |
| tural Brush/Forest   | 13   |                        | 990130081   |         |  |  |                                       | <del></del> | +   |      | 5 lbs  |  | Fragment  |
| atural BrustyForest  | 13   | 99013000               | 990130081   | 2       |  |  |                                       | <del></del> | + -   |      | 5 lbs  |  | Fregment  |
| dural Brush/Forest   | 1 1  |                        | 990130081   | 3       |  |  |                                       |             |   |      | 5 lbs  |  | Fragment  |
| rtural Brush/Forest  | 1:   | 99013000               | 990130081   |         |  |  |                                       |             |   |      | 5 lbs  |  | Fragment  |
| tural Brush/Forest   | 1:   | 9901300                | 990130061   | 5       |  |  |                                       |             |   |      | 5 lbs  | <del> </del>                                     | Fragment  |
| stural Brush/Forest  | 1  | 9901300                | 8 990130081 | 6       |  |  |                                       |             | <del></del>                                       |      | 5 lbs  | <del>                                     </del> | Fragment  |
| atural Brush/Forest  | 1 1  | 9901300                | 990130081   | 7       |  |  |                                       |             | <del></del>                                       |      | 5 lbs  | <del>-  </del>                                   | Fragment  |
| atural Brush/Forest  | 1  | 9901300                | 8 990130061 | В       |  |  |                                       |             |   |      | 5 lbs  |  | Fragment  |
| stural BrustyForest  | 1  |                        | 9 990130090 | )1      |  | <u> </u>   |                                       |             |   |      | 5 lbs  |  | Fragment  |
| atural Brush/Forest  | 1  |                        | 9 990130090 |         |  |  |                                       |             |   |      | 5 lbs  | <del></del>                                      | Fragment  |
| atural Brush/Forest  | 1  |                        | 990130090   | 13      |  |  |                                       |             |   |      | 5 1bs  |  | Fragment  |
| atural BrustyForest  | <del>                                     </del> |                        | 9 990130090 |         |  |  |                                       |             | <del>_</del>                                      |      | 5 lbs  | <del></del>                                      | Fragment  |
| atural Brush/Forest  |  |                        | 9 990130090 |         |  |  |                                       |             | -   |      |        | <del>- </del>                                    | Fragment  |
| atural Brush/Forest  |  | 9 9901301              | 1 990130110 | 51      |  |  |                                       |             |   |      | 5 lbs  |  | Fragment  |
| atural Brush/Forest  |  | 3 9901301              | 1 99013011  | 021     |  |  |                                       |             | 4   |      | 5 lbs  |  | Fragment  |
|                      |  | 3 9901301              | 1 990130110 | 13      | 1  |  |                                       |             | →—  |      | 5 tos  |  | Fragment  |
| atural Brush/Forest  |  |                        | 1 99013011  | na      | <del>-  </del>                                     |  |                                       |             |   |      | 5 lbs  |  |           |
| atural Brush/Forest  |  |                        | 1 99013011  |         | 1  | Nail/barbed wire                                   |                                       |             |   |      | 5 lbs  |  | Scrap     |
| tural Brush/Forest   |  |                        |             |         | <del></del>  |  |                                       |             |   |      | 15 %bs |  | Fragment  |
| atural Brush/Forest  |  |                        | 2 99013012  |         | +  |  |                                       | T           |   |      | 15 lbs |  | Fragment  |
| atural Brush/Forest  |  | <u> </u>               | 2 99013012  |         | <del></del>  | <del>                                     </del>   |                                       |             |   |      | 15 lbs |  | Fragment  |
| atural Brush/Forest  |  |                        | 2 00013012  | 04      |  | Bared wire   |                                       |             |   |      | 15 lbs |  | Scrap     |
| atural Brush/Forest  |  |                        | 2 99013012  |         | <del></del>  |  |                                       |             |   |      | 15 lbs |  | Fragment  |
| atural Brush/Forest  |  | 3 9901301              |             |         | +  | <del></del>  |                                       |             | $\neg$  | 0.   | 15 lbs | <u> </u>   | Fragment  |
| atural Brush/Forest  |  |                        | 5 99013015  |         | +  | <del></del>  | <del></del>                           |             |   | Ö.   | 15 lbs |  | Fragmen   |
| latural Brush/Forest | 1 T  | 3 9901301<br>3 9901301 |             |         |  |  |                                       |             | _   |      | 15 lbs |  | Fragment  |

| SECTORS NAME          | OKUD ID            | ANOMALY ID  | OBJECT ID  | EASTING       | NORTHING      | DESCRIPTION   | A           |                    | DEPTH          |                | WEIGHT         |           |                   |
|-----------------------|--------------------|-------------|------------|---------------|---------------|---------------|-------------|--------------------|----------------|----------------|----------------|-----------|-------------------|
| Natural Brush/Forest  | 13                 |             | 9901301505 |               |               | DESCRIPTION   | COMMENTS    | DEPTH              | UNITS          | WEIGHT         | LIMITS         | EYDI Gesa |                   |
| Natural BrustyForest  | 13                 |             | 9901301506 | ·             | ļ <u>.</u>    | <u> </u>      |             |                    |                |                |                | EXPLOSIVE | ORN WANTE         |
| Natural Brust/Forest  | 13                 | ,           | 9901301508 |               | <b></b>       |               |             | <del>  </del> -    | <del> </del> - | 0.15           |                |           | Fragment          |
| Natural Brush/Forest  | 13                 |             | 9901301507 | <b></b> _     |               |               | <del></del> |                    | <u> </u>       | 0.15           |                |           | Fragment          |
| Natural Brush/Forest  | 13                 |             | 9901301508 |               |               |               | ·           |                    | <u> </u>       | 0.15           |                |           | Fragment          |
| Natural Brush/Forest  | 13                 |             | 9901301509 |               |               |               |             |                    |                | 0.15           |                |           | Fragment          |
| Natural Brush/Forest  | 13                 |             | 9901301601 |               |               |               |             |                    | ├              | 0.15           |                |           | Fragment          |
| Vetural Brush/Forest  | 13                 | 99013016    | 9901301602 |               |               |               |             |                    |                | 0.15           |                |           | Fragment          |
| Vatural Brusiv/Forest | 13                 | 99013018    | 9901301603 |               |               |               |             |                    |                | 0.15           | B              |           | Fragment          |
| Vatural Brush/Forest  |                    | 99013016    | 9901301604 |               |               | Barbed wire   | <del></del> |                    |                | D. 15          |                |           | Fragment          |
| latural Brush/Forest  | 13                 | V9013018    | 9901301801 |               |               |               |             |                    |                | 0.15           | be             |           | Scrap             |
| latural Brush/Forest  | 13                 | 99013018    | 9901301802 |               |               |               |             |                    |                | 0.15           | bs             |           | Fragment          |
| latural Brush/Forest  | 13                 | 99013018    | 9901301803 |               |               | Barbed wire   |             |                    |                | 0.15           | bş             |           | Fragment          |
| latural Brush/Forest  | 16                 | 99018001    | 9901600101 |               |               |               |             |                    |                | 0.15           | lbe .          |           | Screp             |
| latural Brush/Forest  | 16                 | 99016002    | 9901600201 |               |               |               |             |                    |                | 1              | lbe            |           | Fregment          |
| latural Brush/Forest  | 18                 | 99016005    | 9901600501 |               |               |               |             |                    |                | 1              | bs             |           | Fragment          |
| atural Brush/Forest   | 16                 | 99016006    | 9901600601 |               |               | <del></del>   |             |                    |                | 3              | ibe            |           |                   |
| atural Brush/Forest   | 16                 | 99016008    | 9901600601 |               |               |               |             |                    |                |                | De.            |           | Fragment          |
| anna Brushi Orest     | 16                 | 99016009    | 9901500901 |               | ·             |               |             |                    |                |                | De             | _         | Fragment          |
| atural BrusivForest   | 15                 | 99015001    | 9901500101 |               |               |               |             | _                  |                | <del>- 1</del> |                |           | regment           |
| atural Brush/Forest   | 15                 | 99015002    | 9901500201 |               |               |               |             |                    |                | 5              |                |           | ragment           |
| atural Brush/Forest   | 15                 | 99015004    | 9901500401 |               | <del>-</del>  |               |             |                    |                | 5              |                |           | ragment           |
| atural Brush/Forest   | 15                 | 99015005    | 9901500501 |               |               | <del> </del>  |             |                    |                | 4              |                |           | regment           |
| etural Brush/Forest   | 15                 | 99015008    | 9901500801 |               | <del></del> - |               |             |                    |                | - 4            |                |           | ragment           |
| eturai Brush/Forest   | 15                 | 99015009    | 9901500901 | <del></del> + | <del></del>   |               |             | 1                  |                | 1              |                |           | ragment           |
| stural Brush/Forest   | 15                 | 99015010    | 9901501001 |               |               | ·             |             |                    |                | 3/1            |                |           | regment           |
| stural BrustvForest   | 15                 |             | 9901501101 | <del></del>   |               |               |             |                    |                |                |                |           | regment           |
| tural Brush/Forest    | 71                 |             | 9907100201 | <del></del> - | <del></del>   |               |             |                    |                | 2 1            |                | <u>_</u>  | ragment           |
| Mural Brush/Forest    | 71                 |             | 9907100301 |               | <u> ^</u>     | Aagnetic Rock |             | <del>-    </del>   |                | 11             | *              |           | ragment           |
| itural Brush/Forest   | 71                 | 99071004    | 9907100401 |               |               |               |             | <del>-   -  </del> |                | 200            |                |           | lagnetic Rock     |
| tural Brush/Forest    | 8                  | P9008001    | 9900400101 |               |               |               |             | ++                 |                | 0.25           |                | F         | ragment           |
| tural Brush/Forest    | - 6                | 99006003    | 9900900101 |               |               |               |             | <del></del>        |                | 2 1            |                | F         | ragment           |
| tural BrustyForest    |                    |             | 9900800401 |               |               |               |             | <del></del>        |                | 2 1            |                |           | regment           |
| tural Brush/Forest    | 8                  |             | 9900800501 |               |               |               |             | <del>+</del>       |                | 2 %            |                | F         | ragment.          |
| tural Brush/Forest    |                    | 99008008    |            |               |               |               |             | ╼┪╌                | <del></del>    | 3 1            |                | F         | ragment           |
| tural BrustyForest    | <del>- 1</del>     | 99008008    | 2000000001 |               |               |               |             | <del></del>        | <del>-</del>   | 2 1            |                |           | ragment           |
| lural Brush/Forest    | - 8                | 99008009    |            |               |               |               |             | ╾╂╼╼╌╁╸            |                | 2 10           | -              | F         | ragment           |
| tural Brush/Forest    | <u>``</u>          |             |            |               |               |               |             | ╌┼──╌┼             |                | 2 10           |                |           | regment           |
| bural Brush/Forest    | <del></del>        |             | 900601001  |               |               |               |             | ╌┼╾┈┼              | <u> </u>       | 1 16           |                |           | agment            |
| ural Brusit/Forest    | <del> </del>       |             | 900001101  |               |               |               |             | <del>-}</del> -    | <del></del> -  | 3 16           |                |           | agment            |
| ural Brush/Forest     | <del>- /</del>     | 99007001 9  |            |               |               |               |             | ━┣━━-╏-            |                | 1 lb           |                |           | agment            |
| ural Brush/Forest     | <del>- : </del> -  | 99007003 9  | NUU700301  |               |               |               |             | ╃                  |                | 0.5 lb         |                |           | agment            |
| ural BrustyForest     | <del>- /</del>   - | 99007004 9  | WU0700401  |               |               |               | ···         |                    |                | 1 16           | •              |           | agment            |
| ural Brush/Forest     |                    | 99007005 9  |            |               |               |               | <del></del> | <del></del>        |                | 4 lb           |                |           | agment            |
| ural Brush/Forest     | -4                 | 99007005 9  | 900700502  |               |               |               | <del></del> | <del></del>        |                | 3 65           | <del>,  </del> | ,         | agment<br>agricus |
| ural Brust/Forest     | 5 _                | 99005001 9  |            |               |               |               |             | -lT                |                | 2 lb           | -              |           | ASD<br>eArinour   |
| ural Brush/Forest     | 5 _                |             | 900500401  |               |               |               |             |                    |                | 3 lbs          |                |           |                   |
|                       | 5                  | 99005005 9  | 900500501  |               |               |               |             |                    |                | 0.5 lbs        |                |           | agment            |
| ural Brush/Forest     | 4                  | 99004001 90 | 900400101  |               |               |               |             |                    |                | 1 lbs          |                |           | agment            |
| ral Brush/Forest      | 4                  | 99004002 99 | 900400201  |               |               |               |             | $T_{}$             |                | 2 lbs          |                |           | gment             |
|                       |                    |             |            |               |               |               | 1           |                    |                | 1 lbs          |                |           | agment            |





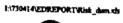
|                      | <u>- ·     </u>                                   | · · · · · · · · · · · · · · · · · · · |             |            | MORTHING     | DESCRIPTION                        | COMMENTS    | DEPTH       | DEPTH<br>UNITS                                   | WEIGHT      | WEIGHT<br>UNITS | EXPLOSIVE  | OBJ NAME |
|----------------------|---|---------------------------------------|-------------|------------|--------------|------------------------------------|-------------|-------------|--|-------------|-----------------|--|----------|
| CTORS NAME           | GRID ID   | ANOMALY ID                            |             |            | NOKINING     | DESCRIPTION                        | <del></del> |             |  | 0.5         | ibs             |  | Scrap    |
| nefarm               | 81  |                                       | 9908100201  |            |              |                                    |             |             |  |             |                 | <u> </u>   | <u> </u> |
| netarm               | 81  |                                       |             |            |              | <del></del> _                      |             | $\neg \neg$ | T"   | Ι           | <u> </u>        | <u> </u>   | <u> </u> |
| nefarm               | 81  | 99081004                              |             |            |              | Sheet metal/barbed wire            |             |             |  | 4           | ibs             | <u> </u>   | Scrap    |
| nefarm               | 61  |                                       | 9908100501  | <b> </b>   | <b></b>      |                                    |             |             |  | 11          | lbs             |  | Scrap    |
| nefarm               | 81  |                                       |             |            |              | Junk                               | Sheet Metal |             |  |             | <u></u>         | <u> </u>   | Scrap    |
| nefarm               | 81  |                                       |             |            |              | Wrought iron fence piece           |             |             |  |             | ibs             |  | Scrap    |
| inefarm              | 81  |                                       | 9908101001  | <u> </u>   | 100100       | 105 mm BE/Inert                    |             |             | in.  |             | ibs             |  | Ordnance |
| inefarm              | 81  | 99081011                              | 9908101101  | 1764043′ 4 | 1112493' 8"  | Horseshoes                         |             |             | Ĭ  |             | ibs             | <u> </u>   | Scrap    |
| inefarm              | 81  |                                       | 9908101201  |            | <b>↓</b>     | Horseshoes                         |             |             |  | 0.25        | ibs             | <del></del>  | Scrap    |
| inefarm              | B1  | 99081013                              |             |            | <b></b>      |                                    | Sheet Metal |             | 1  |             | L'              | <u> </u>   | Scrap    |
| inefarm              | 61  | 99081014                              | 990810140   | <u> </u>   | <b></b>      |                                    | Plow Parts  |             |  | T           |                 |  | Scrap    |
| inefarm              | 61  |                                       | 990810160   |            | <b>_</b>     |                                    |             | -           |  |             | lbs             | <del></del>  | Scrap    |
| inefarm              | 81  |                                       | 990810170   |            | <del></del>  | Conduit                            |             |             |  |             | ibs .           |  | Scrap    |
| inefarm              | 81  |                                       | 990810180   |            | <u> </u>     |                                    |             |             |  | 0.9         | ibs             |  | Scrap    |
| inetarm              | - 61  |                                       |             |            | <del></del>  | Wire/metal strap Concrete & rebarb | <del></del> |             |  |             | lbs             |  | Scrap    |
| Inefarm              | 81  |                                       |             |            | <del> </del> | Concrete & rebarb                  | <del></del> |             |  |             | libs            |  | Scrap    |
| inefarm              | 81  |                                       |             |            | <del></del>  | Concrete & rebarb                  |             |             | T  |             | fbs             |  | Scrap    |
| inefarm              | 81  | 99081022                              |             |            |              | Concrete a receio                  | Metal Rod   |             |  |             |                 |  | Scrap    |
| ²inefarm             | 8   | 99081024                              | 990810240   | 1          |              | 1                                  |             |             |  | 4.          | 5 lbs           |  | Fragment |
| Inefarm              | 117   | 2 99112001                            | 991120010   | 1          |              | Inert fuze                         |             |             |  | 0.          | 4 lbs           | <u> </u>   | Scrap    |
| inelam               | 113   | 2 9911200                             | 991120010   | 2          |              | inert fuze                         |             |             |  | 0.          | 5 lbs           |  | Fragment |
| inefam               | 11:   |                                       | 2 991120020 |            |              | <del></del>                        |             |             |  | 0.          | 6 lbs           |  | Scrap    |
| Pinefarm             | 11:   |                                       | 991120020   |            |              | <del></del>                        |             |             |  | 0.          | 1 lbs           |  | Fragment |
| Pinefarm             | 11:   | 2 9911200                             | 991120030   | 11         |              | <u> </u>                           |             |             |  | Ö           | 1 libs          |  | Scrap    |
| Pinefarm             | 11  | 2 9911200                             | 3 991120030 | 12         |              | <del></del>                        |             |             |  | 0           | 1 1bs           |  | Fragment |
| Pinefam              | 11  | 2 9911200                             | 4 991120040 | 11         |              |                                    |             |             |  |             | .1 lbs          |  | Scrap    |
| Pinefarm             | 11  | 2 9911200                             | 4 991120040 | )2         | <u> </u>     |                                    |             |             | _  | - 0         | 6 lbs           |  | Fragment |
| Pinefarm             | 11  | 2 9911200                             | 5 991120050 | )1         |              |                                    |             |             |  | 0           | .6 lbs          |  | Scrap    |
| Pinefarm             | 11  | 2 9911200                             | 5 991120050 | )2         |              |                                    |             |             | +  |             | .3 lbs          |  | Fragment |
| Pinefarm             | 11  | 2 9911200                             | 6 991120060 | 01]        |              |                                    |             | <del></del> | <del>                                     </del> | 1           | .5 fbs          |  | Scrap    |
| Pinefarm             | 11  | 2 9911200                             | 6 991120060 | 02         |              |                                    |             |             | 1-   | 0.1         | 75 libs         |  | Fragment |
| Pinefarm             | 11  | 2 9911200                             | 8 99112008  | 01         |              |                                    |             |             |  |             | .5 fbs          |  | Scrap    |
| Pinefarm             | 11  |                                       | 8 99112008  | 02         |              |                                    | <del></del> |             |  | 0.:         | 25 lbs          |  | Fragment |
| Pinefarm             | 11  |                                       | 99112009    |            |              | inert fuze                         |             | <del></del> | <del></del>                                      |             | .6 lbs          |  | Scrap    |
| Pinefarm             | 11  | 9911200                               | 9 99112009  | 02         |              |                                    |             |             | +-   |             | .5 lbs          |  | Fragment |
| Pinefarm             | 11  | 9911201                               | 0 99112010  | 01         |              |                                    |             |             | <del>-   -</del>                                 |             | 7 lbs           |  | Screp    |
|                      | <del></del>                                       |                                       | 0 99112010  |            |              | <u> </u>                           |             |             | +  |             | 25 lbs          |  | Fragment |
| Pinefarm<br>Dinefarm | <del>-   -    </del>                              |                                       | 1 99112011  |            |              | <u> </u>                           |             | <del></del> | -  |             | ),B lbs         |  | Scrap    |
| Pinefarm             | <del>-                                     </del> |                                       | 1 99112011  | 02         |              |                                    |             |             | <del>- 1 -</del>                                 |             | 1.5 lbs         | <del></del>  | Fragment |
| Pinefarm             | <del>-   -  </del>                                |                                       | 3 99112013  | 01         |              |                                    |             |             |  |             | 0.8 lbs         |  | Scrap    |
| Pinefarm             | <del>-   -  </del>                                |                                       |             |            |              |                                    |             |             | <del>                                     </del> |             | 2.5 lbs         | <del>-     -   -     -     -                </del> | Fragment |
| Pinefarm             | <del>-                                     </del> |                                       | 4 99112014  |            |              |                                    |             |             | <del>                                     </del> |             | 0.1 lbs         |  | Scrap    |
| Pinefarm             |   | 12 991120                             | 14 99112014 | 02         |              |                                    |             |             |  |             | 0.5 lbs         |  | Fragmen  |
| Pinefarm             |   | 12 991120                             | 15 99112015 | 01         |              |                                    |             |             |  |             | 0.3 lbs         | <del></del>  | Scrap    |
| Pinefarm             | _ I   |                                       | 15 99112015 | 102        |              |                                    |             |             |  |             | .25 lbs         | <del></del>  | Fragmen  |
| Pinefarm             |   |                                       | 16 99112016 |            |              |                                    |             |             |  | <del></del> | 3 lbs           | <del>- [                                   </del>  | Scrap    |
| Pinefarm             |   |                                       | 18 99112016 |            | <del></del>  |                                    |             |             |  | -+-         | 3 lbs           |  | Fragmen  |
| Pinefarm             | <u> </u>  |                                       | 01 99111001 |            |              | <del>-  </del>                     |             | ı           | 1  | 1           | J 105           |  | 1        |

| SECTORS NAME       | GRID ID | ANOMALY ID | OBJECT ID                               | EASTING   | NORTHING  | DESCRIPTION  | COMMENTS                               | DED-:   | DEPTH   |                              | WEIGHT  |                    |
|--------------------|---------|------------|---|---|---|--|--|---|---|------------------------------|---------|--------------------|
| Pinefarm           | 111     | 9911100    | 9911100201                              |   | ╅──-  | <del></del>  | OGMIZH13                               | DEPTH   | UNITS   | WEIGHT                       | UNITS   | EXPLOSIVE OBJ NAME |
| Pinefarm           | 111     |            | 9911100301                              |   | <del></del>                                       | · <del>[ · · · · · · · · · · · · · · · · · ·</del> |  |   |   | ]                            | lbs     | T                  |
| Pinefarm           | 111     | 99111005   | 9911100501                              | <del>                                      </del> | <del>1</del>                                      | <del></del>  |  |   |   |                              | lbs     | Fragment           |
| Pinetarm           | 111     | 99111007   | 9911100701                              | †=  | <del> </del>                                      | <del></del>  |  |   |   |                              | lbs     | Fragment           |
| Pinefarm           | 111     | 99111008   | 9911100801                              | <del>                                     </del>  | <del> </del>                                      | <del></del>  |  |   |   |                              | be      | Fragment           |
| Pinetarm           | 111     | 99111010   | 9911101001                              | <del> </del>                                      | <del> </del>                                      | <del></del>  |  |   |   |                              | lbs.    | Fragment           |
| inefarm            | 111     | 99111011   | 9911101101                              | <del> </del>                                      | <del> </del>                                      | <del></del>  |  |   | -   |                              | los     | Fragment           |
| inefarm            | 111     | 99111012   | 9911101201                              | <del> </del> -                                    | <del>/</del> -                                    | <del> </del>                                       |  |   |   |                              | lbs     | Fragment           |
| inelam             | 110     | 99110001   |   | <del></del>                                       | <del> </del> -                                    | Fuze (inert/frag)                                  |  |   |   |                              | lbs     | Fragment           |
| inelam             | 110     |            | 9911000201                              | <u> </u>  | <del> </del>                                      | <del>-</del>                                       |  |   |   | <del> </del>                 | <u></u> | Fragment           |
| inelarm            | 110     |            | 9911000401                              |   |   | ·  |  |   |   | <del>├</del> ── <del>─</del> |         | <del> </del>       |
| inefam             | 110     |            | 9911000601                              |   | <del> </del>                                      |  |  |   |   |                              | bs      | Fragment           |
| Inefarm            | 110     | 99110007   | 9911000701                              |   | <del>                                      </del> |  |  |   |   | 0.25                         |         | Fragment           |
| inelam             | 110     | 99110006   | *************************************** | <u> </u>  | <del> </del>                                      | ·  |  | <del></del>                                       |   | 0.5                          |         | Fragment           |
| refarm             | 110     |            | 9911001001                              |   | L   |  |  | <del></del>                                       |   |                              | D\$     | Fragment           |
| ineform            | 110     | 99110010   | 9911001001                              | 4204000   |   |  |  | <del></del>                                       |   | <b> </b>                     |         |                    |
| inelam             | 110     | 90110010   | 9911001002<br>9911001201                | 1/6409813   | 1112172'6"  | 105 mm BE/Inert                                    |  | - 6   |   | 0.25                         |         | Fragment           |
| ond                | 173     | 99110012   | 9911001201                              |   |   |  |  | <del>-   -                                 </del> | n   | 25 [                         |         | Ordnance           |
| ond                | 175     | 99173001   | 9917300101                              |   |   |  |  | <del>-   </del>                                   |   | 0.25                         |         | Fragment           |
| ond                | 176     | 991/5001   | 9917500101                              |   |   |  | ************************************** | <del></del>                                       |   | 0.5                          |         | Fragment           |
| ond                |         | 99176001   | 9917600101                              |   |   |  | <del></del>                            |   |   | 0.25                         |         | Fragment           |
| ond                | 176     |            | 9917600201                              |   |   | <del></del>  | <del></del>                            | <del></del>                                       |   | 0.33 8                       |         | Fragment           |
| ond                | 176     |            | 9917600301                              |   |   |  | ·                                      |   |   | 0.33 #                       | 38      | Fragment           |
| and one            | 138     | 99138001   | 9913800101                              |   |   |  |  |   |   | 0.33 8                       | *       | Fragment           |
| and                | 138     |            | 9913800102                              |   |   | <del></del>  |  |   |   | 0.15 #                       | ×       | Fragment           |
| and                | 138     |            | 9913800201                              |   |   |  |  |   |   | 1 1                          | *       | Scrap              |
| and I              | 138     |            | 9913800301                              |   |   |  | <del></del>                            |   |   | 0.15                         | 28      | Fragment           |
| and -              | 138     |            | 9913800401                              |   |   |  |  |   |   | 0.15 N                       | × 1     | Fragment           |
| and I              | 139     | 99139001   |   |   |   |  | <del></del>                            | $\perp$   | $ egin{array}{c}                                    $ | 0.15 %                       | × 1     | Fragment           |
| ind'               | 193     |            | 9919300201                              |   |   |  | <del></del>                            |   |   |                              |         |                    |
| nd .               | 193     |            | 9919300301                              |   |   |  | <del></del>                            | $\bot$  |   | 0.5                          |         | - Engage           |
|                    | 195     | 99195001   | 9919500101                              |   |   | Magnetic Rock                                      |  |   |   | 2.5 lb                       |         | Fragment           |
| nd                 | 194     | 99194001   | 9919400101                              |   |   | magnesic rock                                      |  |   | $\overline{}$   |                              | ~       | Scrap              |
| nd                 | 194     | 99194002   | 9919400201                              |   |   |  | ·                                      |   |   | 0.25 tb                      |         | Magnetic Roci      |
| nd                 | 194     | 99194004   |   |   |   |  |  |   |   | 0.25 lb                      |         | Fragment           |
| tural Brush/Forest | 197     | 99197001   | 9919700101                              |   | <del></del>                                       |  |  |   | -   | 0.25 b                       |         | Fregment           |
| ural Brush/Forest  | 198     | 99198001   |   |   | <del></del>                                       |  |  |   |   | 1 16                         |         | Fragment           |
| tural Brush/Forest | 196     | 99198003   | 9919800301                              | -+  | <del></del>                                       |  |  |   |   | 0.33 lb                      |         | Fragment           |
| tural BrustvForest | 199     | 99199001 1 | 919900101                               | <del>-  </del>                                    | <del></del>                                       |  |  |   |   | 0.33 85                      |         | Fragment           |
| ural Brush/Forest  | 199     | 99199004   | 919900401                               | -+  |   |  |  |   | <del>- +</del>  | 1.4 fb                       |         | Fragment           |
| ural Brush/Forest  | 199     | 99199005   |   | <del></del> +                                     | <del></del>                                       |  |  | <del>-    </del> -                                |   | 1.4 lb                       |         | Scrap              |
| ural Brush/Forest  | 199     | 99199007   | 919900701                               | <del></del>                                       | <del></del>                                       |  |  | <del>-  </del>                                    |   | 1.4 lbs                      |         | Scrap              |
| ural Brush/Forest  | 200     | 99200001 9 | 920000101                               |   | <del></del>                                       |  |  | <del>-  -</del>                                   | -+  |                              |         | Scrap              |
| ural Brush/Forest  | 200     | 99200002 9 | 920000201                               | <del></del>                                       | ———   |  |  | <del></del>                                       | <del>-</del> +  | 1.4 lbs                      |         | Scrap              |
| darm               | 205     |            | 920500201                               | <del></del> -                                     |   |  |  | ┸╂╼═╌╌╋╼  | +   | 0.33 lbs                     |         | Fragment           |
| sfarm              | 205     |            | 920500301                               | $-\!\!\!\!-\!\!\!\!\!+$                           |   |  |  | ╼   |   | 0.33 lbs                     | ſ       | Fragment           |
| Herm               | 205     |            | 920500501                               |   |   |  |  | <del></del>                                       | <b></b>   | 0.25 lbs                     |         | Fragment           |
| Marm               | 205     |            |   |   |   |  |  | ╼╂┈━╌╂╼   | <b></b>   | 0.25 ibs                     |         | Fragment           |
| /s/m               | 205     |            | 920500601                               |   |   |  | <del></del>                            | <del></del>                                       |   | 0.25 lbs                     |         | Fragment           |
| _ <del></del>      | 200]    | 99205007 9 | 82U0UU701   17                          | 64519' 2 11                                       | 10846" 10" 1                                      | 05 mm BE/Inert                                     |  | <del></del>                                       |   | 0.25 lbs                     |         | Fragment           |



|                      |         |            |             |  |  |   | ····          |  | DEPTH   |  | WEIGHT |  |                      |
|----------------------|---------|------------|-------------|--|--|---|---------------|--|---|--|--------|--|----------------------|
| SECTORS NAME         | GRID ID | ANOMALY ID | OBJECT ID   | EASTING  | NORTHING   | DESCRIPTION                                       | COMMENTS      | DEPTH  | UNITS   |  | UNITS  | EXPLOSIVE  |                      |
| N                    | 205     | 99205007   | 9920500702  |  | <u> </u>   |   |               |  |   | 0.25   |        | ļ  | Fragment             |
| Inefarm              | 205     | 99205008   | 9920500601  |  | -  |   |               |  |   | 0.25   |        |  | Fragment             |
| inefarm              | 205     | 99205009   |             | <del>                                     </del> |  |   |               | <u> </u>   |   | 0.25   |        | <del> </del>                                     | Fragment             |
| Pinefarm             | 205     | 99205010   |             | 1——  | <del>                                     </del> |   |               |  |   | 0.25   |        | <del> </del>                                     | Fragment<br>Fragment |
|                      | 205     |            |             |  |  |   |               | <u> </u>   |   | 0.25   |        | <del></del>                                      | Fragment             |
| Pinefarm<br>Pinefarm | 205     |            |             | · · · · · · ·                                    |  |   |               | ļ  | L   | 0.25   |        | <b>├</b>   | Fragment             |
| Inefam               | 205     |            | 9920501401  | -  |  |   |               | <b>.</b>   | ļ   | 0.25   |        | <del> </del>                                     | Fragment             |
| inefarm              | 205     |            |             |  |  |   |               | <u> </u>   | ļ   | 0.25   |        | <del> </del>                                     | Fragment             |
| inefarm              | 205     |            |             |  |  |   |               |  |   | 0.25<br>1.25                                     |        | <del> </del>                                     | Fragment             |
| inefarm              | 206     |            |             |  |  |   |               | <u> </u>   | <u> </u>  |  |        |  | Fragment             |
| inelarm              | 206     |            |             |  |  |   |               |  | <u> </u>  | 1.25   |        | ╂───   | Fragment             |
| inefarm              | 208     |            |             |  |  |   |               | ╄  |   | 1.25   |        | <del>                                     </del> | Fragment             |
| inefam               | 206     | 1          |             | 1  | 1  |   |               | ∔  | <del></del>                                       | 1.25<br>1.25                                     |        | <del> </del>                                     | Fragment             |
| Pinefarm             | 208     |            |             |  | ]  |   |               | ╄  | <b>├</b>  | 1.25   |        | +  | Fragment             |
| Pinefarm             | 208     |            |             |  |  |   |               | <del> </del>                                     | <del> </del>                                      | 1.25   |        | +  | Fragment             |
| inefarm              | 208     |            |             |  | I  |   |               | <del>                                     </del> | <del>{</del>                                      | 1.25   |        | +  | Fragment             |
| inefarm              | 206     |            | 9920800901  |  |  |   |               | +  | <del></del>                                       | 1.25   |        | +  | Fragment             |
| inefam               | 208     |            | 9920601101  |  |  |   |               | <del></del>                                      | <del> </del>                                      | 1.2  | 100    |  |                      |
| Pinefarm             | 207     |            |             |  |  |   |               | <del>                                     </del> | <del>-</del>                                      | 0.25   | ibs    | <del> </del>                                     | Fragment             |
| Pinefarm             | 207     | 99207002   |             |  |  |   |               |  | +   |  | ibs    |  | Fragment             |
| inefarm              | 207     |            | 992070040   | 1  |  |   |               | +  | <del> </del>                                      | <u> </u>   | ibs    | <del>                                     </del> | Fragment             |
| inefarm              | 207     | 99207000   | 992070060   | 1  |  |   |               | +  | <del>                                      </del> | <del>  ""</del>                                  | 1      | 1  |                      |
| inefarm              | 207     | 99207007   |             |  |  |   |               |  | ┾   | 1 0 2  | 5 libs | <del>                                     </del> | Fragment             |
| Pinefarm             | 207     | 9920700    | 992070090   | 1  |  |   |               | <del></del>                                      | <del> </del>                                      |  | 5 lbs  |  | Fragment             |
| Pinefarm             | 207     | 9920701    | 992070110   | 1  | <u> </u>   | <u></u>   |               | +  | <del>                                     </del>  |  | 5 libs |  | Fragment             |
| Pinefarm             | 207     | 9920701    | 992070130   | <u> 1                                   </u>     |  |   |               | +  | 1   |  | b      |  | Fragment             |
| Pinefarm             | 201     | 9920800    | 1 992000010 |  |  |   |               | +  | <del></del>                                       |  | 5 fbs  |  | Fragment             |
| Pinefarm             | 201     | 9920600    |             |  | <u> </u>   |   |               |  | <del>                                     </del>  |  | 1 lbs  |  | Fragment             |
| Pinefarm             | 200     | 9920800    |             |  |  |   |               | +  | <del>1</del> -                                    |  | 1 Rbs  |  | Fragment             |
| Pinefarm             | 200     |            |             |  |  | ļ   |               | ┪—   | <del>                                     </del>  |  | 5 lbs  | <del>                                     </del> | Fragment             |
| Pinefarm             | 20      |            | 8 992080080 |  |  |   |               | 1  | + -   |  | 2 lbs  | T -  | Fragment             |
| Pinefarm             | 20      |            |             |  |  | <del> </del>                                      |               |  | +   | 0.   | 5 lbs  |  | Fragment             |
| Pinefarm             | 20      |            |             |  | <u> </u>   | <del></del>                                       |               | <del></del>                                      | +   |  | 5 lbs  | 1  | Fragment             |
| Pinefarm             | 20      | 9920801    |             |  | <u> </u>   | <del> </del>                                      |               | <del>-                                    </del> | +   |  | 5 lbs  |  | Fragment             |
| Pinefarm             | 20      | 9920801    | 5 992080150 | 1  | <del></del>                                      | <del></del>                                       |               | +  | +   |  | 1 lbs  |  | Fragment             |
| Pinefarm             | 20      |            | 6 992080160 |  | 4  |   |               |  | +   | <del>1 -</del>                                   | 2 lbs  |  | Fragment             |
| Pinefarm             | 20      |            |             |  | <del></del>                                      | <del>                                      </del> |               | +  | <del>                                     </del>  | 0.2  | 5 lbs  | 1  | Fragment             |
| Pinefarm             | 20      |            | 9 992080190 |  |  |   | _ <del></del> | 1-   | <del>- </del>                                     |  | 5 lbs  |  | Fragment             |
| Pinetarm             | 20      |            | 0 992080200 |  | <del></del>                                      |   |               | +  | +   |  | 5 fbs  | - <del> </del>                                   | Fragment             |
| Pinefarm             | 20      |            |             |  |  | <b>-</b>  |               | +  | 1   |  | 5 lbs  |  | Fragment             |
| Pineferm             | 18      |            |             | 11   |  |   |               | +  | +   | <del>                                     </del> |        | <b>—</b>   |                      |
| Pinefarm             | 10      | 2 9918200  |             |  |  | <del> </del>                                      |               |  | + -   | 0.3  | 5 lbs  |  | Fragment             |
| Pinefarm             | 18      |            | 4 991820040 |  | <u> </u>   | <del> </del>                                      |               | -  | +   |  | 5 lbs  |  | Fragment             |
| Pinefarm             | 18      |            |             |  |  | <del> </del>                                      |               | +  | <del> </del>                                      |  | .5 lbs |  | Fragment             |
| Pinefarm             | 18      |            |             |  |  | <del></del>                                       |               | 1  |   |  | 25 lbs | <del>                                     </del> | Fragment             |
| Pinefarm             | 18      |            |             |  |  | <del></del>                                       |               | <del></del>                                      | +-  |  | 25 lbs |  | Fragment             |
| Pinefarm             | 18      |            |             |  | <b></b>  |   |               | -1   |   |  | .5 lbs |  | Fragment             |
| Pinefarm             | 16      | 2 9918201  | 0 991820100 | )1[  |  | <u> </u>  |               |  |   | <del></del>                                      | 1:     |  |                      |

| SECTOR'S NAME | GRID ID | ANOMALY ID | OBJECT ID   | EASTING        | NORTHING      | DESCRIPTION                           | COMMENTS     | DEPTH              | DEPTH         | 1151015 | WEIGHT   |               |             |
|---------------|---------|------------|-------------|----------------|---------------|---------------------------------------|--------------|--------------------|---------------|---------|----------|---------------|-------------|
| Pinefarm      | 182     |            | 9918201101  |                |               |                                       |              | DEFIN              | UNITS         | WEIGHT  | UNITS    | EXPLOSIVE     | OBJ NAME    |
| Pinefarm      | 182     | 99182012   | 9918201201  |                |               |                                       |              |                    |               | 1       | lbs      |               | Fragment    |
| Pinefarm      | 182     | 99182014   | 9918201401  |                |               | ·                                     |              | <del></del>        |               | 0.5     |          |               | Fragment    |
| Pinefarm      | 182     | 99182015   | 9918201501  |                |               |                                       | <del></del>  |                    |               | 0.25    | 8        |               | Fragment    |
| inetarm       | 162     | 99182018   | 9918201601  | 1              |               |                                       |              |                    |               | 0.25    | 5        |               | Fragment    |
| inefarm       | 182     | 99182017   | 9916201701  |                |               |                                       | <del></del>  |                    |               | 0.25    | Nos.     |               | Fragment    |
| inefarm       | 183     |            | 9918300301  |                |               | <del></del>                           | <del></del>  |                    |               | 0.5     |          |               | Fragment    |
| inelarm       | 183     |            | 9918300401  |                |               |                                       |              |                    |               | 0.5     | 8        |               | Fragment    |
| ineterm       | 183     | 99183005   | 9918300501  |                |               |                                       | <del></del>  |                    |               | 0.5     |          |               | Fragment    |
| inefami       | 183     | 99183006   | 9918300601  |                |               |                                       | <del></del>  |                    |               | 0.5     |          |               | Fragment    |
| krefarm       | 183     | 99183009   | 9918300901  |                |               |                                       | <del></del>  |                    |               | 0.25    |          |               | Fragment    |
| inetarm       | 183     | 99183011   | 9918301101  |                | -             |                                       |              |                    |               | 0.5     |          |               | Fragment    |
| inetarm       | 183     | 99183012   | 9918301201  |                |               |                                       |              |                    |               | 0.25    |          |               | Fragment    |
| Ynefarm       | 183     | 99183013   | 9918301301  |                |               | ·                                     | <del> </del> |                    |               |         | Ď        |               | Scrap       |
| inefarm       | 183     | 99183018   | 9916301601  |                |               |                                       | <del></del>  |                    |               | 0.25    | lbe      |               | Fragment    |
| inefarm       | 183     | 99183017   | 9918301701  |                |               | · · · · · · · · · · · · · · · · · · · |              |                    |               | 0.25    | bs       |               | Fragment    |
| ineterm       | 183     | 99183019   | 9918301901  |                |               |                                       | <del></del>  |                    |               | \$      | lbs      |               | Fragment    |
| inefarm       | 183     |            | 9918302101  |                |               | Magnetic Rock                         |              |                    |               | 0.25    | lbs      |               | Fragment    |
| inefarm       | 184     |            | 9918400201  |                |               | magnesic rock                         |              |                    |               |         |          |               | Magnetic Ro |
| inelarm       | 184     |            | 9916400202  |                |               | ·                                     | ······       |                    |               | 0.5     | lbs      |               | Fragment    |
| inetarm       | 184     |            | 9918400301  |                |               | · · · · · · · · · · · · · · · · · · · | ·            |                    |               | 0.25    | be       |               | Scrap       |
| inelarm       | 184     |            | 9918400401  |                |               |                                       | <del></del>  |                    |               | 1       | bş .     |               | Fragment    |
| inefarm       | 184     |            | 9918400501  |                |               | · · · · · · · · · · · · · · · · · · · | ·            |                    |               | 1       | be       |               | Fragment    |
| inefarm       | 184     |            | 9918400502  | _              |               | <del></del>                           |              |                    |               | 1       | D\$      |               | Fragment    |
| inelarm       | 184     |            | 9918400601  |                | <del></del>   | ·                                     |              |                    |               | 2       | bs       |               | Scrap       |
| iveform       | 184     |            | 9918400602  |                |               | ·                                     |              |                    |               | 1       | bs       |               | Fregment    |
| Ineterm       | 184     |            | 9918400801  |                |               |                                       |              |                    |               | 0.25    | bs       |               | Screp       |
| nefarm        | 184     |            | 9918400901  | <del></del>    | <del></del>   |                                       |              |                    |               | 21      |          |               | Fragment    |
| nefarm        | 184     |            | 9918401001  | <del></del>    |               |                                       |              |                    |               | 11      | be       |               | Fragment    |
| inefarm       | 184     |            | 9918401101  |                |               | <del></del>                           |              |                    | $\Box$        | 0.5     | be       |               | Fragment    |
| netarm        | 184     | 99184013   | 9918401301  | <del></del>    | <del></del>   | <del></del>                           |              |                    |               | 0.5     |          |               | Fragment    |
| nefarm        | 184     | 99184014   |             |                |               |                                       |              |                    |               | 0.25    | bs       | $\overline{}$ | ragment     |
| nefarm        | 184     | 99184015   | 9918401501  |                |               | <del></del>                           |              | T                  |               | 0.25    | bs.      |               | ragment     |
| nefarm        | 184     | 99184017   | 9918401701  | <del></del> +  |               |                                       |              |                    |               | 0.25    |          |               | ragment     |
| neterm        | 184     | 99184016   | 9918401801  | <del></del>    | <del></del>   |                                       |              |                    |               | 0.25    |          |               | ragment     |
| nefarm        | 184     | 99164019   | 9918401904  | <del></del>    | <del></del>   |                                       |              |                    |               | 0.25    |          |               | regment     |
| nefam         | 184     | 99184020   | 00184020041 |                |               |                                       |              | _   _              |               | 0.25    |          |               | ragment     |
| nefarm        | 181     | 99181001   |             |                |               |                                       |              |                    |               | 0.5     |          |               | ragment     |
| nefarm        | 181     | 99181001 1 |             | <del></del>    |               |                                       |              |                    |               | 0.5     |          |               | ragment     |
| nefarm        | 161     | 99181002 1 |             | <del></del>  - | ——            |                                       |              |                    |               | 0.5     |          |               | Crap        |
| refarm        | 181     | 99181002   |             | <del></del> -  | <del></del> - |                                       |              |                    |               | 0.25    |          |               |             |
| refarm        | 181     |            | 918100301   |                |               |                                       |              | 1                  |               | 0.5     |          |               | crap        |
| efarm         | 181     | 99181004   |             |                |               |                                       |              | <del>     </del>   |               | 1 1     |          |               | Scrap       |
| efarm         | 181     |            |             |                |               |                                       |              | <del> </del>       |               | 0.25    |          |               |             |
| efarm         | 181     | 99181006 ( | 04640076    | —↓             |               |                                       |              | <del></del> +      | <del></del> + | 0.25 8  |          |               | ragment     |
| efarm         | 181     | 99181007 ( |             |                |               |                                       |              | <del>+</del>       | <del>+</del>  | 0.25 R  |          |               | ragment     |
| efarm         |         | 99161006   |             |                |               |                                       |              | <del>-   -  </del> | +             | 0.23 K  |          |               | ragment     |
| efarm         | 181     | 99181010   |             |                |               |                                       |              | <del></del>        | +             |         |          |               | Стар        |
| CARP 111      | 181     | 99161012 9 | W18101201   |                |               |                                       | <del></del>  | <del></del>        |               | 0.5 R   | ×5<br>•6 | IF            | ragment     |



| BECTORS NAME  | GRID ID | ANOMALY ID | OBJECT ID                | EASTING          | NORTHING  | DESCRIPTION                                      | COMMENTS    | DEPTH            | DEPTH<br>UNITS | WEIGHT   | WEIGHT<br>UNITS | EXPLOSIVE    |          |
|---------------|---------|------------|--------------------------|------------------|---|--|-------------|------------------|----------------|----------|-----------------|--------------|----------|
| ECIONO INCINE |         |            |                          |                  |   | <del></del>                                      | · T         |                  |                | 5        | lbs             |              | Scrap    |
| inefarm       | 181     |            | 9918101301               |                  | <del></del>                                       | Tin  |             |                  |                |          |                 | <u> </u>     | Scrap    |
| inefarm       | 161     |            | 9918101401               |                  |   | Tin  |             |                  |                | Τ        | <u> </u>        |              | Scrap    |
| inefarm       | 181     |            | 9918101601               | -                | <del></del>                                       | <del>  ''''</del>                                |             | "                |                |          | fbs             | <u> </u>     | Fragment |
| inefarm       | 181     |            | 9918101801               | <del> </del>     | <del></del>                                       |  |             |                  | <u>.</u>       |          | ibs             |              | Scrap    |
| inefarm       | 181     | 1          | 9918101802               |                  | <u> </u>  |  |             |                  |                |          | lbs             | <u> </u>     | Scrap    |
| Inefarm       | 181     |            | 9918101901               |                  |   |  |             |                  |                | 0.25     |                 | <del></del>  | Fragment |
| inefarm       | 181     |            | 9918102101               |                  | <del> </del>                                      |  |             |                  |                | 2        | lbs             |              | Scrap    |
| inefarm       | 181     |            |                          | <del></del>      | <del> </del>                                      |  |             |                  | <u> </u>       |          | <u> </u>        |              |          |
| inefarm       | 181     |            | 9918102501               | <del> </del>     | <del>                                     </del>  | Tin  |             |                  | <u> </u>       |          | ibs             |              | Scrap    |
| inefarm       | 181     |            |                          |                  | <del>                                     </del>  |  |             |                  | <u> </u>       | 0,25     |                 |              | Scrap    |
| ond           | 142     |            |                          |                  | <del>                                      </del> |  |             |                  |                |          | lbs             | <del> </del> | Fragment |
| ond           | 142     |            | 991420040                |                  | <del>                                     </del>  |  |             |                  |                |          | lbs .           | <b></b>      | Fragment |
| ond           | 143     |            |                          |                  | <del>                                     </del>  | <u> </u>   |             |                  |                |          | lbs             |              | Fragment |
| ond           | 143     |            | 991420090                |                  | <del>                                     </del>  |  |             |                  |                |          | ibs             |              | Fragment |
| ond           | 14:     |            | 991420100                |                  | +   |  |             |                  |                |          | 5 fbs           | <u> </u>     | Fragment |
| ond           | 14      |            |                          |                  | +   |  |             |                  |                |          | lbs             | <del> </del> | Fragment |
| ond           | 12      |            | 991270020                |                  | <del>                                     </del>  |  |             |                  | <u> </u>       |          | 1 lbs           |              | Scrap    |
| ond           | 12      |            |                          |                  | +   |  |             |                  | I <u> </u>     |          | 5 lbs           |              | Fragment |
| ond           | 12      |            |                          |                  | +   |  |             |                  | I              |          | 5 lbs           |              | Screp    |
| ond           | 12      |            |                          |                  | +   | Barbed wire                                      |             |                  |                | 0.       | 5 libs          |              | Fragment |
| ond           | 12      |            |                          | <del>' </del>    | + -   | 541404 1111                                      |             |                  |                | <u> </u> |                 |              | <u> </u> |
| ond           | 12      | 7 99127000 | 7 991270070              | <del> </del>     | +   |  |             |                  |                |          | 1 lbs           |              | Screp    |
| ond           | 12      |            | 9 991270090              | <del>: </del>    | +   |  |             |                  |                |          | 5 lbs           |              | Scrap    |
| Pond          | 12      |            | 0 991270100              |                  | +   | <del> </del>                                     |             |                  |                |          | 5 lbs           |              | Scrap    |
| ond           | 12      |            | 1 991270110              |                  | +   | <u> </u>   |             |                  |                |          | 5 lbs           |              | Scrap    |
| ond           | 12      |            |                          |                  |   |  |             |                  |                |          | 5 fbs           |              | Scrap    |
| Pond          | 12      | 7 9912701  | 4 991270140              |                  |   |  |             |                  |                |          | 5 lbs           |              | Scrap    |
| Pond          | 12      |            | 5 991270150              | <del>'} </del>   | +   |  |             |                  |                |          | 1 lbs           |              | Scrap    |
| Pond          | 12      |            | 6 991270160              | 4                | +   |  |             |                  |                | 0.       | 5 libs          |              | Screp    |
| Pond          | 12      |            | 7 991270170              | <del>'  </del>   | +   |  |             |                  |                |          | 1 lbs           |              | Scrap    |
| Pond          | 12      |            |                          |                  | <del></del>                                       |  |             |                  |                | 0.2      | 5 lbs           | <del></del>  | Scrap    |
| Pond          | 12      |            | 9 991270190              |                  | +   | <del> </del>                                     |             |                  |                |          | 2 lbs           |              | Screp    |
| Pond          | 12      | 9912702    | 991270200<br>1 991280010 | <del>'' </del>   | <del>- </del>                                     | <del>                                     </del> |             |                  |                |          | 2 lbs           |              | Fragment |
| Pond          | 12      |            | 991280040                | 14               | + -   | <del> </del>                                     |             |                  |                |          | 3 lbs           |              | Scrap    |
| Pond          | 12      |            | 991280050<br>991280050   | <del>'' </del> - |   |  |             |                  |                |          | 2 lbs           |              | Scrap    |
| Pond          |         |            |                          |                  | <del> </del> -                                    | <u> </u>   |             |                  |                | 0        | .5 lbs          |              | Scrap    |
| Pond          | 12      |            | 6 991280060              |                  | +   | <u> </u>   |             |                  |                |          | 5 lbs           |              | Screp    |
| Pond          |         |            | 8 991280080              |                  | +   | <del> </del>                                     |             |                  |                |          | 5 lbs           |              | Fragment |
| Pond          |         |            | 0 99128010               |                  | <del></del>                                       | <del> </del>                                     |             |                  |                |          | .5 lbs          |              | Scrap    |
| Pond          |         |            | 2 99128012               |                  | <del> </del> -                                    | <del> </del>                                     | -           |                  |                |          | .5 lbs          |              | Fragment |
| ond           |         |            | 99141001                 |                  |   | <del>                                     </del> |             |                  | T              | Ţ,       | .5 lbs          |              | Fragment |
| Pond          |         | 9914100    | 99141002                 | <del>! </del> -  |   | <del></del>                                      |             | <del>-  </del> - |                |          | ).5 lbs         |              | Fragment |
| Pond          |         |            | 99141005                 | 71               | <del></del>                                       | <del>                                     </del> | <del></del> |                  |                |          |                 |              |          |
| Pond          |         | 41 9914100 |                          |                  |   | <del> </del>                                     |             |                  | 1              | 7        | ).5 lbs         |              | Fragment |
| Pond          |         |            | 8 99141006               |                  | <b>_</b>  | <del></del>                                      |             | <del></del>      | $\top$         | 0.       | 25 lbs          |              | Fragment |
| Pond          |         |            | 99141009                 |                  |   | <del>                                     </del> |             | <del></del>      | $\top$         | 0.       | 25 lbs          |              | Fragment |
| Pond          | 1       |            | 01 99136001              |                  | <del></del>                                       | <del></del>                                      |             | <del>-   -</del> |                | 0.       | 25 lbs          |              | Fragment |
| Pond          | 1       | 38 991360  | 02 99136002              | 01               |   | <u></u>  |             |                  |                |          |                 |              |          |

| SECTORS NAME         | GRID ID A | INOMALY ID | OBJECT ID  | EASTING       | NORTHING   | <b>DESCRIPTION</b>                                | COMMENTS                              | DERT:            | DEPTH         |  | WEIGHT |  |                      |
|----------------------|-----------|------------|------------|---------------|--|---|---------------------------------------|------------------|---------------|--|--------|--|----------------------|
| Pond                 | 136       | 99136003   |            |               | 1101111110   | DESCRIPTION                                       | COMMENTS                              | DEPTH            | UMITS         | WEIGHT   | UNITS  | EXPLOSIVE  | OBJ NAM              |
| ond                  | 136       |            | 9913600301 | ├             | <del>                                       </del> | <del>                                      </del> |                                       |                  |               | 0.5  | lbs    |  | Fragment             |
| ond                  | 136       |            | 9913600701 |               | ļ  |   |                                       |                  |               | 0.25   | be     |  | Fragment             |
| latural Brush/Forest | 147       | 99147001   | M913000701 | <u> </u>      |  | <del></del>                                       |                                       |                  |               | 0.5  | bs     |  | Fragment             |
| Ininvestigated Area  | 148       | 99148001   |            | <u> </u>      |  |   |                                       |                  |               |  |        | <del>                                     </del> |                      |
| Ininvestigated Area  | 148       |            |            | ļ             |  | <u></u>   |                                       |                  |               | 1  |        |  |                      |
| Ininvestigated Area  | 148       | 99148002   |            | <u> </u>      |  | <u> </u>  |                                       |                  |               | <del>                                     </del> |        |  | ·                    |
| ond                  |           | 99148003   |            |               | ļ <u>.</u>   |   |                                       |                  |               |  |        |  |                      |
| ond                  | 129       |            | 9912900101 |               |  |   |                                       |                  |               | 0.25   | lbs:   | <del>                                     </del> | Scree                |
| and                  |           | 99129002   |            |               |  |   |                                       |                  |               | <del></del>                                      |        | <del>                                     </del> | -                    |
| E/CA Grid 87         | 169       | 99169001   |            |               | <b></b>  |   |                                       |                  |               |  |        | <del>†</del>                                     |                      |
| E/CA Grid 87         | 106       |            | 9910600201 |               |  |   |                                       |                  |               | 1  | bs     | <del>                                     </del> | Fragment             |
| E/CA Grid 87         | 106       |            | 9910600301 |               |  |   |                                       |                  |               | 0.25   | ı      | <del> </del>                                     |                      |
|                      | 106       |            | 9910600401 |               |  |   |                                       | <u> </u>         |               | 0.5  |        |  | Fragment<br>Fragment |
| E/CA Grid 87         | 106       |            | 9910800501 |               |  |   |                                       |                  |               | 0.25   | -      |  | Fragment             |
| E/CA Grid 87         | 106       |            | 9910800701 |               |  |   |                                       |                  |               | 0.5  |        |  | Fragment<br>Externed |
| E/CA Grid 87         | 106       |            | 9910600601 |               |  |   |                                       |                  |               |  | lbs.   |  | Fragment             |
| E/CA Grid 87         | 108       |            | 9910600901 |               |  |   |                                       | _                |               | 0.5  |        |  | Fregment             |
| E/CA Grid 87         | 108       |            | 9910601101 |               | ·  |   |                                       | <del></del>      |               | 0.3  |        |  | Fragment             |
| E/CA Grid 87         | 106       |            | 9910601201 |               |  |   |                                       | <del></del>      |               | 0.1  |        |  | Fragment             |
| E/CA Grid 87         | 106       |            | 9910601301 |               |  |   |                                       | <del></del>      |               | 0.25   |        |  | Fragment             |
| E/CA Grid 87         | 106       | 99106014   | 9910601401 |               |  | -   |                                       | <del></del>      |               | 0.25   |        |  | Fragment             |
| E/CA Grid 87         | 106       | 99106016   | 9910601601 |               |  |   | <del></del>                           | <del></del>      |               |  |        |  | Fregment             |
| E/CA Grid 87         | 105       | 99105001   | 9910500101 |               |  |   |                                       | <del></del>      |               |  | lbs .  |  | Fregment             |
| E/CA Grid 87         | 105       | 99105002   | 9910500201 |               |  | · · · ·   | · · · · · · · · · · · · · · · · · · · | <del></del>      |               | 0.25   |        |  | regment              |
| E/CA Grid 87         | 105       |            | 9910500401 |               |  |   |                                       | <del></del>      |               | 0.25   |        |  | regment              |
| E/CA Grid 87         | 105       | 99105007   | 9910500701 |               |  | <u> </u>  | ···                                   | <del></del>      |               | 0.5  |        |  | Fregment             |
| E/CA Grid 87         | 105       | 99105008   | 9910500801 |               |  | <del></del>                                       | ·                                     | <del></del>      |               | 0.25   |        |  | regment              |
| E/CA Grid 87         | 105       | 99105009   | 9910500901 |               |  | <del></del>                                       | · · · · · · · · · · · · · · · · · · · | <del></del> -    |               | 0.5  |        |  | ragment              |
| E/CA Grid 87         | 105       | 99105011   | 9910501101 |               |  | <del></del>                                       |                                       | <del></del>      |               | 0.25   |        | <u> </u>   | ragment              |
| CA Grid 87           | 105       | 99105013   | 9910501301 |               |  | <del></del>                                       |                                       | <del>-    </del> |               | 0.5  |        | <u> </u>   | ragment              |
| /CA Grid 87          | 105       | 99105015   | 9910501501 |               |  | <del></del>                                       | <del></del>                           | <del>-   </del>  |               | 0.5  |        |  | ragment              |
| ACA Grid 87          | 105       | 99105016   | 9910501601 |               |  |   | <del></del>                           |                  |               | 0,5  |        | <u> </u>   | ragment              |
| /CA Grid 87          | 105       |            | 9910501901 |               |  |   | <del></del>                           |                  |               | 0.25   |        | i  | ragment              |
| /CA Grid 87          | 108       |            | 9910000101 |               |  |   |                                       |                  |               | 0.25   |        |  | ragment              |
| JCA Grid 87          | 108       | 99108003   |            |               | <del></del>  | <del> </del>                                      | <del> </del>                          | <del></del>      |               | 0.25   |        |  | ragment              |
| CA Grid 87           | 108       |            | 9910800401 | · — i         | <del></del>  |   | ··· <del>·</del> ····                 |                  |               | 0.5  |        |  | ragment              |
| /CA Grid 87          | 108       |            | 9910800701 | <del></del> - |  |   |                                       |                  |               | 0.5  |        |  | ragment              |
| /CA Grid 87          | 106       | 99108008   |            | <del></del>   |  | <del></del>                                       |                                       |                  |               | 0.25   | bs     |  | ragment              |
| CA Grid 87           | 108       | 99106010   |            | <del></del> + | <del></del>  |   |                                       |                  |               | 0.5  | bi     |  | ragment              |
| /CA Grid 87          | 108       | 99108011   |            | <del></del>   | —· —   | <del></del>                                       |                                       |                  |               | 3  | bs     |  | ragment              |
| /CA Grid 87          | 108       | 99108012   |            |               |  |   |                                       | T                |               | 0.25   | bs     |  | ragment              |
| CA Grid 87           | 108       | 99106013   |            |               |  |   |                                       |                  |               | 0.25   | bs     |  | regment              |
| CA Grid 87           | 108       | 99108015   |            | <del></del>   | <del></del>  | <del></del>                                       |                                       |                  |               | 0.25   | bs     |  | ragment              |
| CA Grid 87           | 108       |            |            |               |  |   |                                       |                  |               | 0.25   |        |  | ragment              |
| CA Grid 87           |           | 99108018   |            |               |  |   |                                       |                  |               | 0.25   |        |  | ragment              |
| CA Grid 87           | 108       | 99108017 1 |            |               |  |   |                                       |                  |               | 0.25   |        |  | regment              |
| CA Grid 87           | 108       | 99108018 1 |            |               |  |   |                                       |                  |               | 0.25   |        |  | ragment              |
|                      | 107       | 99107001   | VV10700101 |               |  |   |                                       | <del></del>      |               | 0.1  |        |  |                      |
| /CA Grid 87          | 107       | 99107002   |            | 1             |  |   |                                       | _                | $\overline{}$ | - V. I   |        | <u></u>  | ragment              |





|                      | 00E | ANOMAL VID | OR IECT ID             | FASTING  | NORTHING  | DESCRIPTION                                      | COMMENTS       | DEPTH          | UNITS  | WEIGHT         | WEIGHT<br>UNITS | EXPLOSIVE        | OBJ NAME       |
|----------------------|-----|------------|------------------------|--|---|--|----------------|----------------|--|----------------|-----------------|------------------|----------------|
| ECTORS NAME          |     |            |                        |  | 1   | <u>-</u>   | <del></del>    |                |  | 0.1            |                 |                  | Fragment       |
| E/CA Grid 87         | 107 |            | 9910700301             | <del> </del>                                     |   |  |                |                |  | 0.1            |                 |                  | Fragment       |
| E/CA Grid 87         | 107 | 99107006   | 9910700601             | <b>⊢</b> —                                       | <del> </del>  |  |                |                |  | 0.1            |                 | <u> </u>         | Fragment       |
| E/CA Grid 87         | 107 |            | 9910700701             |  | ļ <u> </u>  |  |                |                |  | 0.25           |                 |                  | Fragment       |
| E/CA Grid 87         | 107 |            | 9910700901             |  | <del>                                      </del>   |  |                |                |  | 0.1            |                 |                  | Fragment       |
| E/CA Grid 87         | 107 |            | 9910701001             | <b></b>  | <del>                                      </del>   | <del> </del>                                     |                |                |  | 0.25           |                 |                  | Fragment       |
| E/CA Grid 67         | 107 |            | 9010701201             |  | <del></del>   |  |                |                |  | 0.1            | lbs             | <u> </u>         | Fragment       |
| E/CA Grid 87         | 107 |            | 9910701401             |  | <del> </del>  |  |                |                |  | 0.1            | lbs             | 1                | Fragment       |
| E/CA Grid 87         | 107 |            | 9910701501             |  | <del> </del>  |  |                | _              |  | 5              | libs            |                  | Scrap          |
| atural Brush/Forest  | 255 |            |                        |  | ļ.———   |  |                |                | 1  | 2              | ībs             |                  | Scrap          |
| atural Brush/Forest  | 269 |            |                        |  | ļ.———   |  |                |                |  | 1              | lbs             |                  | Fragment       |
| inefarm              | 54  |            |                        |  |   | <del> </del>                                     |                |                | <u> </u>   | 1              | lbs             |                  | Fragment       |
| inefarm              | 54  |            |                        |  | ļ.——  | <del>                                     </del> | <del></del>    |                |  | 0.25           | ibs             |                  | Fragment       |
| inefarm              | 54  |            |                        | <u> </u>   | <del> </del>  | <del>                                     </del> | <del></del>    |                |  | 1              |                 | 1                |                |
| inefarm              | 54  |            |                        | <u> </u>   | <b>-</b>  | <del> </del>                                     | <del></del>    |                |  | 0.6            | ibs             |                  | Fragment       |
| inefarm              | 54  |            |                        |  | <del> </del>  | <del> </del>                                     | <del>-  </del> |                | 1  | 0.25           | lbs             |                  | Fragment       |
| inefarm              | 54  |            |                        | <u> </u>   | <del> </del>  | <del> </del>                                     | <del></del>    |                | 1  |                |                 |                  |                |
| inefarm              | 54  |            |                        | <u> </u>   | <del></del>   | <del> </del>                                     |                |                | 1  | 0.2            | ibs             |                  | Fragment       |
| inefarm              | 55  |            |                        |  |   |  |                |                | <del>                                     </del> | 0.5            | ibs             | _                | Fragment       |
| inefarm              | 55  | 99055004   |                        |  |   |  |                |                | <del>                                     </del> | 0.2            | ibs.            |                  | Fragment       |
| inefarm              | 54  | 99055006   |                        |  | <u> </u>  | <del></del>                                      |                |                | <del>                                     </del> | 0,2            | 5 los           |                  | Fragment       |
| inefarm              | 54  |            |                        |  | 1   | <del> </del>                                     |                |                | <del> </del>                                     | 0.2            | 5 lbs           |                  | Fragment       |
| inefarm              | 5   | 5 9905500  | 990550080              | 1  |   |  |                | <del></del>    | !  |                | 5 fbs           |                  | Fragment       |
| inefarm              | 5!  |            | 990550110              | 1  |   |  |                |                | +  |                | 5 lbs           |                  | Fragment       |
| Pinefarm             | 5/  | 5 99055013 | 990550130              | 1  | <u> </u>  |  |                | <del>-  </del> | <del>                                     </del> |                | 5 lbs           |                  | Fragment       |
| Pinefarm             | 5   |            | 4 990550140            | īi   | 1   |  |                | <del></del> -  | <del></del>                                      | <del>-  </del> | <del>' </del>   |                  |                |
| Pinefarm             | 5   |            | 5                      |  |   |  |                | <del></del> -  | +  | 0.2            | 5 lbs           |                  | Fragment       |
| Pinetarm             | 5   |            | 2 990560020            | 1  |   |  |                |                | + -  | <del>-{</del>  | 1               |                  |                |
| inefarm              | 5   | 8 9905800  | 3                      |  |   |  |                |                | +  | 1 02           | 5 lbs           |                  | Fragment       |
| Pinefarm             | 5   |            | 4 990560040            | 1  |   |  |                |                | +  |                | 5 lbs           |                  | Fragment       |
| Pinefarm             | 1 5 |            |                        |  |   |  |                |                | <del></del> -                                    |                | 5 lbs           | <del></del>      | Fragment       |
| Pinefarm             | 1 5 | 6 9905600  | 7 990560070            | 11.  |   |  |                |                | ┿  |                | 5 lbs           |                  | Fragment       |
| Pinefarm             |     |            | 8 990580080            |  |   |  |                |                | +  |                | 5 lbs           |                  | Fragment       |
| Pinetam              |     | 6 9905600  | 9 990560090            | )1   |   |  |                |                | <del></del>                                      |                | 5 lbs           | <del></del>      | Fragment       |
| Pinefarm             |     | 8 9905601  |                        |  |   |  |                |                | <del>- </del> -                                  | <del></del>    | 3 IV4           | +-               | 1              |
| rineterm<br>Pineterm |     | 8 9905601  |                        |  |   |  |                |                |  | +              | <del>- </del>   |                  | <del>-  </del> |
|                      |     | 8 9905601  |                        | <del>                                     </del> | _   |  |                |                | <del> </del>                                     | <del> </del>   | 25 lbs          | <del>-  </del> - | Fragment       |
| Pinelarm             |     | 6 9905601  | 6 990560160            | oil  | <b>T</b>  |  |                |                |  |                |                 | <del></del>      | Fragment       |
| Pinefarm             |     | 6 9905601  |                        |  | <del>_</del>  |  |                |                | ┿  | 0.2            | 25 lbs          |                  | 1 1031110111   |
| Pinefarm             |     | 6 9905602  |                        | +  | <del></del>   |  |                |                | <del> </del>                                     | <del></del>    | <del>.  </del>  |                  | Fragment       |
| Pinefarm             |     |            | 1 99056021             | 01   | <del>                                     </del>    | ·  |                |                |  |                | 25 lbs          | <del></del>      | Fragment       |
| Pinelarm             |     | 9905602    | 3 99056023             | 11   | <del></del>   |  |                |                |  |                | 25 lbs          |                  |                |
| inefam               |     | 9905602    | 99049001               | 01   | +   |  |                |                |  |                | 25 lbs          | _                | Fragment       |
| Pinefarm             |     |            | 2 99049002             | 04   | <del>-</del>  |  |                |                |  | 0.3            | 25 lbs          |                  | Fragment       |
| Pinefarm             |     | 19 9904900 | 4 00040004             | 041  |   |  |                |                |  |                | 1 lbs           |                  | Fragment       |
| Pinefarm             |     |            | 99049004               |  | <del></del>   | <del></del>                                      |                |                |  | 0.             | 25 lbs          |                  | Fragmen        |
| Pinefarm             |     | 49 9904900 |                        | <del>'' </del>                                   |   | <del> </del>                                     |                |                |  |                |                 | _                |                |
| Pinefarm             |     | 19 9904900 |                        | <del></del>                                      | <del>-                                       </del> | <del> </del>                                     |                |                |  | 0.             | 25 ibs          |                  | Fragmen        |
| Pinefarm             |     | 49 9904900 | 99049007<br>1 99050001 |  |   |  |                |                |  |                | ).5 lbs         |                  | Fragmen        |

1/22/97

| SECTORS NAME        | GRID ID | ANOMALY ID | OBJECT ID  | EASTING         | <b>NORTHING</b>                        | DESCRIPTION        | COMMENTS                               |                    | DEPTH         |               | WEIGHT        |                      |              |
|---------------------|---------|------------|------------|-----------------|--|--------------------|--|--------------------|---------------|---------------|---------------|----------------------|--------------|
| Pinefarm            | 50      |            |            |                 | <del></del>                            |                    | COMMEN 13                              | DEPTH              | UNITS         | WEIGHT        | UNITS         | EXPLOSIVE            | OBJ NAME     |
| Pinefarm            | 50      |            |            | <del></del>     | <del></del> -                          | <del></del>        |  |                    |               |               | Ibs           |                      |              |
| Pinetern            | 50      |            |            | <del> </del>    | <del></del> -                          | <del> </del>       |  |                    |               | 0.25          |               | <del></del>          | Fragment     |
| Pinetarm            | 53      |            | 9905300201 | <del></del>     |  |                    |  |                    |               | 0.25          |               |                      | Fragment     |
| Pinetarm            | 53      | 99053004   | 9905300401 |                 | <del></del>                            |                    |  |                    |               | 0.25          |               |                      | Fragment     |
| Pinefarm            | 53      | 99053004   | 9905300601 |                 |  |                    |  |                    |               |               |               | <b></b> _            | Fragment     |
| Pinetarm            | 53      | 99053003   | 9905300701 |                 | <u> </u>                               |                    |  |                    |               |               | lbs .         |                      | Fragment     |
| Pinefarm            | 53      | 99063017   | 9905301001 |                 |  |                    |  |                    | <del></del>   |               | lbs.          | <u> </u>             | Fragment     |
| Pinetarry           | 53      | 00053010   | 9905301001 |                 |  |                    |  | <del></del> -      |               |               | lbe .         |                      | Fragment     |
| Pinefarm            | 53      | 99033011   | 9905301101 |                 |  |                    |  | <del>  </del>      |               | 0.5           |               |                      | Fragment     |
| netam               | 53      | 99053014   | 9905301301 |                 |  |                    | ···                                    |                    |               | 0.5           |               |                      | Fragment     |
| inefarm             | 51      |            | *******    |                 |  |                    |  |                    |               | 0.25          | D6            |                      | Fragment     |
| inefarm             | 51      |            | 9905100101 |                 |  |                    |  |                    |               | <del> </del>  |               |                      |              |
| inofam              |         |            | 9905100201 |                 |  |                    | <del></del>                            | <del></del>        |               | 0.5           |               |                      | Fragment     |
| Inefarm             | 51      | 99051003   | <u> </u>   |                 |  |                    | <del></del>                            | <del>-   -  </del> |               | 0.25          | lbs.          |                      | Fragment     |
| inefam              | 51      |            | 9905100501 |                 |  |                    |  | <del></del>        |               | Ĺ <u>.</u>    |               |                      |              |
| inefarm             | 51      | 99051006   | <u> </u>   |                 |  |                    |  | <del></del>        |               | 0.25          | lbe           |                      | Fragment     |
| 'netam              | 51      |            | 9905100701 |                 |  |                    |  |                    |               |               |               |                      |              |
| inelarm             | 52      |            | 9905200101 |                 |  |                    | <del></del>                            | <del></del>        |               | 0.25          |               |                      | Fragment     |
|                     | 52      |            | 9905200301 |                 |  |                    | <del></del>                            | <del></del>        |               | 0.5           | be            |                      | Fragment     |
| inefam              | 52      |            | 9905200401 |                 |  |                    | <del></del>                            |                    |               | 0.25          |               |                      | Fragment     |
| inefarm             | 52      | 99052005   | 9905200501 |                 |  |                    |  |                    |               | 0.25          | bs            |                      | Fragment     |
| atural Brush/Forest | 22      | 99022001   | 9902200101 |                 |  |                    |  |                    |               | 0.5           | bs            |                      | Fragment     |
| atural Brush/Forest | 22      | B9022003   | 9902200301 |                 |  |                    |  |                    |               | 0.5           |               |                      | Fragment     |
| atural Brush/Forest | 22      | 99022004   | 9902200401 |                 |  |                    |  |                    |               | 0.25          |               |                      |              |
| Stural Brush/Forest | 22      |            | 9902200501 |                 | <del></del> i                          |                    |  |                    |               | 0.51          |               |                      | ragment      |
| atural Brush/Forest | 22      |            | 8902200601 |                 | <del></del>                            |                    |  |                    |               |               |               |                      | гадителя     |
| etural Brush/Forest | 22      | 99022007   | 9902200701 |                 |  | <del></del>        |  |                    |               | 0.25          |               | <del></del>          | ragment      |
| stural Brush/Forest | 22      |            | 9902200901 | <del></del>     |  |                    |  |                    |               | 0.25          | ···           |                      | Scrap        |
| rtural Brush/Forest | 22      | 99022010   | 9902201001 | <del></del>     |  | <del></del>        |  |                    |               | 0.25          |               |                      | Scrap        |
| stural Brush/Forest | 22      | 99022011   | 9902201101 |                 |  |                    |  |                    |               | 0.25          |               |                      | ЭСТВР        |
| and                 | 123     |            | 9912300101 |                 |  |                    |  |                    |               | 0.25          |               |                      | (Agment      |
| and                 | 123     |            | 9912300301 |                 |  |                    |  |                    | <del></del>   | 0.25          |               |                      | regment      |
| and T               | 123     | 00123003   | 9912300401 |                 |  |                    |  |                    |               |               |               |                      | regment      |
| nd                  | 123     |            |            |                 |  |                    |  |                    |               | 0.25          | 78            |                      | ragment      |
| and -               | 123     |            | 9912300501 |                 |  |                    |  | <del> </del>       |               |               | <del></del>   |                      | fagnetic Roc |
| nd                  | 123     |            | 9912300701 | <u> </u>        |  |                    |  | <del></del> -      |               | <del></del> - |               |                      | cell Layer   |
| nd                  | 123     | 99123000   | 9912300801 |                 |  |                    |  | ╼┼╼╼┼              | <del></del> - |               |               |                      | Ol Layer     |
| refarm              |         |            | 9912301001 |                 |  |                    | ···-                                   | <del></del>        |               |               |               | if                   | ragment      |
| efam                | 82      | 99062001   |            |                 | 1                                      |                    | <del></del>                            | ╼╂╼╼╌╂             |               | 0.25 k        | <b>X8</b>     |                      | regment      |
| efarm               | 82      | 99062002   |            |                 |  |                    | <del></del>                            |                    |               |               | I             |                      |              |
| efam                | 62      | 99082005   |            |                 |  |                    |  | <del> </del>  -    |               |               |               |                      |              |
| Giarra              | 62      | 99082006   | 9908200801 |                 |  | ·                  | <del></del>                            |                    |               | 0.25 lb       |               | IF                   | regment      |
| efarm               | 82      | 99062007   |            |                 |  |                    | <del></del>                            |                    |               | 0.25 lb       | •             |                      | ragment      |
|                     | 82      | 99002009   |            |                 |  | <del></del>        | <del></del>                            |                    |               |               |               |                      |              |
| elam                | 82      | 99082012 1 | 906201201  |                 |  |                    | —————————————————————————————————————— |                    |               |               |               | <del></del>          |              |
| efam                | 82      | 99082013   |            |                 | <del></del>                            | <del></del>        |  |                    |               | 0.5 lb        | -             | ———   <sub>=</sub> , | agment       |
| GÉGLET)             | 82      | 99062014   |            |                 | <del></del>                            |                    |  |                    | _             |               |               | <del></del>          |              |
| ekariji             | 62      | 99082017   | 908201701  | <del></del>     | —————————————————————————————————————— | and Matel 7        |  |                    | $\neg \neg$   |               | $\rightarrow$ | <del>  -</del>       |              |
| diaria:             | 82      | 99082018   |            | —— <del>-</del> |  | ng and Metal Trash |  |                    |               |               | <del></del>   |                      |              |
|                     |         |            |            |                 |  | rum Ud             |  |                    |               |               |               |                      | сгар         |



|             |                     |            |             |   |  |   |                  | <del></del>      | DEPTH  |   | WEIGHT              |  |             |
|-------------|---------------------|------------|-------------|---|--|---|------------------|------------------|--|---|---------------------|--|-------------|
| ECTORS NAME | GRID ID             | ANOMALY ID | OBJECT ID   | EASTING   | NORTHING   | DESCRIPTION                                   | COMMENTS         | DEPTH            |  | WEIGHT  |                     | EXPLOSIVE  |             |
|             |                     |            |             | <del></del>   | <del>                                     </del> | Metal strap                                   |                  |                  |  | 2.5   |                     | ļ  | Fragment    |
| inefarm     | 62                  |            | 9908202101  | <del> </del>  | <del> </del>                                     |   |                  |                  |  | 0.5   |                     | <u> </u>   | Fragment    |
| inefarm     | 82                  |            |             |   | <del> </del>                                     |   |                  |                  |  | 0.25  |                     | <u> </u>   | Fragment    |
| inefarm     | 83                  |            | 9908300301  |   | <del> </del>                                     |   |                  |                  |  | 0.5   | -                   | <u> </u>   | Fragment    |
| inefarm     | 83                  |            | 9908300501  | <del> </del>  |  |   |                  |                  |  | 0.25  |                     |  | Fragment    |
| inefarm     | 83                  |            | 9908300502  | 17840561  | 1112338  | 105 mm BE/Inert                               |                  | Ċ                | lin.   | 25  | ibs                 | <u> </u>   | Ordnance    |
| inelarm     | 83                  |            |             | 1704033   | 1112000_   |   | _ <del></del>    | - I              |  | l   |                     | 1  | <del></del> |
| inefarm     | 83                  |            |             | <del>                                     </del>    | <del> </del>                                     |   |                  |                  |  | 0.25  |                     |  | Fragment    |
| inefarm     | 83                  |            |             | <del> </del> -                                      | <del> </del>                                     |   |                  |                  |  | 0.25  |                     |  | Fragment    |
| inefarm     | 83                  |            |             | <del> </del>  | <del>  -</del>                                   | <del></del> -                                 |                  |                  |  | 0.25  |                     |  | Fragment    |
| inefarm     | 83                  |            |             |   | <del> </del>                                     | <del> </del>                                  | ·                |                  |  | 0.25  |                     |  | Fragment    |
| inefarm     | 83                  |            | 9908301101  |   | <del></del>                                      | <del></del>                                   |                  |                  |  | 0.25  | lbs                 |  | Fragment    |
| inefarm     | 83                  |            |             |   | <del>1</del>                                     | <del></del>                                   | -                |                  |  | 0.25  | lbs                 | <u> </u>   | Fragment    |
| Pinefarm    | 83                  |            | 9908301401  |   | <del> </del>                                     | <del> </del>                                  | <del>-  </del>   |                  |  |   |                     |  | <u> </u>    |
| inefarm     | 83                  |            |             | <del>                                     </del>    | <del>                                     </del> | <del>                                  </del> | <del>-   </del>  | <u> </u>         |  |   |                     |  | <u> </u>    |
| inefarm     | 83                  |            |             |   | <del> </del>                                     | <del></del>                                   | -                | I                |  | 0.25  | libs                |  | Fragment    |
| inefarm     | 84                  | 99084001   | 990840010   | <del>  </del>                                       | <del> </del>                                     |   |                  |                  |  |   | lbs                 |  | Fragment    |
| inefarm     | 84                  |            | 990840030   |   | <u> </u>   | <u> </u>                                      | <del></del>      |                  | <u> </u>   | 0.25  | lbs                 |  | Fragment    |
| inefarm     | 84                  |            | 990840040   | <del>!                                       </del> | <del> </del>                                     | <del></del>                                   | · <del>-  </del> |                  | 1 '  | 0.8   | lbs                 |  | Fragment    |
| inefarm     | 84                  |            | 990840050   | <b>'</b>  | <del> </del>                                     |   | <del></del>      |                  |  |   |                     |  |             |
| inetarm     | 8-                  | 99084007   | 71          |   |  | <del> </del>                                  | <del>  </del>    |                  |  | 0.75  | lbs                 |  | Fragment    |
| inefarm     | - 8                 |            | 990840080   | <u> </u>  | <del> </del>                                     | <del> </del>                                  | <del></del>      |                  |  | 1   |                     |  |             |
| inefarm     | 8                   |            | 9           |   | <del></del>                                      | <u> </u>                                      | <del> </del>     | <del>  </del>    |  | T :   | lbs                 |  | Scrap       |
| inefarm     | 8-                  | 99084010   | 990840100   | 11  |  | <del> </del>                                  | <del></del>      |                  | <del> </del>                                     | 0.  | 5 libs              |  | Fragment    |
| Pinefarm    | 8                   |            | 3 990840130 |   | <del> </del>                                     | <del></del>                                   | <del></del>      |                  | <del> </del>                                     | 0.2   | 5 lbs               |  | Fragment    |
| inefarm     | 8                   | 4 99084019 | 5 990840150 | 1   | <del> </del>                                     | <del> </del>                                  | <del></del>      |                  | <del>                                     </del> | 0.2   | 5 lbs               |  | Fragment    |
| Pinefarm    | 8                   | 4 99084010 | 8 990840180 | 1   | <del> </del>                                     | <del></del>                                   |                  |                  | +  | 0.2   | 5 lbs               |  | Fragment    |
| Pinefarm    | 8                   | 4 9908401  | 7 990840170 | <u> 11 — </u>                                       | <u> </u>   | <del></del>                                   | <del></del>      | <del> </del>     | <del>                                     </del> | 0.2   | 5 1bs               |  | Fragment    |
| Pinefarm    | В                   |            | 0 990840200 |   | <del> </del>                                     |   |                  |                  | <del> </del>                                     | 0.2   | 5 libs              |  | Fragment    |
| Pinefarm    | 6                   | 4 9908402  |             |   |  |   |                  |                  | +  | <del>                                     </del>  | 0 lbs               |  | Scrap       |
| Pond        | 16                  |            | 1 991680010 |   |  | 55-gallon drum                                | <del></del>      | ····             |  | 1 2   | 0 lbs               |  | Scrap       |
| Pond        | 16                  | 8 9916800  |             |   |  | 55-gallon drum                                |                  | <del></del>      |  |   | 5 lbs               |  | Scrap       |
| Pond        | 16                  | 8 9916800  |             |   |  | Barbed wire                                   |                  |                  | +  |   | 5 lbs               |  | Scrap       |
| Pond        | 16                  |            |             |   |  | Barbed wire                                   |                  | <del>  </del>    | +  |   | 5 lbs               |  | Scrap       |
| Pond        | 16                  | 6 9916600  | 1 991660010 |   |  |   |                  | <del>-   -</del> | <del></del>                                      |   | 5 lbs               | <u> </u>   | Scrap       |
| Pond        | 16                  | 6 9916600  | 2 991660020 | 11  |  | Barbed wire                                   |                  |                  | +  |   | 5 lbs               |  | Scrap       |
| Pond        | 18                  |            |             | )1]   | _i   |   |                  | <del></del>      | <del></del>                                      | <del> </del>                                      | <del>~   ~ ~ </del> |  | 1           |
| Pond        | 17                  | 0 9917000  | 11          |   | Ī  |   |                  |                  | +  | 0.2   | 5 lbs               |  | Scrap       |
| Pond        | 17                  | 0 9917000  | 991700020   | )1  |  | Barbed wire                                   |                  |                  | +-   |   | 5 lbs               |  | Scrap       |
| Pond        | 17                  |            |             |   |  |   |                  | <del>  </del>    | <del> </del>                                     | 1 · · · · ·                                       | .0103               | <del>-  </del>                                   |             |
| Pond        | 17                  |            |             |   |  |   |                  |                  | ——   | <del>  -                                   </del> | .3 lbs              | <del>-                                    </del> | Scrap       |
| Pond        | 17                  |            | 1 991710010 | 11  |  |   |                  |                  |  |   |                     | <del></del>                                      | Scrap       |
| Pond        | 17                  | 9917100    | 2 991710020 | 71  |  |   |                  |                  | →  |   | .3 lbs              | <del></del> -                                    | Scrap       |
| Pond        | <del>-   - ''</del> |            | 99171004    |   |  |   |                  |                  |  | <del>°</del>                                      | 3 lbs               | <del></del>                                      | Soil Layer  |
|             |                     |            |             |   | 1  |   |                  |                  | _↓   |   | 0 11                |  |             |
| Pond        | 17                  | 71 0017100 | 99171008    |   | <del>-  </del>                                   | <u> </u>                                      |                  |                  |  |   | 3 lbs               |  | Scrap       |
| Pond        | 17                  |            | 07 99171007 | 01  | <del>- </del>                                    |   |                  |                  |  |   | .3 lbs              |  | Scrap       |
| Pond        | 11                  | 74 001710  | 9 99171009  | 01  | <del> </del>                                     |   |                  |                  | <del></del> _                                    |   | .3 lbs              |  | Scrap       |
| Pond        |                     | 71 9917101 | 10 99171010 | <del>   </del>                                      | <del></del>                                      | <del> </del>                                  |                  |                  | 1  | 0   | .3 lbs _            |  | Scrap       |

| SECTORS NAME           | GRID ID A | NOMALY ID | OBJECT ID  | EASTING        | NORTHING    | DESCRIPTION   | COMMENTS     |  | DEPTH |        | WEIGHT   | -  |              |
|------------------------|-----------|-----------|------------|----------------|-------------|---------------|--------------|--|-------|--------|----------|--|--------------|
| ond                    | 130       | 99130002  |            | 1              | 1           | DESCRIPTION   | COMMENTS     | DEPTH  | UNITS | WEIGHT | UNITS    | EXPLOSIVE  | OBJ NAM      |
| and                    | 131       |           | 9913100401 | <del></del>    | <del></del> |               |              |  |       | T      |          |  |              |
| atural Brush/Forest    | 298       |           | 9929800101 |                | <del></del> |               |              |  |       | 0.25   | lbs      |  | Scree        |
| atural Brush/Forest    | 298       |           | 9929800301 |                | <b></b>     |               |              |  |       | 3      | lbs      | <del>                                     </del> | Scrap        |
| atural Brush/Forest    | 300       |           | 9930000101 |                |             |               |              |  |       |        |          | <del></del>                                      | Soil Layer   |
| atural Brust/Forest    | 300       | 99300002  | 333000101  | <del> </del>   | ļ           |               |              |  |       | 3      | lbe      |  | Screo        |
| atural Brush/Forest    | 262       |           | 9926200101 | <del></del>    |             |               |              |  |       |        |          |  |              |
| stural Brush/Forest    | 262       | 99262002  |            | <del>-</del> - |             |               |              |  |       | 5      | lbs      |  | Scree        |
| etural Brusiv/Forest   | 263       | 99263002  |            |                | <u> </u>    |               | ···          |  |       | 0.5    | bı       |  | Scrap        |
| atural Brush/Forest    | 263       | 99283003  | 9925300301 | _              |             | <del></del>   |              |  |       | 1      |          |  | <b>Scrap</b> |
| atural Brush/Forest    | 261       | 99261001  | 9926100101 |                |             |               |              | ┩  |       | 0.5    |          |  | Screp        |
| atural BruslyForest    | 260       | 99280002  | 9928000201 |                |             | Soil layer    |              | <u> </u>   |       | 1      | lbş.     |  | Scrap        |
| indill and Compostin   | 180       | 99180002  | 9918000201 |                |             | CON 16761     |              |  |       |        |          |  | Soll Layer   |
| indfill and Compostin  | 180       |           | 9918000601 |                |             | <del></del>   | <del></del>  |  |       |        | libs.    |  | Fragment     |
| indfill and Compostin  | 180       | 99180009  | 9918000901 | · · · · · ·    |             |               | <del></del>  |  |       |        | bs       |  | Fragment     |
| andfill and Compositin | 160       |           | 9918001301 |                |             |               | <del></del>  |  |       |        | lbs      |  | Fragment     |
| mdfill and Compostin   | 180       |           | 9918001601 |                |             | ·             |              | <del>                                     </del> |       | 0.5    |          |  | Fragment     |
| indfill and Compostin  | 180       | 99160020  | 9918002001 |                |             |               | <del></del>  |  |       | 0.5    |          |  | Fragment     |
| indfill and Compostin  | 180       | 99180026  | 9918002601 |                |             | <u> </u>      |              | _  |       |        | lbs.     |  | Fragment     |
| ntural BrusivForest    | 34        | 99034006  | 9903400601 |                | · -         | <del></del>   | <del></del>  |  |       |        | <u> </u> |  | Fragment     |
| atural Brush/Forest    | 34        | 99034009  | 9903400901 |                |             |               |              | _  |       |        | 8        |  | Fragment     |
| ntural Brush/Forest    | 34        | 99034013  | 9903401301 |                |             |               |              | +  |       |        | bs       |  | Fragment     |
| atural Brush/Forest    | 34        |           | 9903401601 |                |             |               | <u> </u>     | +  |       |        | bs       |  | Fragment     |
| ndfill and Compostin   | 179       | 99179005  | 9917900501 |                |             |               |              | <del></del>                                      |       |        | lbs      | <u></u>  | Fragment     |
| ndfill and Compostin   | 179       | 99179008  | 9917900801 |                |             | <del></del> . | <del></del>  | +  |       | 0.33   |          |  | Fragment     |
| ndfill and Compostin   | 179       |           | 9917901201 |                |             |               | <del></del>  |  |       | 0.33   |          |  | Fragment     |
| ndilil and Compostin   | 179       | 99179015  | 9917901501 |                |             |               | <del>-</del> | +  |       | 0.33   |          |  | Fregment     |
| nural Brush/Forest     | 3         | 99003004  | 9900300401 |                |             |               | <del></del>  | +  |       | 0.33   |          |  | Fragment     |
| numi Brush/Forest      | 3         | 99003007  | 9900300701 |                |             | · · _ ·       | <del></del>  | <del></del>                                      |       | 0.75   |          | <u>_</u> !                                       | Fregment     |
| nefarm                 | 57        | 99057007  | 9905700701 |                |             |               |              | <del></del>                                      |       | 0.5    |          |  | Fragment     |
| nefarm                 | 57        | 99057007  | 9905700702 |                |             |               | -            | +  |       | 0.15   |          |  | Fragment     |
| neferm                 | 57        | 99057010  | 9905701001 |                |             |               | <del></del>  | ╂──┤   |       |        | bs       | _  | Scrap        |
| neterm                 | 58        |           | 9905800401 |                |             |               |              | <del></del>                                      |       | 0.1    |          |  | Fragment     |
| nefarm                 | 58        | 99058007  | 9905800701 |                |             |               |              | +-+  |       | 0.5    |          |  | Fragment     |
| veferm                 | 59        | 99059001  | 9905900101 |                |             |               |              | <del>  -</del>                                   |       | 0.5    |          |  | ragment      |
| réfarm                 | 59        |           | 9905900501 |                |             |               |              | ╅  |       | 0.5    |          |  | Fragment     |
| nefarm .               | 59        |           | 9905900801 |                |             | <del></del>   |              | +  |       |        |          |  | Fragment     |
| eferm                  | 56        |           | 9906601101 |                |             |               |              | <del>  </del>                                    |       | 0.5    |          |  | Fragment     |
| tural Brush/Forest     | 65        |           | 9906500301 |                |             |               | -            | ╅  |       | 0.33   |          |  | ragment      |
| ural Brush/Forest      | 65        |           | 9906500302 |                |             |               |              | <del>                                     </del> |       | 0.15   |          |  | ragment      |
| turni Brush/Forest     | 85        |           | 9908500303 |                |             |               |              | ╅  |       | 0.15   |          |  | ragment      |
| ural Brush/Forest      | 65        |           | 9906500701 |                |             |               |              | <del>  -  </del>                                 |       | 0.15   |          |  | regment      |
| ural Brush/Forest      | 85        |           | 9906500702 |                |             |               |              | ╅━━╅   |       |        |          |  | ragment      |
| tural Brush/Forest     | 65        |           | 9905500703 |                |             | _             |              | <del>  </del>                                    |       | 0.15 J |          |  | ragment      |
| tural Brush/Forest     | 85        |           | 9906500704 |                |             |               | ···          | ╉╾╼╾┼  |       |        |          |  | ragment      |
| urai Brusiv/Forest     | 68        |           | 9908800101 |                |             |               |              | <del>                                     </del> |       | 0.15   |          |  | regment      |
| ural Brush/Forest      | 68        |           | 9905800102 |                |             |               | <del></del>  | <del>                                     </del> |       | 0.25 I |          |  | ragment      |
| ural Brush/Forest      | 58        | 99058001  | 9906800103 |                |             |               |              | +  |       | 0.25   | _        | F  | ragment      |





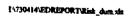
| FOTOD NAME           | CONT IN        | ANOMALY ID             | OBJECT ID                  | EASTING     | NORTHING   | DESCRIPTION  | COMMENTS D                                       | EPTH       | DEPTH<br>UNITS                                    | WEIGHT UN | IGHT<br>ITS EXPLOSIVE | OBJ NAME      |
|----------------------|----------------|------------------------|----------------------------|-------------|--|--|--|------------|---|-----------|-----------------------|---------------|
| ECTORS NAME          |                |                        | T 9906800104               | <del></del> | T  |  | <u> </u>   |            |   | 0.25 fbs  |                       | Fragment      |
| latural Brush/Forest | 68             |                        |                            | <del></del> |  | 30 cal clips                                       |  |            |   | 0.5 lbs   |                       | Scrap         |
| atural Brush/Forest  | 58             |                        |                            |             | <del> </del> -                                   | 30 car capo  |  |            |   | 0.25 lbs  |                       | Fragment      |
| stural BrustyForest  | 68             |                        |                            |             | <del> </del>                                     |  |  |            |   | 0.25 lbs  |                       | Fragment      |
| atural Brush/Forest  | 68             |                        |                            |             | <del> </del>                                     |  |  |            |   | 0.25 bs   |                       | Fragment      |
| atural Brush/Forest  | 68             |                        |                            |             | <del>                                     </del> |  |  |            |   | 0.25 lbs  |                       | Fragment      |
| atural BrustyForest  | 68             |                        |                            |             | <del></del>                                      | Magnetic Rock                                      |  |            |   |           |                       | Magnetic Rock |
| atural Brush/Forest  | 68             |                        |                            |             | <del> </del>                                     | Magneto Nook                                       | T  |            |   | 0.15 fbs  |                       | Scrap         |
| atural Brush/Forest  | 67             |                        |                            |             | <del></del>                                      | · · · · · · · · · · · · · · · · · · ·              | <del></del>                                      |            |   | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  | 67             |                        |                            |             | <del> </del>                                     |  | <del> </del>                                     |            |   | 0.15 lbs  |                       | Fragment      |
| atural BrusivForest  | 87             |                        |                            |             | <del> </del>                                     | - · · · · · · · · · · · · · · · · · · ·            | <del>                                     </del> |            | <b>-</b>  | 0.15 fbs  |                       | Fragment      |
| atural Brush/Forest  | 67             |                        |                            |             | <del>\</del>                                     | <u> </u>   | <del>                                     </del> |            |   | 0.15 lbs  |                       | Fragment      |
| etural Brush/Forest  | 67             |                        |                            |             | 1  |  | <del>                                     </del> |            |   | 0.15 lbs  |                       | Fragment      |
| atural BrustvForest  | 67             |                        |                            |             | <del> </del>                                     | <del>                                       </del> | <del> </del>                                     |            |   | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  | 67             |                        |                            |             |  |  | +  |            | <b>T</b>  | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  | 67             |                        |                            |             | <u> </u>   |  | <del>- </del>                                    |            | 1   | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  | 6.             |                        |                            |             | <u> </u>   | <del> </del>                                       | <del>-{·                                </del>   |            | t   | 0.15 lbs  |                       | Fragment      |
| atural Brust/Forest  | 67             |                        |                            |             | <del>                                     </del> |  | <del>-{ </del>                                   |            | <del>                                     </del>  | 0.15 lbs  |                       | Fragment      |
| atural Brust/Forest  | 6              |                        |                            |             | <u> </u>   | <u> </u>   | <del> </del>                                     |            | <del>                                     </del>  | 0.15 fbs  |                       | Fragment      |
| atural Brush/Forest  | 6              |                        |                            |             |  | <u> </u>   | <del> </del>                                     |            | <del>1</del>                                      | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  | 6              |                        |                            |             |  |  | <del> </del>                                     |            | <del> </del>                                      | 0.15 lbs  |                       | Fragment      |
| atural BrustyForest  | 6              | 7 99067000             | 990670061                  | 3           |  |  | <del></del>                                      |            | <del>                                      </del> | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  | 6              | 7 99067000             | 8 990670061                | <u>4\</u>   | <u> </u>   |  | <del></del>                                      |            | +   | 0,15 lbs  |                       | Fragment      |
| latural Brush/Forest | 6              | 7 9906700              | 8 990670061                | 5           |  |  | <del></del>                                      |            | +   | 0.15 lbs  |                       | Fragment      |
| atural BrustvForest  | 6              |                        |                            |             |  |  | <del> </del>                                     |            |   | 0.15 lbs  |                       | Fragment      |
| latural Brush/Forest | 6              | 7 9905700              | 6 990670061                |             | <u> </u>   |  | <del></del>                                      |            | +   | 0.15 lbs  |                       | Fragment      |
| latural Brush/Forest | 6              | 7 9906700              | 8 990870061                | 8           |  |  | <del></del>                                      |            | +-  | 0.15 lbs  |                       | Fragment      |
| latural BrustyForest | 6              | 7 9906700              | 6 990670061                | 9           |  |  | <del></del>                                      |            | +   | 0.15 lbs  |                       | Fragment      |
| latural Brush/Forest | <del>  6</del> | 7 9906700              | 6 990670062                | 0           |  | <u> </u>   |  | -          | +   | 0.15      |                       | Fragment      |
| latural BrustyForest |                |                        | 6 990670062                | 1           |  |  | <del></del>                                      |            |   | 0.15 lbs  |                       | Fragment      |
| atural Brush/Forest  |                | 7 9906700              | 6 990670062                | 2           |  |  | _ <del> </del>                                   |            | <del></del>                                       | 0.15      |                       | Fragment      |
| latural Brush/Forest |                | 7 9906700              | 6 990670062                | 3           |  |  |  | -          | +   | 0.15 to   | <del></del>           | Fragment      |
| Vatural Brush/Forest |                | 7 9906700              | 6 990870062                | 4           |  |  |  |            |   | 0.15 lb   |                       | Fragment      |
| latural Brush/Forest |                | 7 9906701              | 0 990670100                | 1           |  |  |  | <b> </b> - | <del>-</del>                                      | 0.15 lb   |                       | Fragment      |
| intural Brush/Forest |                | 7 9908701              | 0 990670100                | 12          |  |  |  | <u> </u>   |   | 0.15 lb   |                       | Fragment      |
| Natural Brush/Forest |                |                        | 0 990670100                |             |  |  |  |            | <del></del>                                       |           |                       | Fragment      |
| Valural Brush/Forest |                |                        | 0 990670100                |             |  |  |  | <u> </u>   | 1   | 0.15 lb   |                       | Fragment      |
| Vatural BrustyForest |                |                        | 0 990670100                |             |  |  |  | <b></b>    | <del>                                      </del> | 0.15 fb   |                       | Fragment      |
| Natural Brush/Forest |                |                        | 6 990130060                |             | 1  |  |  | ļ          | <del>                                     </del>  | 0.15 lb   |                       |               |
|                      |                |                        | 6 990130060                |             | <del></del>                                      |  |  | <u> </u>   | 1   | 0.15 lb   |                       | Fragment      |
| latural Brush/Forest |                | 3 9901300              |                            |             |  |  |  | 1          |   | 0.15 lb   |                       | Fragment      |
| latural Brush/Forest |                |                        |                            |             | <del>-  </del>                                   |  |  |            |   | D.15 N    |                       | Fragment      |
| latural BrustyForest |                |                        |                            |             | <del>                                     </del> |  |  |            |   | 0.15 %    |                       | Fragment      |
| latural Brush/Forest |                |                        |                            | _           | <del></del>                                      |  |  |            |   | 0.15 lt   |                       | Fragment      |
| Vatural Brush/Forest |                |                        |                            |             | <del></del>                                      | <del>- </del> -                                    |  |            |   | 0.15 R    |                       | Fragment      |
| Natural Brush/Forest |                | 13 9901300             |                            |             | <del></del>                                      | <del> </del>                                       |  | ļ <u> </u> |   | 0.15      |                       | Fragment      |
| Natural Brush/Forest |                | 13 9901300             |                            | _           |  | <del> </del>                                       |  |            |   | 0.15      | bs                    | Fragment      |
| Natural Brush/Forest |                | 13 9901300             |                            |             | <del>- </del>                                    | <del></del>  |  |            | 1   | 0.15 R    | bs                    | Fragment      |
| Natural Brush/Forest |                | 13 990130<br>13 990130 | 06 99013006<br>10 99013010 |             | <del></del>                                      |  | <del>                                     </del> | 1          | $\neg$  | 0.15      | bs                    | Fragment      |

| SECTORS NAME         | GRID ID | ANOMALY ID | OBJECT ID EASTING | MODILINO   | DESCRIPTION                           |  |                   | DEPTH  |         | WEIGHT                                       |   |  |
|----------------------|---------|------------|-------------------|--|---------------------------------------|--|-------------------|--|---------|--|---|--|
| Natural Brush/Forest | 13      |            |                   | HORIMAG  | DESCRIPTION                           | COMMENTS                               | DEPTH             | UNITS  | WEIGHT  |  | <b>EXPLOSIVE</b>                                  | OBJ NAM                                      |
| latural Brush/Forest | 13      |            | 9901301002        | <del></del>                                      |                                       |  |                   | T  | 0.15    | N-a  | <del></del>                                       |  |
| fatural Brush/Forest | 13      | 99013010   | 9901301003        |  |                                       |  |                   | <del>                                     </del> | 0.15    | _  | <del> </del>                                      | Fragment                                     |
| latural Brush/Forest | 13      |            | 9901301301        | .i   |                                       |  |                   |  | 0.15    |  | <del>                                      </del> | Fragment                                     |
| latural Brush/Forest |         |            | 9901301302        | ļ  |                                       |  |                   | <del></del>                                      | 0.15    |  | <del>                                      </del> | Fragment                                     |
| Vatural Brush/Forest | 13      |            | 9901301303        |  |                                       |  |                   | <del>-</del> -                                   | 0.15    |  | <del> </del>                                      | Fragment                                     |
| Vatural Brush/Forest | 13      |            | 9901301304        |  | Barbed wire                           |  |                   | <del>-</del>                                     | 0.15    |  | <del> </del>                                      | Fragment                                     |
| latural Brush/Forest | 13      |            | 9901301701        |  |                                       |  |                   | -  | 0.15    |  | <del> </del>                                      | Scrap  |
| tatural Brush/Forest | 13      |            | 9901301702        |  |                                       |  |                   |  | 0.15    |  | <del></del> -                                     | Fragment                                     |
| tatural Brush/Forest | 13      |            | 9901301703        |  |                                       |  | <del>-  </del> -  |  |         |  |   | Fragment                                     |
|                      | 13      |            | 9901301704        | <u> </u>   |                                       |  | <del></del>       |  | 0.15    |  |   | Fragment                                     |
| latural Brush/Forest | 13      |            | 9901301705        |  |                                       |  | <del></del>       |  | 0.15    |  |   | Fragment                                     |
| letural Brush/Forest | 13      |            | 9901301706        |  |                                       |  |                   |  | 0.15    |  | ļi  | Fragment                                     |
| (atural Brush/Forest | 13      |            | 9901301707        |  |                                       |  | <del></del>       |  | 0.15    |  |   | Fregment                                     |
| latural Brush/Forest | 13      | 99013017   | 9901301708        |  |                                       | <del></del>                            |                   |  | 0.15    |  |   | Fragment                                     |
| letural Brush/Forest | 16      |            | 9901600301        | T  |                                       | <del></del>                            |                   |  | 0.15    |  |   | Fragment                                     |
| latural Brush/Forest | 16.     | 99016007   | 9901600701        |  |                                       | <del></del>                            |                   |  |         | bs   |   | Fragment                                     |
| Istural Brush/Forest | 18      |            | 9901601001        | <del>-</del>                                     |                                       |  | <del></del>       |  |         | be   |   | Fragment                                     |
| latural BrusivForest | 15      |            | 9901500301        |  |                                       |  |                   |  |         | bs   |   | Fragment                                     |
| atural Brush/Forest  | 5       | 99005002   | 9900500201        |  | ··                                    |  |                   |  | 3       |  |   | Fragment                                     |
| atural Brush/Forest  | 198     |            | 9919800201        |  |                                       | —————————————————————————————————————— |                   |  | 0.5     |  |   | Fragment                                     |
| atural Brush/Forest  | 199     | 99199003   | 9919900301        | <del>                                     </del> |                                       |  |                   |  | 0.33    | be   |   | Fragment                                     |
| atural Brush/Forest  | 199     |            | 9919900601        | <del> </del> -                                   | <u> </u>                              |  |                   |  | 1.4     | be   |   | Scrap  |
| atural Brush/Forest  | 200     | 99200003   | 9920000301        | <del></del>                                      |                                       | <del></del>                            |                   |  | 1.4     | 8  |   | Scrap  |
| inefam               | 206     |            | 9920601001        | <del>[</del>                                     |                                       |  | <u> </u>          |  | 0.33    | bs   |   | Fragment                                     |
| Ineferm              | 81      |            | 9908100401        | <del> </del> -                                   |                                       | <del></del>                            | !                 |  | 1.25    | bs   |   | Fragment                                     |
| nefarm               | 64      |            | 9908400401        |  |                                       |  |                   |  | 5       | bs   |   | ragment                                      |
| mefarm               | 64      |            | 9906400801        | <del></del>                                      |                                       |  |                   |  | 0.25    | bs   |   | ragment                                      |
| nefarm               | 31      |            | 9903100101        | <del></del>                                      | <del></del>                           |  |                   |  | 0.25    | be   |   | ragment                                      |
| netarm               | 31      |            | 9903100501        | · · · · · · · · · · · · · · · · · · ·            |                                       |  |                   |  | 0.25    | D8   |   | Fragment                                     |
| netarn               | 31      |            | 9903100901        | <del> </del>                                     | <del></del>                           |  |                   |  | 0.5     | bs   | <del></del>                                       | Fragment                                     |
| dural Brush/Forest   | 10      |            | 9901900101        | ·  | <del></del>                           |  |                   |  | 0.25    | be   |   | regment                                      |
| dural Brush/Forest   | 35      |            | 9903500101        | ļ  |                                       |  |                   |  | 0.5     |  |   | ragment                                      |
| stural Brush/Forest  | 35      |            | 9903500102        |  |                                       |  |                   |  | 0.25    |  |   | regment                                      |
| stural Brush/Forest  | 26      |            | 9902600301        |  | Metal stake                           |  |                   |  | 2       |  |   | Scrap  |
| Mural Brush/Forest   | 14      |            | 9901400301        | <u> </u>   |                                       |  |                   |  | 0.11    |  |   | ragment                                      |
| stural Brush/Forest  | 14      |            | 9901400302        |  | - <u> </u>                            |  |                   |  | 0.15    |  |   |  |
| neferm               | 85      | 99065014   |                   | <b></b>  |                                       |  |                   |  | 0.15    |  |   | ragment                                      |
| neterm               | 85      |            | 9908501801        | <b></b>  |                                       |  | <del>-   </del>   |  |         | =  |   | ragment                                      |
| netarm               | 88      | 99088004   | 700001601         |  |                                       |  | <del></del>       | <del></del>                                      | 0.5     | <del>.  </del>                               | <del></del>                                       | ·  |
| netarri              |         |            |                   |  |                                       |  | <del></del>       | <del></del> +                                    | V.5 R   | <del>~</del>                                 | <del> </del> '                                    | ragment                                      |
| referm               | 68      |            | 9908800901        |  |                                       |  | ╼                 |  | 0.25    | <del>_  </del>                               | <del>  </del>                                     | <u>.                                    </u> |
| efarm                | 87      |            | 9906700301        |  |                                       |  | _                 |  |         |  |   | ragment                                      |
| efarm                | 88      |            | 9908900201        |  |                                       |  | <del></del>       |  | 1 1     |  |   | ragment                                      |
|                      | 86      |            | 9908600501        |  |                                       | <del></del>                            | <del></del>       | <del></del>                                      | 0.5 R   |  |   | ragment                                      |
| netarm               | 86      |            | 9908600901        |  | · · · · · · · · · · · · · · · · · · · |  | <del></del>       |  | 0.25 R  |  | F   | ragment                                      |
| efarm                | 62      |            | 908200301         |  | Small frag around excev.              |  | <del>-   </del> - | <b></b> -↓                                       | 0.5     |  | F   | ragment                                      |
| eterm                | 62      | _          | 906200801         |  |                                       |  | <del></del>       |  | 0.25 It |  | F   | ragment                                      |
| efarm                | 85      | 99065004 9 |                   | <del></del>                                      |                                       | <del></del>                            | ╼╄╌╼┵             |  | 0.25 R  |  |   | regment                                      |
| tural Brush/Forest   | 94      | 99094011 8 | 909401101         |  |                                       | <del> </del>                           | <del></del>       |  | 0.5 16  | <u>.                                    </u> |   | ragment                                      |
|                      |         |            |                   |  |                                       |  |                   |  | 0.25 R  |  |   | ragment                                      |



|  |                |          |                        |  |                |               |               |  | DEPTH  |                 | WEIGHT<br>UNITS | EXPLOSIVE   | ORJ NAME      |
|--|----------------|----------|------------------------|--|----------------|---------------|---------------|--|--|-----------------|-----------------|---|---------------|
|  |                |          | 4567 ID                | CARTING  | NORTHING       | DESCRIPTION   | COMMENTS      | DEPTH  | บทาร   |                 |                 | EXPLOSIVE   |               |
| ECTORS NAME                                  | GRID ID        |          |                        |  | 101111111111   |               | <del></del>   |  |  | 0.5             |                 | <del>  _                                     </del> | Fragment      |
| atural Brush/Forest                          | 93             | 99093003 | 9909300301             |  | ļ              | <del> </del>  |               |  | <u> </u>   | 0.5             |                 | <u> </u>  | Fragment      |
| atural Brush/Forest                          | 93             | 99093007 | 9909300701             | ll   | <u> </u>       | <u> </u>      |               |  |  | 0.25            |                 | <del> </del>  | Fragment      |
| atural Brush/Forest                          | 93             | 99093010 | 990930100              | <u> </u>   | <u> </u>       |               |               |  |  |                 | lbs             | <b></b> _   | Scrap         |
| latural Brush/Forest                         | 296            | 99296001 | 992960010              | Մ  | 1              |               |               |  | Τ  | 0.25            |                 | <del></del>   | Scrap         |
| latural Brush/Forest                         | 237            | 99237001 | 992370010              | <u> </u>   | <u> </u>       | Barbed wire   |               |  |  | 0.1             | lbs             | <u> </u>  | Scrap         |
| latural BrustVForest                         | 292            | 99292002 | 992920020              | !\   | <u> </u>       |               |               |  |  |                 |                 | <del> </del>  | Magnetic Rock |
| tatural Brush/Forest                         | 291            | 99291003 | 992910030              | 1  |                | Magnetic Rock | _ <del></del> |  | T  |                 |                 | 1   | Magnetic Rock |
| latural Brust/Forest                         | 290            | 99290004 | 992900040              | 1  |                | Magnetic Rock |               |  |  | 0.5             |                 |   | Fragment      |
| latural Brush/Forest                         | 90             | 99090002 | 990900030              | 11   |                |               |               |  |  | 0.5             | lbs             |   | Fragment      |
| Vatural Brush/Forest                         | 90             | 99090006 | 990900070              | 1  |                |               |               |  | 1  |                 | <u> </u>        |   |               |
|  | 90             | 99090009 |                        |  | II             |               |               |  | <del>                                     </del> |                 |                 |   | <b>└</b>      |
| tatural Brush/Forest                         | 91             | 99091004 |                        |  |                |               |               |  |  |                 |                 |   | <del></del>   |
| Vatural Brush/Forest<br>Vatural Brush/Forest | 91             | 99091007 | ·                      |  | 1              | <del></del>   |               | _  | 1  | 0.25            |                 |   | Fragment      |
| Natural Brush/Forest                         | 91             | 99091011 | 990910110              | 1  | l              | <u> </u>      |               |  | <del>                                     </del> | 0.25            |                 |   | Fragment      |
|  | 92             | 99092003 | 990920030              | 1  | I              | <del> </del>  |               |  | 1  | 0.25            |                 |   | Fragment      |
| Natural Brush/Forest<br>Natural Brush/Forest | 94             | 99094003 | 990940030              | ii   |                |               |               |  | 1  |                 | iba             |   | Fragment      |
|  | 48             | 99048017 | 990480170              | 11   | <u> </u>       |               |               |  |  | 0.5             | lbs             | <u> </u>  | Fragment      |
| Pinefarm                                     | 48             | 99048022 | 990460220              | 11   |                |               |               |  |  |                 | T               |   | <del></del> _ |
| Pinefarm                                     | 48             | 99048020 |                        |  |                |               |               |  |  | 0.2             | 5 libs          |   | Fragment      |
| Pinefarm                                     | 47             | 8904700  | 990470010              | 71   |                |               |               |  |  | 0.2             | 5 lbs           |   | Fragment      |
| Pinefarm                                     | 47             | 9904700  | 990470050              | 71   |                |               |               |  |  | 0.2             | 5 lbs           |   | Fragment      |
| Pinefarm                                     | 47             |          | 99407008               | <u> </u>   |                |               |               |  | <del></del>                                      | 0.2             | 5 lbs           |   | Fragment      |
| Pinefarm                                     | 47             |          | 2 99047012             | 51   |                |               |               |  |  | 0.2             | 5 lbs           |   | Fragment      |
| Pinefarm                                     | 47             |          | 5 99047015             | 01   |                | <u> </u>      |               | <del></del>                                      | _  | 0.              | 5 lbs           |   | Fragment      |
| Pinefarm                                     | + 77           |          | 9 99047019             | D1   |                |               |               |  |  |                 | T               |   |               |
| Pinefarm                                     | 47             |          |                        |  |                | <u> </u>      |               |  | _  | 0.2             | 5 lbs           |   | Fragment      |
| Pinefarm                                     | <del>-  </del> |          | 6 99047026             | 01   |                |               |               | <del></del>                                      |  | 0.2             | 5 lbs           |   | Scrap         |
| Pinefarm                                     | 47             | 9904702  | 6 99047026             | 02   |                | <u> </u>      |               | <del>-                                    </del> |  | <del></del>     |                 |   |               |
| Pinefarm                                     |                |          |                        |  |                | <u> </u>      |               | <del>-  </del>                                   | <del>-  </del>                                   |                 |                 |   | _]            |
| Natural Brush/Forest                         |                |          |                        |  |                |               |               | <del></del>                                      | <del>                                     </del> | 1               | 1 lbs           |   | Fragment      |
| Natural Brush/Forest                         |                | 9925800  | 4 99258004             | 01   |                |               |               |  |  | 0.2             | 5 lbs           |   | Fragment      |
| Natural Brush/Forest                         |                |          | 8 99258008             | 01   |                |               |               |  |  |                 |                 |   |               |
| Natural Brush/Forest                         |                |          |                        |  |                |               |               | <del></del>                                      | <del></del> -                                    |                 |                 |   |               |
| Natural BrustyForest                         |                |          |                        |  | <u> </u>       |               |               | <del></del>                                      |  |                 | $\top$          |   |               |
| Natural Brush/Forest                         |                |          |                        |  | _              |               |               |  | <del>-  </del>                                   |                 | .5 lbs          |   | Fragment      |
| Natural Brush/Forest                         | 250            |          | 99048001               | 01   |                |               |               | <del></del>                                      | <del></del> -                                    | <del></del>     | 1 lbs           |   | Fragment      |
| Pinefarm                                     | 41             |          | 06 99048000            | 101  |                |               |               |  |  | 0               | 25 lbs          |   | Fragment      |
| Pinefarm                                     | 4              |          | 01 9923300             | 101  |                |               |               |  |  |                 | 25 lbs          | <u> </u>  | Fragment      |
| Natural Brush/Fores                          |                |          | 04 9923300             | 101  |                |               |               |  | <del>-                                    </del> |                 | 25 lbs          |   | Fregment      |
| Natural Brush/Fores                          |                |          | 08 9923300             | 201  |                |               |               |  |  | <del></del>     | <del></del> -   |   |               |
| Natural BrustyFores                          |                |          |                        | <del>~                                    </del> |                |               |               |  |  |                 | <del></del>     | <del>-                                    </del>    |               |
| Natural Brush/Fores                          |                |          |                        | <del>-1</del>                                    | -1             |               |               |  |  | <del>-  </del>  | 25 lbs          | -   | Fragment      |
| Natural BrustyFores                          |                |          | 19 9923301             | 901  |                |               |               |  |  | <del>-+-"</del> |                 | <del></del>   |               |
| Natural Brush/Fores                          |                |          |                        | ~'   |                |               |               |  |  |                 | 0.5 lbs         | <del> </del>  | Fragment      |
| Natural Brush/Fores                          |                |          | U4                     | <del></del>                                      | <del>-  </del> |               |               |  |  | <del></del> '   | 1 lbs           |   | Fragment      |
| Natural Brush/Fores                          |                |          | 08 9924700             | 201  | _+             |               |               |  |  |                 | 2 lbs           | <del>-  </del>                                      | Scrap         |
| Natural Brush/Fores                          |                |          | 03 9924600             | 201  |                | <del></del>   |               |  |  | _+-             | 2 103<br>1 fbs  | _   | Fragment      |
| Natural Brush/Fores                          | st 25          | 2 992520 | 9925200<br>005 9925100 | 2011   |                |               |               |  | 1  | 1               | I JIDS          |   | 1             |

|                       | GRID ID | ANOMALY ID       | OBJECT IO  | EASTING     | NORTHING    | DESCRIPTION          | COMMENTS       | DEPTH             | DEPTH<br>UNITS | WEIGHT         | WEIGHT<br>UNITS | EXPLOSIVE    | OBINA       |
|-----------------------|---------|------------------|------------|-------------|-------------|----------------------|----------------|-------------------|----------------|----------------|-----------------|--------------|-------------|
| Intural Brush/Forest  | 250     | 99250002         | 9925000201 |             | j           | <u> </u>             |                |                   | · · · · · ·    |                |                 | CAPLOSIVE    | VIDA RUCINE |
| latural Brush/Forest  | 236     | 99236002         | 9923800201 |             |             |                      |                |                   | <del></del> -  | 0.5            |                 | ļ            | Fragment    |
| atural Brush/Forest   | 236     | 99236006         |            |             |             |                      |                |                   |                | 0.25           | lbs .           |              | Fragment    |
| latural Brush/Forest  | 238     | <b>P923</b> 8010 |            |             |             | <del></del>          |                |                   |                |                |                 |              |             |
| latural Brush/Forest  | 236     | 99236014         | <u></u>    |             |             |                      | <del></del>    |                   |                | <del> </del> _ |                 | ļ            |             |
| laturai Brust/Forest  | 236     | 99236017         |            |             |             |                      |                | <del></del>       |                | <del> </del>   |                 |              |             |
| atural Brush/Forest   | 212     | 99212006         | 9921200601 |             |             |                      |                |                   |                |                |                 |              |             |
| atural Brush/Forest   | 212     | 99212009         | 9921200901 |             |             |                      |                |                   |                | 0.25           |                 |              | Fragment    |
| atural Brush/Forest   | 212     | 99212013         | 9921201301 |             |             |                      |                |                   |                | 0.25           |                 |              | Fragment    |
| atural Brust/Forest   | 212     | 99212017         | 9921201701 |             |             | <del></del>          | <del></del>    |                   |                | 0.5            | _               |              | Fragment    |
| atural Brush/Forest   | 245     | 99245003         | 9924500301 |             |             | <u> </u>             | <del></del>    |                   |                | 0.5            |                 |              | Fragment    |
| atural Brush/Forest   | 245     | 99245008         | 9924500601 |             | -           |                      | <del></del>    |                   |                | 0.5            |                 | L            | Fragment    |
| atural BrustyForest   | 246     | 99246002         | 9924600201 |             |             |                      | <del></del>    | <del>_</del>      |                |                | lbe             |              | Fragment    |
| tural Brush/Forest    | 247     | 99247002         |            |             |             |                      | <del></del> -  |                   |                | 1              | bs              |              | Fragment    |
| ond                   | 133     | 99133008         |            |             |             |                      | <del></del>    |                   |                |                |                 |              | _           |
| ond                   | 132     | 99132001         | 9913200101 |             |             |                      | <del></del>    |                   |                |                |                 |              |             |
| ond                   | 132     |                  | 9913200501 |             |             | ·                    | <del> </del>   |                   |                | 0.25           |                 |              | Scrap       |
| ond                   | 132     | 99132008         |            |             |             | <u> </u>             | <del></del>    |                   |                | 0.25           | lbs.            |              | Screp       |
| indfill and Compostin | 79      | 99079001         | 9907900101 |             |             | <u> </u>             |                | _                 |                |                |                 |              |             |
| ndill and Compostin   | 79      |                  | 9907900501 |             |             |                      |                |                   |                | 0.25           | lbs.            |              | Fragment    |
| ndfill and Compostin  | 79      |                  | 9907900801 |             |             |                      |                |                   |                | 0.25           | ibe .           |              | Fragment    |
| ndfill and Compositn  | 79      |                  | 9907901201 |             |             | <del></del>          |                |                   |                | 0.25           | lbs             |              | Fragment    |
| and                   | 151     |                  | 9915100601 |             |             |                      |                |                   |                | 0.25           | lbs             |              | ragment     |
| ond                   | 151     |                  | 9915101001 |             |             |                      |                |                   |                | 0.25           | lbe             |              | ragment     |
| end                   | 151     |                  | 9915101401 |             |             |                      |                |                   |                | 0.5            | bs              |              | ragment     |
| end                   | 151     |                  | 9915101801 | <del></del> |             | <del></del>          | F -            |                   |                | 0.5            | be              |              | regment     |
| ind                   | 151     |                  | 9915102101 |             |             | <u> </u>             |                |                   |                | 0.25           | bs              |              | ragment     |
| nd                    | 135     |                  | 9913500201 |             | <del></del> |                      |                |                   |                | 0.25           | be              |              | ragment     |
| ind                   | 135     |                  | 9913500601 |             |             | <u>.</u>             |                |                   |                | 0.5            |                 |              | Scrap       |
| nd                    | 152     |                  | 9915201101 |             |             |                      |                |                   |                |                | be              |              | Scrap       |
| nd -                  | 152     |                  | 9915201801 | <del></del> |             | Fuze body (expended) |                |                   |                | 0.5            |                 |              | ragment     |
| nd -                  | 152     |                  | 9915202201 |             |             |                      |                |                   |                | 0.25           |                 |              | ragment     |
| nd -                  | 149     |                  |            | <del></del> |             |                      |                |                   |                | 0.5            |                 |              |             |
| nd -                  | 149     |                  | 9914900401 |             |             |                      |                | <del></del>       |                | 0.5            |                 |              | regment     |
| nd -                  |         |                  | 8914900801 |             |             |                      |                | <del>- 1 1</del>  |                | 0.25           |                 |              | ragment     |
| tural Brush/Forest    | 149     | 99149011         |            |             |             | Fuze body            |                | <u> </u>          |                | 0.5            |                 |              | ragment     |
| tural Brush/Forest    | 214     |                  | 9921402901 |             |             |                      |                | <del> </del>      |                | 0.25           |                 |              | ragment     |
| tural Brush/Forest    | 215     | 99215007         |            |             |             |                      |                | <del> </del>      | <del></del>    | V.23           | -               | <del> </del> | ragment     |
| tural Brush/Forest    | 215     |                  | 9921501101 |             |             |                      |                | <del></del>       |                | 0.25           | = -             | -            |             |
| ural BrustyForest     | 216     |                  | 9921600101 |             |             |                      |                | <del></del>       |                | 0.25           |                 |              | ragment     |
|                       | 216     | 99216004         |            |             |             |                      |                | ╼╁╼┈╼╂            |                | V.23           | U76             | <del></del>  | ragment     |
| ural Brush/Forest     | 216     | 99216008         | [          |             |             |                      |                | ╌╂╾╌╾┩            | ·              | <u> </u>       |                 |              |             |
| ural BrustyForest     | 213     |                  | 9921300301 |             |             |                      | <del>-  </del> | <del></del>       | —              | <del></del>    | <del></del>     |              |             |
| ural Brush/Forest     | 213     |                  | 9921300601 |             |             |                      | <del></del>    | ╼╂╼╌╌╁            |                | 0.25           |                 |              | ragment     |
| tural Brush/Forest    | 213     | 99213010         |            |             |             |                      |                | <del>-   </del>   | <del></del>    | 0,25           | D\$             | JF           | ragment     |
| tural Brush/Forest    | 213     | 99213014 1       |            |             |             | <del></del>          | <del></del>    | <del>-   </del> - |                |                |                 | l            |             |
| ural Brush/Forest     | 213     | 99213018         | 9921301801 |             |             | <u>-</u>             |                | <del></del>       |                | 0.25 N         |                 |              | ragment     |
| tural Brush/Forest    | 213     | 99213021         | 9921302101 |             |             |                      | <del></del>    | <del></del>       |                | 0.25           |                 |              | ragment     |
| urai Brush/Forest     | 214     | 99214002 1       | 9921400201 |             |             | <del></del>          |                | 1 1               |                | 0.25 8         | bs T            | - 6          | ragment     |



|                       |                |            |                            |                   |  |             |                  |             | DEPTH  |  | WEIGHT             |                |              |
|-----------------------|----------------|------------|----------------------------|-------------------|--|-------------|------------------|-------------|--|--|--------------------|----------------|--------------|
|                       |                |            |                            |                   | HORTHING   | DESCRIPTION | COMMENTS         | DEPTH       | UNITS  | WEIGHT   | UNITS              | EXPLOSIVE      |              |
| CTORS NAME            | GRID ID        | ANOMALY ID | OBJECT ID                  | EASTING           | NORTHING   | DESCRIPTION | <del></del>      |             |  | 1  | ibs                |                | Fragment     |
|                       | 209            | 99209001   | 9920900101                 | il —              |  |             |                  |             | <del></del>                                      | 0.25   |                    |                | Fragment     |
| tural Brush/Forest    | 209            |            |                            |                   |  |             |                  |             |  | 0.75   | lbs                |                | Fragment     |
| nural Brush/Forest    | 209            | 99209008   | 992090080                  | 1                 |  |             |                  |             |  | 0.5  | lbs                |                | Fragment     |
| itural Brush/Forest   | 209            | 99209012   | 992090120                  | 1                 |  |             |                  |             | ╁  | 0.25   | lbs                |                | Fragment     |
| tural BrustvForest    | 209            |            | 992090170                  | 1                 |  |             |                  |             | u  | 0.75   | lbs                |                | Fragment     |
| itural Brush/Forest   | 209            | 99209020   | 992090200                  | 1                 |  |             |                  |             | <del> </del>                                     | 0.25   | lbs                |                | Fragment     |
| tural Brush/Forest    | 209            |            | 992090240                  | 1                 |  | <u></u>     |                  |             |  | 0.25   | ibs                |                | Fragment     |
| tural Brush/Forest    | 210            | 99210001   | 992100010                  | 1                 |  |             |                  |             | <u> </u>   | 0.29   | 5 libs             |                | Fragment     |
| atural Brush/Forest   | 210            |            | 992100050                  | 1                 |  | <u> </u>    |                  |             |  | 0.7  | libs               |                | Fragment     |
| atural Brush/Forest   | 210            |            | 992100080                  | 1                 | T  |             |                  |             | ┼  | 0.2  | 5 libs             |                | Fragment     |
| atural Brush/Forest   | 210            |            | 992100120                  | त                 | T  | <u> </u>    |                  |             | +  | 0.2  | 5 lbs              |                | Fragment     |
| atural Brush/Forest   | 210            |            | 992100160                  | 1                 |  |             |                  |             | +  | 1.   | 5 lbs              |                | Fragment     |
| atural BrustyForest   | 210            |            | 992100200                  | 11                |  |             |                  |             | +-   | Ö.   | 5 lba              |                | Scrap        |
| atural BrustvForest   | 210            |            | 3 992100230                | nl                |  | <u> </u>    |                  | <del></del> | +  |  | 5 lbs              |                | Fragment     |
| atural Brush/Forest   | 20             |            | 2 992010020                | 71                |  |             |                  |             | <del>                                     </del> | <del>                                     </del> |                    |                | Soil Layer   |
| atural Brush/Forest   | 20             |            | 1 992020010                | 71                |  | Soil layer  |                  |             | <del>                                     </del> | 0.2  | 5 lbs              | T              | Fragment     |
| atural Brush/Forest   | 20             | 9020200    | 4 992030040                | 01                |  |             |                  |             | +  | 0.2  | 5 lbs              |                | Fragment     |
| atural Brush/Forest   |                |            | 7 992030070                | 31                |  |             |                  |             | <del> </del> -                                   |  | 5 lbs              |                | Fragment     |
| latural Brush/Forest  | 20:            |            | 1 992030110                | 31                | <del>                                     </del> |             |                  |             |  | <del>                                     </del> |                    |                |              |
| latural Brush/Forest  | 20:            |            |                            | -                 | <del></del>                                      |             |                  |             | <del> </del>                                     | 1 02   | 5 lbs              |                | Fragment     |
| latural Brush/Forest  | 20             |            | 3 99203023                 | <del>51</del>     | <del></del>                                      |             |                  |             | <del></del>                                      |  | 5 lbs              |                | Fragment     |
| Intural Brush/Forest  | 20             |            | 7 99203027                 | 511               |  |             |                  | <del></del> | +  | +  | 1 lbs              |                | Fragment     |
| latural Brush/Forest  | 20             |            | 99180030                   | n <sub>1</sub>    | <del></del>                                      |             |                  |             |  | <u> </u>   | 25 lbs             |                | Fragment     |
| andfill and Compostir |                |            | 9 99154009                 | 011               |  |             |                  |             |  |  | 39 lbs             |                | Fragment     |
| Pond                  | 15             |            | 4 99177004                 | 61                |  |             |                  |             |  |  | 39 lbs             |                | Fragment     |
| andfill and Compostil |                |            | 9 99177009                 | 01                |  |             |                  |             | <del></del>                                      | <del> </del>                                     | 1 lbs              |                | Fragment     |
| andfill and Compostin |                |            | 99180003                   | 011               |  |             |                  |             |  | <del>-}</del> ;                                  | ).5 lbs            |                | Fragment     |
| andfill and Composti  |                |            | 10 99180010                | 01                |  |             |                  |             |  | <del></del>                                      | 1 lbs              |                | Fragment     |
| andfill and Composti  |                |            | 18 99180018                | 01                |  |             |                  |             |  |  | 1 lbs              |                | Fragment     |
| Landfill and Composti |                | 991800     | 25 99180025                | 51                | <del></del>                                      |             |                  |             | <del></del>                                      | <del>-                                    </del> | 25 lbs             |                | Fragment     |
| Landfill and Composti |                |            | 09 99155009                | 201               | <del></del>                                      |             |                  |             |  | <del></del>                                      |                    |                |              |
| Pond                  |                |            |                            | <del>~</del>      | <del> </del>                                     |             |                  |             |  | <del>-}-</del>                                   | .25 lbs            | <del>-  </del> | Fragment     |
| Pond                  |                | 55 991550  | 18 99155018                | -                 |  |             |                  |             | ——   |  | 0.5 lbs            |                | Scrap        |
| Pond                  |                | 991550     | 01 99121001                | 101               |  |             |                  |             | _}_  | <del>-  </del>                                   | <del>0.01.00</del> |                |              |
| Pond                  |                |            |                            | <del>''' </del> - |  |             |                  |             |  |  |                    |                |              |
| Pond                  |                | 21 991210  |                            | <del></del>       | -+   |             |                  |             |  |  | <del></del>        |                | Magnetic Roo |
| Pond                  |                | 24 991240  | 031                        | 701               | <del>-  </del>                                   |             | Soil and Magneti | ic Rock     |  | <del>-   - ,</del>                               | .25 lbs            |                | Fragment     |
| Pond                  |                |            | 07 9912400                 | 404               |  |             |                  |             |  |  | 0.1 lbs            |                | Fragment     |
| Pond                  |                |            | 04 9915400                 | 401               | <del></del>                                      |             |                  |             |  |  | 0.1 lbs            |                | Fragment     |
| Natural Brush/Forest  |                |            | 24 9904502                 | 601               | <del></del>                                      |             |                  |             |  | <del></del>                                      | 0.5 lbs            |                | Fregment     |
| Pinefarm              |                |            | 9910900                    | 001               | _  |             |                  |             |  |  | 15 libs            | -              | Scrap        |
| Pinefarm              |                |            | 9910900                    | 2021              | <del></del>                                      |             |                  |             |  |  |                    |                | Fragment     |
| Pinefarm              |                | 09 991090  | 009 9910900                | 204               | _+   |             |                  |             |  |  | 3 lbs              |                |              |
| Pinefarm              |                |            | 013 9910901                | 301               |  | <del></del> |                  |             |  |  | n of the           |                | Fragment     |
| Pinefarm              | 1              | 09 99109   | 017                        |                   | <del></del>                                      |             |                  |             |  |  | 0.25 lbs           |                | Fragment     |
| Pinefarm              | 1 7            | 09 99109   | 020 9910902                | 2001              | ——   |             |                  |             |  |  | 0.25 lbs           |                | Fragment     |
| Pinefarm              | 1              | 109 99109  | 024 9910902                | 2401              |  |             |                  |             |  |  | 0.5 lbs            |                | Fragment     |
| Pinefarm              | <del>-</del> - | 09 98109   | 028 9910902<br>032 9910903 | 2801[             |  |             |                  |             |  | · 1  | 0.5 lbs            |                | Linglingin   |

| SECTORS NAME                             | griid id | ANOMALY ID | OBJECT ID  | EASTING     | MORTHMA         | DESCRIPTION                           |                 |               | DEPTH          |           | WEIGHT      |                    |                       |
|--|----------|------------|------------|-------------|-----------------|---------------------------------------|-----------------|---------------|----------------|-----------|-------------|--------------------|-----------------------|
| Pinetarm                                 | 109      |            |            |             | HOITING         | DESCRIPTION                           | COMMENTS        | DEPTH         | UNITS          | WEIGHT    |             | EXPLOSIVE          | <b>OD</b> 4 444 4 444 |
| Natural Brush/Forest                     | 12       | 99109035   |            | <u> </u>    |                 |                                       | <del></del>     | <del></del> _ | ·              |           |             | EVELOSIVE          | OBJ KAME              |
| Natural Brush/Forest                     | 12       |            | 9901202201 | <u> </u>    |                 |                                       |                 | <del></del>   | <u> </u>       | <b></b> _ |             |                    |                       |
| Natural Brush/Forest                     | 10       |            |            |             |                 |                                       |                 |               | <u> </u>       | 0.25      |             |                    | Fragment              |
| Natural Brush/Forest                     | 10       | 99010004   | 9901000401 | <u> </u>    |                 |                                       |                 | <del></del> - | <u> </u>       | 0.25      |             |                    | Fragment              |
| Netural Brush/Forest                     | 10       | 99010007   | 9901000701 |             |                 |                                       |                 | <del></del> - |                | 0.25      |             |                    | Fragment              |
| Natural Brush/Forest                     | 10       | 99010011   | 9901001101 |             | L               |                                       |                 | <del></del>   |                | 0.25      |             |                    | Fragment              |
| latural Brush/Forest                     |          | 99010015   | 9901001501 |             |                 |                                       | <del></del>     | <del></del> - |                | 0.25      |             |                    | Fragment              |
| latural Brush/Forest                     | 10       |            | 9901001501 | _           |                 |                                       |                 |               |                | 0.25      | 2           |                    | Fragment              |
| latural Brust/Forest                     | 10       | 99010022   |            |             |                 |                                       | <del></del>     |               |                | 0.25      | 2           |                    | Fragment              |
| latural Brush/Forest                     | 45       |            | 9904500401 |             |                 |                                       |                 | <del></del>   |                |           |             |                    |                       |
| letural Brush/Forest                     | 45<br>70 | 99045009   | 9904500901 |             |                 |                                       |                 |               |                | 0.1       |             |                    | Fragment              |
| intural BrushyForest                     |          | 99070003   | 9907000301 |             |                 |                                       | <del></del> +   |               |                | 0.1       | be          |                    | Fragment              |
| letural BrustyForest                     | 72       | 99072001   | 9907200101 |             |                 |                                       |                 | <del></del>   |                |           | İbe         |                    | Fragment              |
| latural BrustyForest                     | 72       | 99072005   | 9907200501 |             |                 |                                       | <del></del>     | <del>  </del> |                | 0.5       |             |                    | Fragment              |
| atural BrustyForest                      | 72       | WW072008   | 9907200801 |             |                 |                                       | <del></del>     | <del></del> - |                | 0.5       |             |                    | Fragment              |
| atural Brush/Forest                      | 72       |            | 9907201201 |             |                 |                                       | <del>  </del>   | <del></del> - |                | 0.25      | be          |                    | ragment               |
| atural BrustyForest                      | 12       | 99012004   | 9901200401 |             |                 |                                       | <del> </del>    | <del></del>   |                | 0.5       | bu          |                    | Fragment              |
| atural BrushVForest                      | 42       |            | 9904200701 |             |                 |                                       |                 | —-  <u>-</u>  |                | 0,25      | lbs.        |                    | Fragment              |
| atural Brush/Forest                      | 38       | 99038003   |            |             |                 |                                       | <del></del>     | 1             |                | 0.5       | bs          |                    | ragment               |
| atural Brush/Forest                      | 39       | 99039002   | 9903900201 |             |                 |                                       | <del></del>     |               |                |           |             |                    |                       |
| etural BrusivForest                      | 39       |            | 9903900801 |             |                 |                                       |                 |               |                | 0.25      | bs          |                    | ragment               |
| stural BrustyForest                      | 39       |            | 9903901001 |             |                 |                                       |                 |               |                | 0.25      |             | i                  | ragment               |
| atural Brush/Forest                      | 39       | 99039013   |            |             |                 |                                       | <del>-  </del>  |               |                | 0.25      | bs.         |                    | ragment               |
|  | 39       | 99039017   | 9903901701 |             | <del></del>     | <del></del>                           |                 | I             |                |           |             |                    |                       |
| atural Brush/Forest                      | 39       | 99039021   | 9903902101 |             |                 |                                       |                 |               |                | 0.25      | bs .        |                    | ragment               |
| stural Brust/Forest                      | 40       | 99040002   | 9904000201 |             |                 |                                       |                 |               |                | 0.25      |             |                    | ragment               |
| tural Brush/Forest                       | 40       | 99040006   | 9904000601 |             |                 |                                       |                 |               |                | 0.25      | bs          |                    | crap                  |
| tural Brush/Forest                       | 34       | 99034020   | 9903402001 |             |                 |                                       | ·               |               |                | 0.25      | ba          |                    | ragment               |
| Mural Brush/Forest                       | 32       | 99032011   | 9903201101 |             |                 |                                       | <del></del>     |               |                | 21        | 58          |                    | ragment               |
| itural Brush/Forest                      | 32       |            | 9903201401 |             |                 | <del></del>                           |                 |               |                | 0.25      | hs          |                    | ragment               |
| tural Brush/Forest                       | 32       | 99032018 1 | 9903201801 |             |                 |                                       |                 |               |                | 0.5 1     | Dis .       |                    | ragment               |
|  | 32       | 99032021   |            |             |                 |                                       | <del></del>     | <u> </u>      |                | 1 1       | ×           |                    | ragment               |
| tural BrustyForest<br>tural BrustyForest | 33       |            | 9903300201 |             |                 | · · · · · · · · · · · · · · · · · · · | <u>-</u>        | <u> </u>      |                | 0.5       | X6          |                    | ragment               |
| tural Daniel Toront                      | 36       | 99036002   | 903600201  | _           |                 |                                       | <del>   </del>  | _ [           |                | 0.25      | × ×         |                    | ragment               |
| tural Brush/Forest                       | 38       | 99036007   |            |             |                 |                                       |                 | $\bot$        |                | 0.25 R    | × 1         |                    | ragment               |
| tural Brush/Forest<br>Iural Brush/Forest | 34       | 99034004 9 | 903400401  |             |                 |                                       | <del></del>     | <u> </u>      |                | 0.5       | *           |                    | Стар                  |
| tural Brush/Forest                       | 34       | 99034011 6 | 903401101  |             |                 | -                                     | ·               |               |                | 2 1       | 18          |                    | ragment               |
| efarm                                    |          | 99006002 9 | 900500201  |             |                 |                                       | ·               |               | $=$ $\top$     | 1 1       |             |                    | agment                |
|  | 48       | 99048008 9 | 904800801  |             | <del></del> -   |                                       | <del></del>     |               |                | 1 1       |             |                    | agment                |
| efarm                                    | 46       | 99046008 9 | 904800802  |             |                 |                                       | <del></del>     |               |                | 0.2 R     | *           |                    | agment                |
| nd<br>vd                                 | 122      | 99122002   |            |             |                 | ·· <u>···</u> ·                       | ····            |               |                | 3 16      |             |                    | CLED                  |
| 10                                       | 122      | 99122006   |            |             | <del></del>     |                                       | <del></del>     |               |                | 1         | <del></del> | <del>-  °</del>    | ==7'                  |
|  | 122      | 99122010 9 | 912201001  |             | <del>  </del> - |                                       | —- <del> </del> |               |                |           |             |                    |                       |
| dfill and Compostin                      | 179      | 99179004 9 |            |             | -               | ···                                   | <del> </del>    |               |                | 0.25 b    | -           | ——- <del>  _</del> |                       |
| dfill and Compostin                      | 179      | 99179006 9 | 917900601  |             | <del></del>     |                                       |                 |               |                | 0.33 lb   |             |                    | agment                |
| dfill and Compostin                      | 179      | 99179014 9 | 917901401  |             | <del></del>     |                                       |                 |               |                | 0.33 lb   |             |                    | agment                |
| ural Brush/Forest                        | 3        | 99003005 9 | 900300601  |             | <del></del>     |                                       |                 |               |                | 0.33 lb   |             |                    | agment                |
| mai Brush/Forest                         | 25       | 99025020 9 | 902502001  | <del></del> | <del></del>  -  |                                       |                 |               | <del>-</del> + | 3 lib     |             |                    | agment                |
|  |          |            |            |             |                 |                                       |                 | <del>-1</del> |                | 0.25 lb:  |             |                    | agment                |





| ECTORS NAME                |          |            |                            |  |   |  |          |                  |                |             | 5 15 14 TA |  |  |
|----------------------------|----------|------------|----------------------------|--|---|--|----------|------------------|----------------|-------------|------------|--|--|
| ECTORS MAINE               | CRID ID  | ANOMALY ID | OBJECT ID                  | EASTING  | NORTHING  | DESCRIPTION                                      | COMMENTS | DEPTH            | STINU          | WEIGHT      | UNITS      | EXPLUSIVE  | OBJ NAME   |
|                            |          | 99025024   |                            | Т  |   |  |          |                  | <del> </del>   | 0.25        | lbs        |  | Fragment   |
| atural Brush/Forest        | 25<br>25 | 99025027   |                            |  |   | <u> </u>   |          | <del>-   -</del> | <del></del>    | 0.1         | lbs        | [  | Fragment   |
| atural BrusiVForesi        |          |            | 9902400101                 | <u> </u>   |   | Frag. 5 ft. away                                 |          |                  | <del> </del> - | 0.5         | lbs        |  | Fragment   |
| atural Brush/Forest        | 24       | 99063005   |                            | <del>                                     </del> |   |  |          | <del>-</del>     | <del></del>    | 0.25        | lba        |  | Fragment   |
| inefam                     | 63       | 99063009   |                            |  |   |  |          |                  | +              | 0.25        |            | <u> </u>   | Fragment   |
| inefarm                    | 63       | 99063012   |                            |  |   |  |          | <del></del>      |                | 0.25        | _          |  | Fragment   |
| inefarm                    | 63       |            | 990630160                  |  | 1   |  |          |                  | <del> </del>   | 0,25        |            |  | Scrap  |
| inefam                     | 83       | 99063010   | 990630160                  | <del>; </del>                                    |   |  |          |                  | <del> </del>   | 0.25        |            |  | Fragment   |
| inefarm                    | 63       |            |                            | <del></del>                                      | <del>                                     </del>  | <u> </u>   |          |                  | +              | 0.25        |            |  | Fragment   |
| inefarm                    | 63       | 9905302    | 990630250                  | <del>; </del>                                    | <del>                                     </del>  |  |          |                  | <del>\</del>   |             | lbs        |  | Fragment   |
| inefarm                    | 63       | 9906302    | 990630260                  | <del>' </del>                                    | <del> </del>                                      |  |          | _                | +              | 0.25        |            |  | Fragment   |
| Pinefarm                   | 60       |            | 990600030                  |  | <del> </del>                                      |  |          |                  | +              |             | The.       |  | Fragment   |
| inetarm                    | 60       | 9906000    | 9 990600090                |  | <del>                                     </del>  |  |          |                  | +              |             | ibs        | <del>                                     </del> | Fragment   |
| inefarm                    | 60       | 9906001    | 4 990600140                | <u>' </u>  | +   |  |          |                  | +              |             | lbs        | -  | Fragment   |
| Pinefarm                   | 57       | 9905700    | 1 990570010                | <u>'</u>   | +   | <del> </del>                                     |          |                  | <del> </del>   |             | ibs        | <del></del>                                      | Fragment   |
| Pinefarm                   | 57       | 9905700    | 8 990570060                | -  | <del>-\                                    </del> | <del> </del>                                     |          |                  | <del> </del>   |             | 2 libs     | <del>                                     </del> | Fragment   |
| Pinefarm                   | 58       | 9905800    | 5 990580050                | <del>" </del>                                    | <del></del>                                       | <del> </del>                                     |          |                  | <del></del>    | <del></del> | 100        |  | <del>                                     </del> |
| Pinefarm                   | 59       |            | 3 990590030                | <u>" </u>  |   | <del></del>                                      |          |                  | <b>↓</b> —     | <del></del> | 3 libs     | <del></del> -                                    | Fragment   |
| Pinefarm                   | 59       | 9905901    | 1                          |  | <del>- </del>                                     | <del>                                     </del> |          |                  |                |             |            | <del></del> -                                    | Fragment   |
| Pinefarm                   | 59       | 9905901    | 7 990590170                | 21   | <del></del>                                       | <del></del>                                      |          |                  |                |             | 1 lbs      |  | Fragment   |
| Pinefarm                   | 68       | 9906600    | 3 990660030                |  |   |  |          |                  |                |             | 1 lbs      |  | Fragment   |
| Pinefarm                   | 66       | 9906600    |                            |  |   |  |          |                  |                |             | 5 lbs      |  | Fragment   |
| Natural Brush/Forest       | 85       | 9906500    |                            |  |   |  |          |                  | <u> </u>       |             | 5 lbs      |  | Fragment   |
| Natural Brush/Forest       |          | 9906500    | 2 99065002                 | 02   |   |  |          |                  |                |             | 5 lbs      | _  | Fragment   |
| Natural Brush/Forest       |          |            | 99065002                   | 03   |   |  |          |                  |                |             | 5 lbs      |  |  |
| Natural Brush/Forest       |          |            | 99068003                   | 01   |   |  |          |                  |                |             | 5 lbs      |  | Fragment<br>Fragment                             |
| Natural Brush/Forest       |          |            |                            | 02   |   | <del></del>                                      |          |                  |                |             | 5 lbs      |  |  |
| Natural Brush/Forest       |          |            | 07 99087007                | 01   |   |  |          |                  |                |             | 5 lbs      |  | Fragment   |
|                            |          |            |                            | 02   |   |  |          |                  |                |             | 5 lbs      |  | Fragment   |
| Natural Brush/Forest       |          |            |                            |  |   |  |          |                  |                | 0.2         | 25 (bs     |  | Fragment   |
| Natural Brush/Forest       |          |            | 04 99030004                | 01   |   |  |          |                  |                | 0.          | 25 lbs     |  | Fragment   |
| Natural Brust/Forest       |          |            | 08 99030008                | 101  |   |  |          |                  |                |             | Τ          |  | <del>_ </del>                                    |
| Natural Brush/Fores        |          |            |                            |  |   |  |          |                  |                | 0.:         | 25 lbs     | <u> </u>   | Fragment   |
| Natural Brush/Fores        |          |            |                            | i01  |   |  |          | <del></del>      | +-             |             |            |  |  |
| Natural Brush/Fores        |          | <u> </u>   |                            |  |   |  |          | <del></del>      |                | 0.          | 25 lbs     |  | Fragment   |
| Natural Brush/Fores        |          | •          | 22 99030022                | 201  |   |  |          | _ <del></del>    | -              | 0.          | 25 lbs     |  | Fragment   |
| Natural Brush/Fores        |          |            | 26 99030020                | 301  |   |  |          | <del> </del>     | $\dashv$       | _           | 1 105      |  | Fragment   |
| <b>Matural BrustyFores</b> |          |            | 08 99029000                | 901  |   |  |          | <del>  </del>    |                |             | 1 lbs      |  | Fragmen  |
| Natural Brush/Fores        |          |            | 9902901                    | 301  |   |  |          |                  | <del></del>    |             | 1 lbs      |  | Fragmen  |
| Natural Brush/Fores        |          |            |                            |  |   |  |          |                  |                |             | 1 108      |  | Fragmen  |
| Natural Brust/Fores        |          | -          | 24 9902902                 |  |   |  |          |                  |                |             | 0.5 lips   |  | Fragmen  |
| Natural Brush/Fores        |          |            |                            |  |   |  |          | +                | <del></del>    |             | .25 lbs    | _  | Fragmen  |
| Natural Brush/Fores        |          | 990320     |                            |  |   |  |          |                  | _              |             | .15 lbs    |  | Fragmen  |
| Natural Brush/Fores        |          |            | 9903200                    | 401  | +-  |  |          |                  |                |             | .15 lbs    |  | Fragmen  |
| Natural Brush/Fores        | **       |            | 008 9901400                | <del>0</del> 001                                 |   | <del></del>                                      |          |                  |                |             | ,15 lbs    |  | Fragmer  |
| Natural Brush/Fores        | st       | 14 99014   | 008 9901400                | 802  | _   | <del></del>                                      |          |                  |                |             |            | _+   | Fragmer  |
| Natural Brush/Fore         |          |            | 013 9901401                |  |   | <del></del>                                      |          |                  |                |             | 0.3 lbs    |  | Fragmen  |
| Natural Brush/Fore         |          | 28 99028   |                            |  | $-\!\!\!\!-\!\!\!\!-$                             |  |          |                  |                |             | .25 lbs    |  | Fragmer  |
| Natural Brush/Fore         |          | 12 99013   | 001 9901300<br>007 9901300 |  |   |  |          |                  |                |             | 15 lbs     |  | li ieditici                                      |

| SECTORS NAME         | GRID ID | ANOMALY ID           | OBJECT (D  | EASTING  | NORTHING  | DESCRIPTION                                      | COMMENTS        | DEPTH  | DEPTH       | WEIGHE   | WEIGHT |                 |              |
|----------------------|---------|----------------------|------------|--|---|--|-----------------|--|-------------|----------|--------|-----------------|--------------|
| Natural Brush/Forest | 13      | 99013007             | 9901300702 | <u> </u>   | <del> </del>                                      | <del></del>                                      |                 | DEFIN  | UNITS       | WEIGHT   | UNITS  | EXPLOSIVE       | OBJ NAME     |
| Natural Brush/Forest | 13      |                      |            |  |   | <del> </del>                                     | <u> </u>        |  |             | 0.15     | lbs    |                 | Fragment     |
| Vaturai Brush/Forest | 13      |                      | 9901300704 |  | <del>                                      </del> | <del> </del>                                     |                 |  |             | 0.15     | lbs    |                 | Fragment     |
| Vatural Brush/Forest | 13      |                      | 9901300705 |  | <del>                                     </del>  | <del> </del>                                     |                 |  |             | 0.15     | lbs    |                 | Fragment     |
| latural Brush/Forest | 13      |                      | 9901300706 |  | -   | <del></del>                                      |                 |  |             | 0.15     | lbs    |                 | Fragment     |
| latural Brush/Forest | 13      |                      | 9901300707 |  |   | <del> </del>                                     | <del>_</del>    |  | <u> </u>    | 0.15     | lbs    |                 | Fragment     |
| tetural Brush/Forest | 13      | 99013007             | 9901300708 | <del> </del>                                     | <del></del>                                       | <del>                                     </del> |                 |  |             | 0.15     | lbs    |                 | Fragment     |
| latural Brush/Forest | 13      |                      |            |  |   | <del>                                     </del> | <del></del> _   |  | L           | 0.15     | ibs    |                 | Fragment     |
| latural Brush/Forest | 13      |                      | 9901301402 |  | <del></del> -                                     | Barbed wire                                      |                 |  |             | 0.15     | lbs    |                 | Fragment     |
| latural Brush/Forest | 16      |                      | 9901600401 |  | <del></del>                                       | DONUGU WIFE                                      | ·               |  | <u> </u>    | 0.15     | lbs    |                 | Scrap        |
| latural Brush/Forest | 16      | 99016011             | 9901601101 | <del> </del>                                     | <del></del>                                       | <del></del>                                      |                 |  |             |          | lbs    |                 | Fragment     |
| latural Brush/Forest | 15      |                      | 9901500601 | <del>                                     </del> |   |  |                 |  |             | 2        | ibs    |                 | Fragment     |
| latural Brush/Forest | 15      | 99016007             | 9901500701 | <del>                                     </del> |   | <del></del>                                      |                 |  |             | <u> </u> | lbs    |                 | Fragment     |
| latural Brush/Forest | 71      | 99071001             | 9907100101 |  |   |  |                 |  |             | 4        | lbs    |                 | Fragment     |
| atural BrustyForest  | 8       |                      | 9900800201 |  |   | <del> </del>                                     | <del>_</del>    |  |             | 0.5      | lbs    |                 | Fragment     |
| latural Brush/Forest | 6,      |                      | 9900800701 | <del>                                     </del> |   | <u> </u>   |                 |  |             | 2        | lbs    |                 | Fragment     |
| atural BrustyForest  | 7       |                      | 9900700201 | <del>                                     </del> |   | <u> </u>   |                 |  |             | 2        | lbs    |                 | Fragment     |
| atural Brush/Forest  | 5       |                      | 9900500301 |  |   | -· <u></u> <u>-</u>                              |                 |  |             |          | lbs    |                 | Fragment     |
| inefarm              | 81      |                      | 9908100101 |  | <del></del> -                                     | Wire/lin can                                     |                 |  |             | . 2      | bs     |                 | Fragment     |
| inefarm              | 81      |                      | 9908100801 | <del></del>                                      |   |  | <u></u> <u></u> |  |             | 0.25     | bs     |                 | Screp        |
| inefarm              | 112     |                      | 9911201801 |  |   | Plow blade                                       |                 |  |             | 2.5      | bs     |                 | Scrap        |
| nefarm               | 111     |                      | 9911100401 |  |   |  |                 |  |             | 0.5      | bs     |                 | Fragment     |
| nefarm               | 111     |                      | 9911100901 | -  |   |  |                 |  |             | 2        | bs     |                 | Fragment     |
| inefarm              | 111     |                      | 9911101301 |  |   |  |                 |  |             | 2        | bs     |                 | Fragment     |
| nefam                | 110     | 99110005             | 0011101001 |  | <del></del>                                       |  |                 |  |             | 5        | bs     |                 | Fragment     |
| nefarm               | 110     |                      | 9911000901 |  |   |  |                 |  |             |          |        |                 | * 1030100110 |
| bnd                  | 174     | 99174001             | 9917400101 | 17838341 0                                       | 4444000   | 100  |                 |  |             | 0.75     | bs.    |                 | Fragment     |
| ond                  | 137     | 90137001             | 9913700101 | 1703034 6  |   | 105 mm BE/Inert                                  |                 | 24   | in.         | 25       |        |                 | Ordnance     |
| ond                  | 196     | 99198001             | 9919600101 | 1793408 0  | 11110/9:0"  | 105 mm BE/Inert                                  |                 | 24   | in.         | 25       |        |                 | Ordnance     |
| and box              | 194     |                      | 9919400301 |  |   |  |                 |  | -           | 0.5      |        |                 | Fragment     |
| tural Brush/Forest   | 199     |                      | 9919900201 |  |   |  |                 | T  |             | 0.25     |        |                 | Fragment     |
| nefarm               | 205     |                      | 9920500101 |  |   |  |                 |  |             | 1.4      | -      |                 | Scrap        |
| nefarm               | 205     |                      | 9920500401 |  |   |  |                 |  |             | 16.25    |        |                 | Fragment     |
| nefarm               | 205     |                      | 9920501101 | <del></del>                                      | <del></del>                                       |  |                 |  |             |          | bs b   |                 | Fragment     |
| nefarm               | 205     |                      | 9920501701 | <del></del>                                      | <del></del>                                       |  |                 |  |             | 0.25     |        |                 | Fragment     |
| nefarm               | 206     |                      | 9920600501 | <del></del>                                      | <del></del>                                       | <u> </u>   |                 | _{_  |             | 0.25     |        |                 | ragment      |
| nefarm               | 206     |                      | 9920601201 |  |   |  |                 |  |             | 1.25     |        | <del></del>     | ragment      |
| nefarm               | 207     |                      | 9920700501 |  | <del></del>                                       |  |                 | 1  |             | 1.25     |        |                 | Fragment     |
| nefarm               | 207     |                      | 9920700801 |  |   |  |                 | <del>                                     </del> |             | 0.25     |        |                 | ragment      |
| nefarm               | 207     |                      | 9920701201 |  |   |  |                 | <del>                                     </del> |             | 0.25     |        |                 |              |
| efarm                | 208     |                      | 9920800301 |  |   |  |                 | 7  |             | 0.25     |        |                 | ragment      |
| efarm                | 206     | 99208007             | 9920900301 |  |   |  |                 | <del></del>                                      |             | 0.25     |        |                 | ragment      |
| eferm                | 208     |                      |            |  |   |  |                 | <del>1 - 1</del>                                 |             | 0.75 0   | _      |                 | ragment      |
| efarm                | 183     | 99208010<br>99153002 |            |  |   |  |                 | <del>                                     </del> | <del></del> | 1 8      |        | <del></del>     | ragment      |
| efarm                | 183     |                      | 9918300201 |  |   |  |                 | <del>-   -    </del>                             | <del></del> | 0.75 1   |        | <del>  </del> ; | ragment      |
| clarm                |         | 99183007             |            |  |   | ······   |                 | <del>    -   +</del>                             |             | 0.75     |        |                 | ragment      |
| efarm                | 183     | 99183007             |            |  |   |  |                 | ╅═   |             | 0.25 k   |        |                 | ragment      |
| efarm                | 183     | 99183010             |            |  | I   |  |                 | <del>  </del>                                    |             | 0,25 R   | 1      |                 | scrap        |
| orailli              | 183     | 99183014             | VY18301401 | <b>F</b>   |   |  | <del></del>     | <del></del>                                      |             | 0.25 it  | 75     | }               | ragment      |



|                      |                   |          |            |   |  |                       |               |  | DEPTH       |        | WEIGHT  |              |               |
|----------------------|-------------------|----------|------------|---|--|-----------------------|---------------|--|-------------|--------|---------|--------------|---------------|
| <del>_</del> ,       |                   |          | OR IECT ID | EASTING                                       | NORTHING   | DESCRIPTION           | COMMENTS      | DEPTH  | UNITS       | WEIGHT | צדואט.  | EXPLOSIVE    |               |
| CTORS NAME           | GRID ID A         |          |            |   |  | <del></del>           |               |  |             | 0.75   |         | <u> </u>     | Fragment      |
| nefarm               | 163               | 99183018 | 991830160  | <del>"1</del>                                 |  |                       |               |  |             | 1.5    |         | <u> </u>     | Fragment      |
| nefarm               | 184               | 99184001 | 991840010  | <u>11 —                                  </u> |  | The                   |               |  |             | 4      | lbs     | <u>.</u>     | Scrap         |
| nefam                | 181               | 89151009 | 991610090  | <u> </u>                                      |  | Tin                   |               |  |             |        |         | <u> </u>     | Scrap         |
| nefarm               | 181               | 99181015 | 991810150  | 1   |  | Tin/Bed Springs/Nails |               |  |             | 0.25   |         |              | Fragment      |
| nelarm               | 181               | 99181020 | 991810200  | 1   |  |                       |               |  |             |        | lbs .   | <b></b>      | Scrap         |
| nefarm               | 181               | 99181020 | 991810200  | 2   |  |                       |               |  |             | 0.25   |         | <del> </del> | Fragment      |
| nefarm               | 181               | 99161024 | 991810240  | 1   |  | <del> </del>          |               |  |             |        | ibs     | 1            | Scrap         |
| nefarm               | 181               | 99181024 | 991810240  | 2   |  |                       |               |  |             |        | ibs     |              | Fragment      |
| ond                  | 142               | 99142002 | 991420020  | 1   |  | <del> </del>          |               |  |             | 1      | lbs     |              | Fragment      |
| ond                  | 142               | 99142008 | 991420060  | 1   |  |                       |               |  |             | 0.5    | lbs     |              | Fragment      |
| ond                  | 128               | 99128003 | 991260030  | 1   |  |                       |               |  |             |        | ibs     | <u> </u>     | Scrap         |
| ond                  | 128               | 99126007 | 991280070  | 1   |  | <del> </del>          | <del></del>   |  |             | 0.8    | lbs     |              | Scrap         |
| ond                  | 128               | 99128011 | 991280110  | 11  | Ļ  | Dock Cook             |               |  |             |        |         |              | Magnetic Rock |
| ond                  | 141               | 99141003 | 991410030  | 01  |  | Magnetic Rock         | <del></del>   |  |             |        | ibs     |              | Fragment      |
| ond                  | 141               | 99141007 | 991410070  | )1]   | <u> </u>   | <del> </del>          | <del></del>   |  |             |        | 5 lbs   |              | Fragment      |
| ond                  | 141               | 99141011 | 991410110  | )1  |  | ļ                     |               |  |             |        | ibs     |              | Fragment      |
| ond                  | 136               | 9913600  | 991360040  | <u> </u>                                      |  | <del></del>           |               |  |             |        | 5 ibs   |              | Fragment      |
| E/CA Grid 87         | 105               | 9910500  | 991050030  | 21]   | <u> </u>   | <del> </del>          | <del></del> - |  |             |        | 5 lbs   |              | Fragment      |
| E/CA Grid 87         | 105               |          | 991050088  |   |  | <del></del>           | <del></del>   |  |             |        | 5 lbs   |              | Fragment      |
| E/CA Grid 87         | 105               |          | 99105010   |   | <u> </u>   | <del> </del>          |               |  |             |        | 5 lbs   |              | Fragment      |
| E/CA Grid 87         | 105               | 9910501  | 4 99105014 | 01)   | <u> </u>   | <b></b>               | <del></del>   |  |             |        | 5 lbs   |              | Fragment      |
| E/CA Grid 87         | 108               | 9910800  | 2 99108002 | 01  | <del> </del>                                     |                       |               |  |             | 0.2    | 5 lbs   |              | Fragment      |
| E/CA Grid 87         | 108               | 9910800  | 8 99108008 | 01  | ļ  | <del></del>           |               |  |             |        |         |              | <del></del>   |
| E/CA Grid 87         | 107               | 9910700  | 4          |   | <u> </u>   |                       | <del></del>   |  |             | 0.2    | 5 lbs   |              | Fragment      |
| E/CA Grid 87         | 107               | 9910700  | 8 99107006 | 01  |  |                       |               |  |             | 0      | 1 lbs   |              | Fragment      |
| E/CA Grid 87         | 107               | 9910701  | 3 99107013 | 01  |  |                       |               |  |             |        |         |              | _\            |
| Natural Brush/Forest | 256               | 9925800  | 1          |   | ↓  |                       |               |  |             |        |         |              | <del></del>   |
| Pinefarm             | 54                | 9905400  | 4          |   | <u> </u>   |                       |               |  |             | 0.3    | 25 1bs  |              | Fragment      |
| Inefarm              | 55                | 9905500  | 1 99055001 | 01  |  |                       |               | <del></del>                                      |             | 0.:    | 25 Nos  |              | Fragment      |
| Pinefarm             | 55                | 9905500  | 99055005   | 01  |  |                       |               |  | <b></b>     |        | T       |              |               |
| Pinetarm             | 55                | 9905500  | 9          |   |  |                       | <del></del>   |  |             | 0.     | 25 lbs  |              | Fragment      |
| Pinefarm             | 55                | 9905501  | 2 99055012 | 01  | <u> </u>   |                       |               |  |             | 0.     | 75 lbs  |              | Fragment      |
| Pinefarm             | 56                |          | 1 99056011 | Ō1  |  |                       |               |  |             |        |         |              | _             |
| Pinefarm             | 56                | 9905601  | 5          |   |  |                       |               |  | _           | 0.     | 75 libs |              | Fragment      |
| Pinefam              | 56                |          | 8 99056018 |   |  |                       |               | <del>-                                    </del> | <del></del> | 0.     | 25 lbs  |              | Fragment      |
| Pinefarm             | 1 - <del>58</del> |          |            |   |  |                       |               | <del></del>                                      |             |        | 25 lbs  |              | Fragment      |
| Pinefarm             | <del>  30</del>   |          |            | 301   |  |                       |               |  | +           |        | $\top$  |              |               |
| Pinefarm             | 49                | 1        |            |   |  |                       |               | <del> </del>                                     | +           |        | 1.5 lbs |              | Fragment      |
|                      | 53                | 990530   | 01 9905300 |   |  |                       |               |  | $\neg$      |        | 0.5 lbs |              | Fragment      |
| Pinefarm             | <del>- 53</del>   |          | 9905300    |   |  |                       |               | <del></del> -                                    | <del></del> |        | 1 lbs   |              | Fragment      |
| Pinefarm             | 53                |          | 9905300    | 901   |  |                       |               | <del></del>                                      | 1-          |        | 25 lbs  |              | Fragment      |
| Pinefarm             | 53                |          | 12 9905301 | 201   |  |                       |               | +_   | +           |        | 25 lbs  |              | Screp         |
| Pinefarm             | 53                | 1        | 16 9905301 | 601   |  |                       |               |  | +-          |        | 0.5 lbs |              | Fragment      |
| Pinefarm             | 51                |          | 04 9905100 | 4011  |  |                       |               | <del></del>                                      | +-          |        | .25 lbs | _            | Fragment      |
| Pinefarm             | 52                | 1        | 02 9905200 | 201   | <del>                                     </del> |                       |               |  |             |        | .25 lbs |              | Fragment      |
| Pinefarm             |                   |          |            |   |  |                       |               |  |             |        | 0.5 lbs |              | Fragment      |
| Natural Brush/Fores  |                   |          |            |   | <u> </u>   |                       |               |  | <del></del> |        | 2,7120  |              |               |
| Natural Brush/Fores  | 2                 | 3 991230 |            |   |  |                       | i             | i  | 1           |        |         |              |               |

| SECTORS NAME          | GRID ID | ANOMALY ID | OBJECT ID    | EASTING  | NORTHING   | DESCRIPTION      | COMMENTS    |                | DEPTH          |  | WEIGHT      |   |                |
|-----------------------|---------|------------|--------------|--|--|------------------|-------------|----------------|----------------|--|-------------|---|----------------|
| Pond                  | 123     |            |              |  |  |                  | COMMENIS    | DEPTH          | UNITS          | WEIGHT   | UNITS       | EXPLOSIVE   | OBJ NAME       |
| ond                   | 123     |            |              |  | ļ  |                  |             |                |                | 0.25   | lbs         | T   | Fragment       |
| inefarm               | 82      |            |              | <del> </del>                                     | <del>                                     </del> |                  |             |                |                | <del>                                     </del> |             | <del>                                      </del> | 1 Partitions   |
| inefarm               | 62      |            | 9908200801   |  | <del> </del> -                                   |                  |             |                |                | 0.25   | lbs         | <del> </del>                                      | Fragment       |
| inefarm               | 82      |            | 9906200601   | <del> </del>                                     | <del> </del> -                                   |                  |             |                |                | 0.25   |             | <del> </del>                                      |                |
| inefarm               | 82      |            | <del> </del> | <del> </del> -                                   | <u> </u>   |                  |             |                |                | <del>                                     </del> |             | <del>                                     </del>  | Fragment       |
| Pinefarm              | 82      |            |              | <u> </u>   | <u> </u>   |                  |             |                |                |  | <del></del> | <del>                                     </del>  |                |
| ineferm               | 84      |            | 9908201901   | <u> </u>   | ļ <u></u>  | Banding Material |             |                |                | <del>                                     </del> |             | <del> </del>                                      | Č              |
| inetarm               |         |            | 9906401101   |  |  |                  |             |                |                | 0.5  | Bra.        |   | Scrap          |
| inefarm               | 84      |            | 9908401401   | <b> </b>   | L  |                  |             | <del>-  </del> |                | 0.25   |             | <del> </del>                                      | Fragment       |
| ineform               | 84      | 99084018   |              | <b> </b>   | <u> </u>   |                  | ·           | <del></del> -  |                | 0.20   |             | <del> </del>                                      | Fragment       |
| ond                   | 84      | 99084022   |              | <b></b>  |  |                  |             |                |                | <del>                                     </del> |             | <del></del>                                       |                |
| ond                   | 168     |            | 9916800401   |  |  | Barbed wire      |             |                |                | 0.25   | -           | <del> </del> -                                    |                |
| ond                   | 158     |            | 9916800701   |  |  |                  | <del></del> |                |                | 0.25   |             |   | Screp          |
| ond                   | 166     | 99168004   | 9916600401   | 1762895 3  | 1111076  | 105 mm BE/Inert  |             | 24             | in             |  | lbs.        |   | Scrap<br>Спар  |
| ond                   | 170     | 99170003   | <u> </u>     |  |  |                  |             | <del></del>    | ns             | <del>  23</del>                                  | 1115        | <del>  </del>                                     | Ordnance       |
| ond                   | 130     | 99130001   | 9913000101   |  |  |                  |             |                | <u> </u>       |  | lhe .       | <del>                                     </del>  |                |
|                       | 131     |            | 9913100201   | 1763196' 5                                       | 1111156 5"                                       | 105 mm HE/Live   | <del></del> | -              | in.            |  | ibs         |   | Scrap          |
| atural Brush/Forest   | 298     |            | 9929800201   |  |  |                  | <del></del> | <del> </del>   | <del>#1.</del> | 25   |             |   | Ordnance       |
| atural Brush/Forest   | 263     |            | 9926300101   |  |  |                  | <del></del> |                |                | 1.5  |             |   | Scrap          |
| atural Brush/Forest   | 280     |            | 9928000601   |  |  | Magnetic Rock    |             | <del></del>    |                | 0.5  | 106         |   | Scrap          |
| andfill and Compostin | 180     |            | 9918002301   |  |  |                  |             | <del></del>    |                |  |             |   | Magnetic Re    |
| atural Brush/Forest   | 5       |            | 9900500601   | 7  |  |                  |             |                |                |  | ibs         |   | Fragment       |
| inelarm               | 61      |            | 9906100201   |  | ,  |                  |             | <del></del>    |                | 1.5  |             |   | Fragment       |
| Inefarm               | 64      |            | 9906400201   |  |  |                  |             | -              |                | 0.5  |             |   | Fragment       |
| inefarm               | 64      |            | 9906400701   |  |  |                  |             | <del></del>    |                | 0.25   |             |   | Fragment       |
| inefarm               | 31      |            | 9903100201   |  |  |                  |             | <del></del>    |                | 0.5  |             |   | Fragment       |
| inefarm               | 31      |            | 9903101001   |  |  |                  |             | <del></del>    |                | 0.5  |             |   | Fragment       |
| nefarm                | 85      | 99085006   | 9906500601   |  |  | <del></del> -    | <del></del> | _              |                | 0.5  |             |   | Fragment       |
| nefarm                | 85      | 99085010   | 9908501001   |  |  | ·                | <del></del> | -              |                | 0.25   |             |   | Fragment       |
| nefarm                | 85      | 99085016   | 9908501801   |  |  | ·                | <del></del> |                |                | 0.25   |             |   | Fragment       |
| nefam                 | 88      | 99088003   | 9908800301   |  | · · · · · ·                                      | ··               |             | <del></del>    |                | 0.25   |             |   | Fragment       |
| nefarm                |         | 99066001   | 9908600101   |  | ··   | · — — —          |             | <del></del>    |                | 0.25   |             |   | Fragment       |
| nefarm                | 86      | 99086007   | 9908600701   | <del>-                                    </del> | <del></del>                                      |                  | <del></del> | ——↓            |                | 0.25   |             |   | ragment        |
| nefarm                | 85      | 99085001   | 9908500101   |  |  |                  | <del></del> | <del></del>    |                | 0.25   |             |   | regment        |
| atural Brush/Forest   | 94      | 99094010   | 9909401001   |  |  | ···              | ·           | _              |                | 0.25   |             |   | ragment        |
| etural Brush/Forest   | 93      |            | 9909300501   |  | <del></del> }                                    | ·                | <del></del> |                |                | 0.25   |             |   | ragment        |
| stural Brush/Forest   | 95      | 99095001   |              |  |  |                  |             |                |                | 0.25   | bs          |   | ragment        |
| ntural Brush/Forest   | 94      | 99094007   | 9909400701   |  | <del></del> +                                    |                  |             | ↓              |                |  |             |   |                |
| ntural Brush/Forest   | 11      | 99011007   |              | <del></del> +                                    | <del></del>                                      |                  | <del></del> | <u></u>        |                | 0.5  | bs          |   | Scrap          |
| tural Brust/Forest    | 11      | 99011011   | <del></del>  |  | <del></del> -+                                   |                  |             |                |                |  |             |   |                |
| tural Brush/Forest    | 89      | 99089002   | 9906900201   | +  |  | ····             | · · ·       | I              |                |  |             |   |                |
| tural Brush/Forest    | - 0     |            | 9900900101   |  |  |                  |             |                |                | 0.5  | bs          |   | ragment        |
| tural Brush/Forest    | 90      |            | 9909000401   | <del></del>                                      | <del></del>                                      |                  |             | T              |                | 0.5  | bs I        |   | regment        |
| tural Brush/Forest    | 91      |            | 9909100101   | <del>+</del>                                     |  |                  |             | !              |                | 0.5  | bs .        |   | ragment        |
| tural Brush/Forest    | 91      |            | 9909100601   |  | <del></del>                                      |                  |             |                |                | 0.51   |             |   | ragment        |
| tural Brush/Forest    | 92      | 99092001   |              |  |  | uze              |             |                |                | 0.5  | bs          |   | ragment        |
| tural BrustyForest    | 94      |            | 9909400501   |  |  |                  |             |                |                |  | <del></del> | <del></del>                                       | · e-griticali( |
| tural Brush/Forest    | 11      |            | 9901100201   | <del></del> -                                    |  |                  |             | 1              |                | 0.25   | bs.         | <del> </del>                                      | ragment        |
|                       |         | 88011005   | 2001100201   |  |  |                  |             | <del></del>    |                | 0.25   |             |   | ragment        |



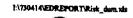
|  |         |             |             |   |  | · <del></del>                                    |                |       | DEPTH  |          | WEIGHT   | · -· ·       |             |
|--|---------|-------------|-------------|---|--|--|----------------|-------|--|----------|----------|--------------|-------------|
| SECTORS NAME                                     | GRID ID | ANOMALY ID  | OBJECT ID   | EASTING   | NORTHING   | DESCRIPTION                                      | COMMENTS       | DEPTH | UNITS  | WEIGHT   | UNITS    | EXPLOSIVE    |             |
|  | 47      | 99047004    | 9904700401  | T -   | <del> </del>                                       |  |                | Ī     |  | 0.25     |          |              | Fragment    |
| Pinefarm   | 47      |             | 9904701001  |   |  |  |                |       |  | 0.25     |          |              | Fragment    |
| Pinefarm   | 47      |             | 9904701801  |   |  |  |                |       |  | 0.25     |          |              | Fragment    |
| Pinefarm   | 47      |             | 9904702301  |   | <del></del>  |  |                |       |  | 0.75     |          | ļ. <u> </u>  | Fragment    |
| Pinefarm   | 11      |             | 9901100101  | <del>                                     </del>    | <del>                                     </del>   |  |                |       |  | 0.5      | lbs      | <u> </u>     | Fragment    |
| Natural Brush/Forest                             | 260     |             | 5501100101  | <del>}</del>  |  |  |                |       |  |          |          | <del> </del> |             |
| Natural Brush/Forest                             | 257     |             |             |   |  |  |                |       | <u> </u>   | <u> </u> |          | <u> </u>     |             |
| Natural Brush/Forest                             | 258     |             |             |   | <del>                                     </del>   |  |                |       |  | <u> </u> |          | <u> </u>     |             |
| Natural Brush/Forest                             | 258     |             | 9925800901  | <del>                                     </del>    | <del>                                       </del> |  |                |       |  | 0.25     | lbs      |              | Fragment    |
| Natural Brush/Forest                             | 259     |             |             |   | <del>                                     </del>   | ··   |                |       |  | <u> </u> |          |              |             |
| Natural Brush/Forest                             | 260     |             |             | <del> </del>  | <del></del> -                                      |  |                |       | 1  |          |          | <b>.</b>     |             |
| Natural Brush/Forest                             | 235     |             | 9923500501  |   | <del> </del>                                       |  |                |       |  | 0.25     |          | <u> </u>     | Fragment    |
| Natural Brush/Forest                             | 234     |             |             | <del> </del>  | <del> </del>                                       | · · · · · · · · · · · · · · · · · · ·            |                |       |  | 0.5      |          |              | Fragment    |
| Natural Brush/Forest                             | 234     |             |             | 1   | <del>                                     </del>   | ·  |                |       | ļ  | 0.25     | fbs      | <b>.</b>     | Fragment    |
| Natural Brush/Forest                             | 234     |             |             | <del> </del>  | <del> </del>                                       |  |                |       | <u> </u>   |          |          | 1            | <u> </u>    |
| Natural Brush/Forest<br>Natural Brush/Forest     | 234     |             | 9923401601  | <del> </del>  | <del>                                     </del>   |  |                |       |  | 0.25     |          | <b>_</b>     | Fragment    |
| Natural Brush/Forest                             | 233     |             |             |   | +  |  |                |       | <u> </u>   | 0.25     | 1bs      | <del> </del> | Fragment    |
| Natural Brush/Forest                             | 233     |             |             | <del>                                     </del>    |  |  |                |       | <u> </u>   |          |          |              | <b></b>     |
|  | 280     |             |             | ╆┈┈   |  |  |                |       |  |          |          |              | <u></u>     |
| Natural Brush/Forest                             | 234     |             | 992350010   | <del>: </del>                                       | 1  | † · · · · · · · · · · · · · · · · · · ·          |                |       | <u> </u>   | 0.25     | lbs      |              | Fragment    |
| Natural Brush/Forest                             | 241     |             |             | <del>`</del>  | <del></del>  |  |                |       | <u> </u>   | İ        |          |              | <u> </u>    |
| Natural Brush/Forest                             | 230     |             |             | <del>!                                      </del>  | <del>                                     </del>   |  |                |       |  |          |          |              | <u> </u>    |
| Natural Brush/Forest                             |         |             | 992350070   | <del> </del>  | <del>                                     </del>   |  |                |       | <u> </u>   | 0.25     |          |              | Fragment    |
| Natural BrustyForest                             | 230     |             | 992360130   |   | <del>                                     </del>   |  |                | Ť     | 1  |          | lbs      |              | Fragment    |
| Natural Brush/Forest                             |         |             |             |   | <del> </del> -                                     | <u> </u>   |                |       | 1  |          | libs     |              | Fragment    |
| Landfill and Composti                            |         |             | 990780030   |   | <del>                                     </del>   |  |                |       | <u> </u>   |          | i lbs    |              | Fragment    |
| Landfill and Compostic<br>Landfill and Compostic |         | 9907800     | 990780070   | <del>il</del>                                       | <del>                                     </del>   |  |                | . —   |  |          | lbs      |              | Fragment    |
|  | 21:     |             | 992120010   |   | <del></del>  |  |                |       | 1  |          | lbs      |              | Fragment    |
| Natural Brush/Forest<br>Natural Brush/Forest     | 21:     |             | 7 992120070 |   |  |  |                |       |  |          | lbs .    |              | Fragment    |
|  | 21      |             | 4 992120140 | <del>il</del>                                       | <del> </del>                                       |  |                |       |  |          | ibs      |              | Fragment    |
| Natural Brush/Forest<br>Natural Brush/Forest     | 24      | 0024500     | 1 992450010 | <del>'                                       </del> | 1  |  |                |       |  |          | ibs      |              | Fragment    |
|  | 24      |             | 8 992450080 |   | <del>-}</del>                                      |  |                |       | <u> </u>   |          | 5 fbs    |              | Fragment    |
| Natural Brush/Forest                             |         |             | 4 990800040 |   | <del></del>  |  |                |       |  |          | 5 lbs    |              | Fragment    |
| Landfill and Composti                            |         |             | 5 991350150 |   | +  |  |                |       |  |          | 5 lbs    |              | Scrap       |
| Pond   | 13      | 4 0013400   | 5 991340050 | 1   | <del>                                     </del>   | <del>                                     </del> |                |       |  |          | 5 lbs    |              | Scrap       |
| Pond   |         | 3 0013300   | 1 991330010 | <del>il —</del>                                     | <del> </del>                                       |  |                |       |  | 0.       | 5 lbs    |              | Fragment    |
| Pond   | 13      |             |             | <del>'                                     </del>   |  |  |                |       |  |          |          |              | <u> </u>    |
| Pond   |         |             | 1 991330110 | 1 1763464   | 1111426' 2"  | 105 mm BE/Inert                                  |                | 2     | 4 in.  |          | 5 lbs    |              | Ordnance    |
| Pond   | 13      |             |             | 11100-04  | 1  |  |                |       |  |          | <u> </u> |              | <del></del> |
| Pond   | 13      | <del></del> |             | <del></del>   | +  | <del> </del>                                     |                |       |  |          | 5 libs   |              | Fragment    |
| Landfitt and Composti                            |         |             |             |   | <del>                                     </del>   | <del> </del>                                     | <u> </u>       |       |  | 0.       | 5 Mbs    |              | Fragment    |
| Landfill and Composti                            |         |             |             | <del>"}</del>                                       | +  | <del>  -</del>                                   |                |       |  |          |          |              |             |
| Pond   | 13      |             |             | <del>d -</del>                                      | <del>-  </del>                                     | <del>-</del>                                     |                |       |  | 0.2      | 5 lbs    |              | Fragment    |
| Pond   | 15      |             |             |   | <del></del>  | Fuze body  |                |       |  | 0        | 5 lbs    |              | Fragment    |
| Pond   | 15      |             |             |   | +  |  | <del>-  </del> |       | 1  | 0.2      | 5 lbs    |              | Fragment    |
| Pond   | 15      |             | 7 991500170 |   | <del>                                     </del>   | <del> </del>                                     |                |       | $\top$   | 0        | 5 lbs    |              | Fragment    |
| Pond   | 15      |             | 991510020   |   | <del>- </del>                                      | <del></del>                                      |                |       |  | 0        | .5 lbs   |              | Fragment    |
| Pond   | 15      | 9915100     |             |   | <del></del> -                                      | <del> </del>                                     |                |       | <del>                                     </del> | - 0      | .5 lbs   |              | Fragment    |
| Pond   | 18      | 9915101     | 3 991510130 | <u> </u>  |  | <u> </u>   |                |       |  | 1        |          |              |             |

| SECTORS NAME         | CONT. IN | AMONA: V P | 00 E0T +     | FARTNIA     | MARKET        |                                       |                                       |                    | DEPTH         |                | WEIGHT |  |                      |
|----------------------|----------|------------|--------------|-------------|---------------|---------------------------------------|---------------------------------------|--------------------|---------------|----------------|--------|--|----------------------|
|                      |          | ANOMALY ID |              |             | NORTHING      | DESCRIPTION                           | COMMENTS                              | DEPTH              | UNITS         | WEIGHT         | UNITS  | EXPLOSIVE  | OBJ NAME             |
| ond                  | 151      |            |              |             |               |                                       |                                       |                    | Ι —           | 0.5            | lbe.   | T .  | Fragment             |
| ond one              | 135      |            | 9913500401   | <u></u>     |               |                                       |                                       |                    |               | 0.5            |        |  | Fragment             |
| ond                  | 150      |            | 9915000301   |             |               | Fuze body                             |                                       |                    |               | 0.5            |        |  | Fragment             |
| latural Brush/Forest | 216      |            | 9921501701   |             |               | _                                     |                                       | _                  | t —           | 0.25           |        | -  | Fragment             |
| latural Brush/Forest | 216      |            | 9921602201   |             | - "           | ·                                     |                                       | <u> </u>           | t —           | 0.25           | -      |  | Fragment             |
| ond                  | 152      |            | 9915200101   | Li          |               |                                       |                                       | -                  |               | 0.25           |        | <del> </del>                                     |                      |
| ond                  | 152      |            | 9915200601   |             |               |                                       |                                       | <u> </u>           |               | 0.25           |        | <del>                                     </del> | Fragment             |
| ond                  | 152      |            |              | L           |               |                                       |                                       |                    |               | 0.25           |        |  | Fragment             |
| ond                  | 152      |            | 9915201901   |             |               |                                       |                                       |                    | <del></del>   | 0.25           |        |  | Fragment             |
| ond                  | 149      |            | 9914900201   |             |               |                                       |                                       | <del>-  </del>     |               | 0.23           |        | <b>-</b>   | Fragment             |
| ond                  | 149      |            | 9914900901   |             |               |                                       |                                       | -+                 |               | 0.25           |        | <u> </u>   | Fragment             |
| atural Brush/Forest  | 216      | 99216012   | 9921601201   |             | -             |                                       |                                       |                    |               | 0.25           |        |  | Fragment             |
| alurai BrusivForest  | 214      | 99214010   | 9921401001   |             |               |                                       | <del></del>                           | _                  | <del></del> - | 0.25           |        | <del>                                     </del> | Fragment             |
| atural Brush/Forest  | 214      | 99214014   |              |             |               |                                       |                                       |                    |               | U.23           |        | <b> </b>   | Fragment             |
| atural Brush/Forest  | 214      | 99214019   |              |             | •             |                                       | <del> </del>                          | <del></del>        | <u> </u>      | <b>├</b> ──┤   |        | <del> </del>                                     |                      |
| latural Brush/Forest | 214      | 99214024   | 9921402401   |             |               | ·                                     | <del> </del>                          | <del></del>        | <u> </u>      | <del>   </del> |        | <b>├</b>   |                      |
| atural Brush/Forest  | 215      |            | 9921500101   |             |               | <del></del>                           | <del></del>                           |                    |               | 0.25           |        |  | Fragment             |
| atural Brush/Forest  | 215      | 99215008   | 9921500601   |             | -             |                                       |                                       |                    |               | 0.25           |        |  | Fragment             |
| atural Brush/Forest  | 215      | 99215013   | 9921501301   |             |               |                                       | · · · · · · · · · · · · · · · · · · · |                    |               | 0.25           |        |  | Fragment             |
| stural Brush/Forest  | 216      | 99216006   |              |             |               |                                       | <del> </del>                          |                    |               | 0.25           | Ds     |  | Fragment             |
| etural Brush/Forest  | 214      |            | 9921400601   |             | -             |                                       | <del></del>                           | _                  |               |                |        |  |                      |
| stural Brush/Forest  | 209      |            | 9920903401   |             |               |                                       |                                       |                    |               | 0.25           |        |  | Fregment             |
| atural Brush/Forest  | 209      |            | 9920903801   |             |               |                                       |                                       |                    |               | 0.5            |        |  | Fregment             |
| atural BrustyForest  | 209      |            | 9920904301   |             |               | · · · · · · · · · · · · · · · · · · · |                                       |                    | <u> </u>      | 0.5            |        |  | Fragment             |
| atural Brush/Forest  | 209      |            | 9920904801   |             |               |                                       |                                       |                    |               | 0.25           |        |  | Fragment             |
| etural Brush/Forest  | 213      |            | 9921300401   |             |               |                                       |                                       |                    |               | 0.25           |        |  | Fragment             |
| atural Brush/Forest  | 213      | 99213009   | 302 1300 101 | <del></del> |               | <del></del>                           |                                       |                    |               | 0.25           | lbs .  |  | Fragment             |
| stural Brush/Forest  | 213      |            | 9921301801   |             |               | · · · · · · · · · · · · · · · · · · · |                                       |                    |               |                |        |  |                      |
| atural Brush/Forest  | 213      |            | 9921302301   |             |               |                                       |                                       |                    |               | 0.25           | pr     |  | Fragment             |
| Mural BrustyForest   | 209      |            | 9920902801   |             |               | <u> </u>                              |                                       |                    |               | 0.25           | bs     |  | Fragment             |
| stural BrustyForest  | 211      |            | 9921100101   |             |               |                                       |                                       |                    |               | 0.25           | lbs    |  | Fragment             |
| tural Brush/Forest   | 211      |            | 9921100501   |             |               | ·                                     |                                       |                    |               | 0.5            | lbs    |  | Fragment             |
| Hural Brush/Forest   | 211      |            |              |             |               | <u> </u>                              |                                       |                    |               | 0.25           | lbs.   |  | Fragment             |
| itural Brush/Forest  |          |            | 9921101001   |             |               | ·                                     |                                       |                    |               | 0.25           | lbs    |  | Fragment             |
| stural Brush/Forest  | 211      |            | 9921101501   |             |               | ···                                   |                                       |                    |               | 0.5            | ba     |  | Fregment             |
| dural Brush/Forest   |          |            |              |             |               |                                       |                                       |                    |               | 0.5            | bu     |  | Fragment             |
| nural BrustyForest   | 209      |            | 9920900901   |             |               |                                       |                                       |                    |               | 0.5            |        |  | Fragment             |
| Hural Brush/Forest   | 209      |            | 9920901501   |             |               |                                       |                                       |                    |               | 0.5            |        |  | Fragment             |
|                      | 209      |            | 9920902201   |             |               |                                       |                                       | $\neg$             |               | 0.25           |        |  | Fragment             |
| tural BrustyForest   | 210      |            | 9921002701   |             |               |                                       |                                       | 7                  | -             | 0.5            |        |  | Fragment             |
| tural Brush/Forest   | 204      |            | 9920400601   |             |               |                                       |                                       | 1                  |               | 0.25           |        |  | Fragment             |
| tural Brush/Forest   | 204      |            | 9920401301   |             |               |                                       |                                       | <del>-   -  </del> | -             | 0.25           |        |  | Fragment             |
| tural Brush/Forest   | 204      |            | 9920401302   | I           |               |                                       |                                       | <del>-  </del>     |               | 0.5            |        |  | Scrap                |
| tural BrustyForest   | 204      |            | 9920401701   |             |               |                                       |                                       | <del></del>        |               | 0.25           |        |  |                      |
| Lural BrustvForest   | 204      |            | 9920402201   |             |               |                                       |                                       | _                  |               | 0.25           |        |  | ragment              |
| Lural Brush/Forest   | 210      |            | 9921000201   |             |               |                                       |                                       |                    |               | 0.25           |        |  | ragment              |
| tural Brush/Forest   | 210      | 99210009   | 9921000901   |             |               |                                       | <del></del>                           | <del></del>        |               | 0.25           |        |  | ragment              |
| turel Brush/Forest   | 210      | 99210015   | 9921001501   |             |               | -                                     | <del></del>                           | <del></del>        |               |                |        |  | regment              |
| tural Brush/Forest   | 210      | 99210021   | 9921002101   | <del></del> | <del></del> - | ·                                     | <del></del>                           | <del></del>        |               | 0.25 I         |        |  | Fragment<br>Fragment |



|  |         |            |             |          | _  |  |  |  | DEPTH  | _  | WEIGHT       |   | _             |
|--|---------|------------|-------------|----------|--|--|--|--|--|--|--------------|---|---------------|
| SECTORS NAME                                 | GRID ID | ANOMALY IO | OBJECT ID   | EASTING  | NORTHING   | DESCRIPTION                                      | COMMENTS   | DEPTH  | UNITS  | WEIGHT   | UNITS        | EXPLOSIVE   | OBJ NAME      |
| latural BrustyForest                         | 204     | 99204004   |             |          |  |  |  | <del></del>                                      |  | 0.25   | lhe          | <del>                                     </del>  | Fragment      |
| latural Brush/Forest                         | 203     | 99203005   | 9920300501  |          |  |  | <del> </del> -                                   |  |  | 0.25   |              | -   | Fragment      |
| latural Brush/Forest                         | 203     | 99203012   | 9920301201  |          |  |  | <del>                                     </del> |  | <del> </del>                                     | 0.20   |              | · · · · · ·                                       |               |
| latural Brush/Forest                         | 203     | 99203018   |             |          | <u> </u>   |  | <del></del>                                      |  | <del>                                     </del> |  |              | <u> </u>  |               |
| Vatural Brush/Forest                         | 203     | 99203025   |             |          | <u> </u>   |  | <del></del>                                      |  |  | 0.5  | lhs.         |   | Fragment      |
| Pond   | 153     | 99153005   |             |          |  |  | <del></del>                                      |  |  | 0.5  |              |   | Fragment      |
| ond  | 153     | 99153009   |             |          |  |  | <del> </del>                                     |  |  | 0.25   |              | <del>                                     </del>  | Fragment      |
| Pond   | 155     | 99155005   | 9915500501  |          |  |  |  | _  |  | 0.25   |              |   | Fragment      |
| ond  | 155     | 99155011   |             |          |  |  | <del></del>                                      |  |  | - U.I.U  |              | <del> </del>                                      | Magnetic Rock |
| ond .  | 155     | 99155017   | 9915501701  |          |  | Magnetic Rock                                    | <del>                                     </del> |  | <del></del>                                      | <del>                                     </del> | lbs          | <del></del>                                       | Scrap         |
| ond ond                                      | 121     | 99121003   | 9912100301  | <u> </u> |  |  | <del></del>                                      |  |  | +  |              | <del>                                     </del>  |               |
| Pond   | 124     | 99124004   |             | <u> </u> | <u> </u>   |  | <del></del>                                      |  |  | - 2  | lbs          |   | Fragment      |
| Pinefarm                                     | 109     | 99109001   |             |          | <u> </u>   | Fuze   | <del></del>                                      |  | <del> </del>                                     | 0.5  |              | <del>                                     </del>  | Fragment      |
| Pinefarm                                     | 109     | 99109007   |             |          | <u> </u>   |  | <del> </del>                                     | <del></del> -                                    | <del>                                     </del> |  | ibs          | <del>1</del>                                      | Fragment      |
| Pinefarm                                     | 109     | 99109014   |             |          |  |  | <del> </del>                                     |  | <del> </del>                                     | 0.25   |              | 1   | Fragment      |
| Pinefarm                                     | 109     | 99109019   |             |          | <u> </u>   |  | <u> </u>   | ├  | <del> </del> -                                   | 1 4  | iba          | 1   | Fragment      |
| Pinefarm                                     | 109     | 99109026   | 9910902601  | <u> </u> |  | <u></u>  |  | <del></del>                                      | <del> </del>                                     | 0.25   |              | 1   | Fragment      |
| Pinefarm                                     | 109     | 99109033   | 991090330   | <u> </u> | <u> </u>   |  | <del> </del>                                     | <del> </del>                                     | <del> </del> -                                   |  | lbs          | <del>                                     </del>  | Fragment      |
| Natural Brush/Forest                         | 12      | 99012013   |             |          |  |  | <u> </u>   | <b>├-</b>  | <del> </del>                                     | 0.25   |              | <del>                                     </del>  | Fragment      |
| Vatural Brush/Forest                         | 12      | 99012017   | 990120170   | 1        |  |  |  | <del></del>                                      |  | 0.25   |              | <del></del> -                                     | Fragment      |
| Natural Brush/Forest                         | 12      | 99012023   | 990120230   | 1        |  |  | <u> </u>   | <del></del>                                      | <del> </del>                                     | - U.Z.   | 100          | <del> </del>                                      |               |
| Natural BrustyForest                         | 10      | 99010005   |             |          | <u> </u>   |  |  | <del></del>                                      | +  | 1 0  | lbs          | +   | Fragment      |
| Natural Brush/Forest                         | 10      | 99010010   | 990100100   | 1        |  |  |  | ├──  | <del> </del>                                     |  | lbs          | <del> </del>                                      | Fragment      |
| Natural Brush/Forest                         | 10      |            | 990100170   |          |  | <u> </u>   |  | <b>}</b>   | <del> </del>                                     |  | lbs          | +   | Fragment      |
| Natural Brush/Forest                         | 10      | 99010023   | 990100230   | 1        |  |  | <del>-</del>                                     | -  | <del> </del>                                     |  | lbs          | <del></del>                                       | Fragment      |
| Natural Brush/Forest                         | 12      |            | 990120070   | 1        |  |  | <del></del>                                      |  | <del>} -</del>                                   |  | ibs          | <del>                                      </del> | Fragment      |
| Natural Brush/Forest                         | 37      | 99037007   | 990370070   | 1        |  |  | <del></del>                                      | <del> </del>                                     | +  |  | Ibs          | -   | Fragment      |
| Natural Brush/Forest                         | 37      |            | 990370120   |          |  |  |  | <del> </del>                                     | +  |  | ibe          |   | Fragment      |
| Natural Brush/Forest                         | 37      | 7 99037010 | 990370160   | 1        |  |  |  | <del> </del>                                     | +  |  | 5 lbs        | <del></del>                                       | Fragment      |
| Natural Brush/Forest                         | 61      | 99069003   | 3 990690030 | 1        | 1  |  |  | <b>↓</b> —                                       | <del>-</del>                                     |  | 5 lbs        | +   | Fragment      |
| Natural Brush/Forest                         | 7(      | 9907000    | 1 990700010 | 1        |  | <u> </u>   |  | <del>                                     </del> | _  |  | 5 fbs        | <del></del>                                       | Fragment      |
| Natural Brush/Forest                         | 70      | 9907000    | 8 990700060 | 1        |  |  |  |  | <del></del>                                      |  | 5 lbs        |   | Fragment      |
| Natural Brush/Forest                         | 7:      | 9907200    | 4 990720040 | 1        |  | <u> </u>   |  | <del></del> -                                    | ∔  |  | 5 lbs        | <del>-</del>                                      | Fragment      |
| Natural Brush/Forest                         | 7       | 2 9907201  | 0 990720100 | 1        | <u> </u>   |  |  |  | +  |  | 5 libs       | -   | Fragment      |
| Natural Brush/Forest                         | 1       |            | 5 990120050 |          |  |  |  | <b>↓</b>   | <del></del>                                      |  | 1 lbs        | +   | Fragment      |
| Natural Brush/Forest                         | 4       |            | 1 990420010 |          |  |  |  | 4  | <del> </del> -                                   |  | 5 libs       | <del> </del>                                      | Fragment      |
| Natural Brush/Forest                         | 4       | 2 9904200  | 5 990420050 | 11       |  |  |  | <b>↓</b>   | <del> </del>                                     |  | 5 libs       | <del> </del>                                      | Fragment      |
| Natural Brush/Forest                         | 1 3     |            | 4 990380040 | 11       |  |  |  | ↓  | <del></del>                                      |  |              | <del></del>                                       | Fragment      |
| Natural Brust/Forest                         | 1 3     |            |             |          |  |  |  | ╄  | +-   |  | 5 lbs        | <del></del>                                       | Fragment      |
| Natural BrusivForest                         | 1 3     |            |             |          |  |  |  | ↓  |  | <u></u>  | 5 1bs        | <del> </del>                                      | riegineik.    |
| Natural Brush/Forest                         | 1 3     |            |             | 1 ''     | 1  |  |  | <del> </del>                                     |  | <del></del>                                      | <del> </del> | _   | <del> </del>  |
| Natural Brush/Forest                         | 4       |            |             |          | T -  |  |  | ↓  |  |  | <del></del>  | +   | <del>- </del> |
| Natural BrustyForest                         | 3       |            |             | 1        | 1  |  |  |  |  | _  |              | <del></del>                                       |               |
| Natural Brush/Forest                         |         |            |             | 11       |  |  |  | 1  |  |  | 5 lbs        | _   | Fragment      |
| Natural Brush/Forest                         |         |            |             |          | <del></del>                                      |  |  |  |  | 0  | 5 lbs        |   | Fragment      |
|  |         |            |             |          | 1  | <del>                                     </del> |  |  |  |  | 1 lbs        |   | Fragment      |
| Pond   | 12      | 5 9902500  |             |          | <del>                                     </del> |  |  |  |  |  | 5 lbs        |   | Fragment      |
| Natural Brush/Forest<br>Natural Brush/Forest |         | 5 9902500  |             |          | <del></del>                                      |  |  |  |  | 0  | .5 lbs       |   | Fragment      |

| SEATABO MANO         | ARK - | ***      |            |               |            |   |                |  | DEPTH  |  | WEIGHT |              |              |
|----------------------|-------|----------|------------|---------------|------------|---|----------------|--|--|--|--------|--------------|--------------|
|                      |       |          |            |               | NORTHING   | DESCRIPTION                             | COMMENTS       | DEPTH  |  | WEIGHT   |        | EXPLOSIVE    | OBJ NAME     |
| Natural Brush/Forest | 25    |          | 9902501201 |               |            |   | <u></u>        | T  | f  | 0.25   | lbs    |              | Fragment     |
| Natural Brush/Forest | 25    |          | 9902501701 |               |            |   |                |  |  | 0.25   |        | <del></del>  | Fragment     |
| Natural Brush/Forest | 25    |          |            |               |            |   |                |  |  | 0.25   |        | 1            | Fragment     |
| Natural Brush/Forest | 25    | 99025029 |            |               | <u> </u>   |   |                |  |  | 0.25   |        | ·            | Fragment     |
| Pinefarm             | 63    |          | 9906300401 |               |            |   |                | 1  |  |  | ba     | <del></del>  | Fragment     |
| inefarm              | 63    |          | 9906301101 |               |            |   |                |  | <del>                                     </del> | 0.5  |        |              |              |
| -inefarm             | 63    | 99053017 | 9906301701 |               |            |   |                | <del></del>                                      |  | 0.25   |        |              | Fragment     |
| inefarm              | 63    | 99063020 | 9906302001 |               |            |   |                |  |  | 0.25   |        | ·            | Fragment     |
| ineferm              | 63    | 99083027 | 9906302701 |               |            |   |                |  | <del> </del>                                     | 1.5  |        |              | Fragment     |
| letural Brush/Forest | 30    | 99030005 | 9903000501 |               |            | Barbed wire                             | ·              | <del></del>                                      | <del> </del>                                     | 0.5  | _      | <del> </del> | Fragment     |
| latural Brush/Forest | 30    | 99030012 | 9903001201 |               |            |   |                |  | <del></del>                                      | 0.5  |        |              | Scrap        |
| latural Brush/Forest | 30    | 99030017 | 9903001701 |               |            |   | <del></del>    |  | <del></del>                                      |  |        |              | Fragment     |
| latural Brush/Forest | 30    | 99030024 | 9903002401 |               |            |   |                | <del></del> -                                    |  | 0.5  |        | ———          | Fragment     |
| latural Brush/Forest | 32    | 99032005 |            |               |            |   | <del></del> ·_ | <del></del>                                      | <del> </del>                                     | 0.5  | N-15   | <del> </del> | Fragment     |
| latural Brush/Forest | 71    | 99071005 | 9907100501 |               |            |   | <del></del>    | <del>                                     </del> | <del></del>                                      | <del>                                     </del> |        | <del></del>  |              |
| inefarm .            | 61    | 99061007 | 9908100701 |               |            |   |                | <del></del>                                      | <b>├</b> ──                                      | 0.25   | _      | <b></b>      | Fregment     |
| inelam               | 81    | 99061015 | 9908101501 |               |            |   | Bussie Seriese |  |  | <del>  </del>                                    | lbe    |              | Scrap        |
| 'inefarm             | 81    | 99061023 |            |               | ""         |   | Buggie Springs | <del></del>                                      |  | <b> </b>   |        | <u> </u>     | Screep       |
| inefarm              | 112   |          | 9911200701 |               |            |   | <del></del>    | <del></del>                                      |  | <b> </b>   |        |              |              |
| inefarm              | 112   |          | 9911200702 |               |            |   | <del> </del>   |  |  | 2.3  |        | <u> </u>     | Fragment     |
| inefarm              | 112   |          | 9911201201 |               |            |   | <del></del>    |  |  | 2.1  |        |              | Scrap        |
| inefarm              | 112   | 99112012 | 9911201202 |               |            |   | <del></del>    |  |  |  | ibs    |              | Fragment     |
| inetarm              | 112   |          | 9911201701 |               |            | <del></del>                             |                |  |  | 1.1  |        |              | Screp        |
| Inefarm              | 111   |          | 9911100601 |               |            | <del></del>                             |                |  |  | 0.5  |        |              | Fragment     |
| Ineferm              | 110   |          | 9911000301 |               |            |   |                |  |  | 2  | lbe .  |              | Fragment     |
| inefarm              | 110   |          | 9911001101 | -             |            | <del></del>                             |                |  |  | 6]   | lbe    |              | Fragment     |
| nefam                | 207   |          | 9920700301 |               |            |   |                |  |  | 0.5  | lba    |              | Fragment     |
| inefarm              | 207   |          | 9920701001 |               |            |   |                |  |  | 0.25   | ltop   |              | Fragment     |
| ineterm              | 208   |          | 9920800401 |               |            | . <u> </u>                              |                |  |  | 0.25   | lbş    |              | Fragment     |
| inefarm              | 208   |          | 9920800901 |               |            | <u> </u>                                |                |  |  | 0.5  | lbş .  |              | Fragment     |
| inelam               | 206   |          |            |               |            | <u> </u>                                |                |  |  | 0.5  | itos   |              | Fragment     |
| netarm               |       |          | 9920601301 |               |            |   |                |  |  | 1  | tos .  |              | Fregment     |
| netarm               | 206   |          | 9920601801 |               |            |   |                |  |  | 0.5  | bs     |              | Fregment     |
| ixefarm              | 182   |          | 9918200201 |               |            |   |                |  |  | 0.5  | be     |              | Fragment     |
| nefarm               | 182   |          | 9918200801 |               |            |   |                |  |  | 0.75   | be .   |              | Fregment     |
| nefarm               | 182   |          | 9918201301 |               |            |   |                |  |  | 0.75   |        |              | Fragment     |
|                      | 183   |          | 9916300101 |               |            |   |                |  |  | 0.25   |        |              | Fragment     |
| nefam                | 183   |          | 9918300102 |               |            |   |                |  |  |  | lbs    |              | Scrap        |
| nefarm               | 183   |          | 9918300801 |               |            |   |                | <del>                                     </del> |  | 1.5  |        |              | Fragment     |
| nefarm               | 183   |          | 9918301501 | T             |            |   |                | 1  |  | 0.25   |        |              | Fragment     |
| nefarm               | 163   |          | 9918302001 |               |            |   |                | +  |  | 0.25   |        |              |              |
| nefarm               | 184   | 99184007 | 9918400701 |               |            | - · · · · · · · · · · · · · · · · · · · |                | <del></del>                                      |  | 11   |        |              | Fragment     |
| nefarm               | 184   |          | 9918401201 |               |            | <del></del>                             | <del></del>    | <del>                                     </del> |  | 0.25   |        |              | Fragment     |
| nefarm               | 184   |          | 9918401601 |               |            | · · · · · · · · · · · · · · · · · · ·   | <del></del>    | ┪┈━╽   |  | 0.25   |        |              | Fragment     |
| nefarm               | 184   | 99184021 | 9918402101 |               | <u>`</u> _ | -                                       |                | +  |  |  |        |              | Fragment     |
| neferm               | 181   |          | 9918100501 |               |            |   |                | <del>-  </del>                                   |  | 0.25   |        |              | Fragment     |
| nefarm               | 181   | 99161011 |            |               | 1          | <del></del>                             |                | <del>+ - </del>                                  |  | 1.5  | D\$    |              | Fragment     |
| refarm               | 181   | 99181017 | 9918101701 | <del></del> + |            | <del></del> -                           | <del></del>    | <del>-  </del>                                   |  |  |        | <u>:</u>     |              |
| nefarm               | 181   |          | 9918102301 | <del></del>   |            | <del></del>                             | <del></del>    | <del></del>                                      |  | 2 4  | 08     | <u> </u>     | <b>Scrap</b> |



| GRID ID |  |   |  |  |  |  |   |   |                          |                             |  |  |
|---------|--|---|--|--|--|--|---|---|--------------------------|-----------------------------|--|--|
|         | ANOMALY ID   | OBJECT (D   | EASTING  | NORTHING   | DESCRIPTION  | COMMENTS   | DEPTH   | UNITS   | WEIGHT                   | UNITS                       |  | OBJ NAME   |
| 142     | 99142005   | 9914200501  | 1  |  | Fuze body  |  |   |   | 0.5                      |                             |  | Fragment   |
| 142     |  | 9914200801  |  | ·  |  |  |   | L   | 0.5                      |                             |  | Fragment   |
|         |  |   |  |  |  |  |   |   |                          |                             | <b>.</b>   | Fragment   |
|         |  |   |  |  |  |  | <u> </u>  |   |                          | _                           | <u> </u>   | Scrap  |
|         |  |   |  |  |  |  |   |   |                          |                             | <b>1</b>   | Scrap  |
|         |  |   |  | <del></del>  |  |  |   | 1   |                          |                             |  | Scrap  |
|         |  |   |  | <del></del>  |  |  |   | <u> </u>  | 3                        | ibs                         | <u> </u>   | Scrap  |
|         |  |   |  | <del> </del>   |  |  |   | <u></u>   |                          |                             |  | Magnetic Roc   |
|         |  |   |  | <del> </del>   |  |  |   | I   |                          |                             |  | Fragment   |
|         |  |   |  | <del> </del>   |  |  |   | Γ _   | 1                        | 10s                         | <u> </u>   | Fragment   |
|         |  |   |  | <del>                                     </del>   |  |  |   | T   |                          |                             |  | Fragment   |
|         |  |   |  | <del>\</del>   |  |  |   |   | 0.5                      | lbs                         | <u> </u>   | Scrap  |
|         |  |   |  | <del>                                     </del>   | <del>                                     </del>   |  |   |   | 0.25                     | lbs                         | <u>.</u>   | Fragment   |
|         |  |   |  | <del>                                     </del>   | <del></del>  | -  |   | T   | 0.75                     | lbs                         | L  | Fragment   |
|         |  |   |  | <del> </del>   | <del> </del>   |  |   | <u> </u>  | 0.5                      | lbs                         |  | Fragment   |
|         |  |   |  | <del> </del>   |  | -  |   | <del>                                     </del>          | 0.25                     | lbs                         |  | Fragment   |
|         |  |   |  | +  | <del>                                     </del>   | <del></del>  |   | 1   | 0.25                     | lbs                         |  | Fragment   |
|         |  |   | <u>'</u>   | <del>{ -                                   </del>  | <del> </del>   |  |   | <del>                                     </del>          |                          |                             |  |  |
|         |  |   | <del>. </del>  | <del>{-</del>  | <del></del>  | <del>-  </del>   |   | 1   | 0.25                     | lbs.                        |  | Fragment   |
|         |  |   |  | <del>                                     </del>   | <del>  </del>  | <del>_</del>   |   | <del>                                     </del>          | 0.4                      | lbs                         |  | Fragment   |
|         |  |   |  | <del>                                     </del>   | <del> </del>   | <del></del>  |   | <del>                                     </del>          | 0,9                      | ilbs                        |  | Fragment   |
|         |  |   |  | <u> </u>   | <u> </u>   |  |   | <del>                                      </del>         | 0.29                     | ibs                         |  | Fragment   |
|         |  |   |  | <del> </del>   | <del> </del>   |  |   | 1   |                          |                             |  | Fragment   |
|         |  |   |  | <b>↓</b>   | <b>-</b>   | <del>- i</del>   |   | 1   |                          |                             |  | Fragment   |
|         |  |   |  | 1  | ļ  |  | <del></del>   | <del>                                     </del>          |                          |                             |  | Fragment   |
|         |  |   |  | <b>-</b>   | . <b> </b>   |  | <del></del>   | + -   |                          |                             |  | Fragment   |
|         |  |   |  | <u> </u>   |  |  | <del></del>   | + -   |                          |                             |  | Fragment   |
| 55      |  |   |  |  | ļ  |  |   | +   |                          |                             | <del></del>  | Fragment   |
| 56      |  |   |  | <u> </u>   | <del> </del>   |  |   | +   |                          |                             | <del> </del>   | Fragment   |
| 55      |  |   |  | <u> </u>   |  |  |   | +   |                          |                             | +  | Fragment   |
| 56      |  |   |  |  |  |  |   | +   |                          |                             | <del></del>  | Fragment   |
| 56      |  |   |  |  |  |  |   | +   |                          |                             |  | Fragment   |
| 53      | 9905300  | 3 990530030   | 11   |  |  |  |   | +   |                          |                             | <del> </del>   | Fragment   |
| 53      | 9905300  | 8 990530080   | 11   | 1  | <u> </u>   |  | <del></del>   | +-  |                          |                             | +  | Fragment   |
| 53      | 9905301  | 5 990530150   | 11   | 1  | <u> </u>   |  |   | +   |                          |                             | +  | Fragment   |
| 82      |  |   |  | <u></u>  |  |  |   |   |                          |                             | <del> </del>   | Fragment   |
|         |  |   |  |  | <u> </u>   |  | <u></u>   | <del> </del>  |                          |                             | <del></del>  | Fragment   |
|         |  |   |  |  | <u></u>  |  |   | 4   |                          |                             |  | Ordnance   |
|         |  |   |  | 1112319  | 105 mm BE/Inert  |  |   | 4 In.   |                          |                             |  |  |
|         |  |   |  | 1  |  |  |   | <del>                                     </del>          |                          |                             |  | Fragment   |
|         |  |   |  |  |  |  |   |   |                          | _                           | <del></del>  | Fragment   |
|         |  |   | )1   |  | Blade  |  |   |   |                          |                             | <del></del>  | Fragment   |
|         |  |   |  | <u> </u>   |  |  |   |   |                          |                             |  | Fragment   |
|         |  |   |  | 1  | T  |  |   |   |                          |                             |  | Fragment   |
|         |  |   |  | 1  | <u> </u>   |  |   |   |                          |                             |  | Fragment   |
|         | *  |   |  | 1  |  | 1  | T   |   | 0.2                      |                             |  | Fragment   |
|         |  |   |  | <del>1-</del>  | Paint can lid  |  |   |   |                          | 2 lbs                       |  | Scrap  |
|         |  |   |  | <del> </del> -   | · · · · · · · · · · · · · · · · · · ·  |  |   |   | 0.3                      | 25 <b>Tos</b>               |  | Scrap  |
|         |  |   |  | -+   | Magnetic Rock  |  | - i   |   |                          |                             | T  | Magnetic R   |
|         | 127 127 127 128 128 128 128 129 129 129 120 141 141 136 106 106 106 106 107 107 107 107 55 56 56 56 56 58 88 88 88 88 88 88 88 88 88 | 127 99127003 127 99127008 127 99127018 128 99128002 128 99128002 128 99128002 129 99128002 141 99141004 141 99141010 136 99106006 147 99147002 106 99106006 106 99106006 106 99106001 106 99106001 106 99106001 106 99106001 106 99106001 107 9910501 108 99108001 108 9908001 108 9908001 108 99085001 | 127 99127003 991270030 127 99127008 991270080 127 99127018 991270180 128 99128002 991280020 128 99128009 991280020 128 99128009 991280090 141 99141004 991410100 136 99136006 991360080 147 99147002 991470020 106 99106001 991060010 106 99106001 99106010 106 99106015 99106010 106 99106015 991060150 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99105005 991050050 105 99055010 990550100 107 99107005 991070050 107 99107005 991070050 107 99107005 991070050 107 99107005 991070050 107 99107005 991050100 108 99055003 990550030 | 127 99127003 9912700301 127 99127008 9912700801 127 99127013 9912701301 128 99128002 9912800201 128 99128002 9912800901 129 99128009 9912800901 141 99141010 9914101001 136 99136006 9913600601 147 99147002 9914700201 106 99106001 9910600101 106 99106008 9910600601 106 99106008 9910600601 106 99106001 9910601001 106 99105015 9910501501 105 99105005 9910500501 105 99105005 9910500501 105 99105001 9910801001 106 99108001 9910801001 107 99107001 9910801001 108 99108001 9910800101 108 99108001 9910801001 108 9910801 9910801001 108 9910801 9910801001 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 108 9910800 9910800901 109 9910800 9910800001 108 9910800 9910800001 109 9910800 9910800001 108 9910800 9910800001 109 9910800 9910800001 109 9910800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 9900800 9900800001 109 990080000 9900800001 109 99008000 99008000001 109 99008000 99008000001 109 99008000 99008000001 109 99008000 990080000000000000000000000 | 127 99127003 9912700301 127 99127008 9912700801 127 99127018 9912701801 128 99128002 9912800201 128 99128009 9912800901 141 99141004 9914100401 141 99141010 9914101001 138 99136006 9913600601 147 99147002 9914700201 108 99106001 9910600101 108 99106001 9910600601 109 99106001 9910600601 100 99106010 9910600601 100 99106010 9910601001 100 99106010 9910601001 100 99106010 9910601001 100 99106010 9910601001 100 99106010 9910601001 101 99105010 9910601001 102 99105005 9910500501 103 99105005 9910500501 104 9910600 9910600601 105 99105005 9910600601 106 99106009 9910600601 107 99107010 9910801401 108 99108009 9910800901 109 99107005 9910700501 107 99107011 9910701101 108 99107005 9910700501 107 99107010 9910701001 108 99107005 9910700501 107 99107010 9910701001 108 99107005 9910700501 109 99058000 9905800001 109 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 99058000 9905800001 100 990580000 9905800001 100 990580000 9905800001 100 990580000 990580000000000000000000000 | 127 99127003 9912700801 127 99127018 991270301 127 99127018 9912701801 128 99128002 9912800201 129 99128002 9912800201 121 99128009 9912800201 121 99128009 9912800901 121 99128009 9912800901 122 99128009 9912800901 123 99128009 9912800901 124 99141004 9914100401 125 99128009 9912800801 126 99128009 9912800801 127 99147002 9914700201 128 99128009 9912800801 129 99128009 9912800801 120 99128009 9912800901 120 99128009 9912800901 120 99128009 9912800901 120 99128009 9912800901 120 99128019 99128019 120 99128019 12 | 127 99127003 9912700301 127 99127008 9912701301 127 99127018 9912701301 127 99127018 9912701301 128 99128009 9912800901 128 99128009 9912800901 141 99141004 9914101001 136 99138006 9913800801 147 99147002 9914700201 108 99108001 9910800101 108 99108001 9910800101 108 99108001 9910801001 108 99108001 9910801001 108 99108001 9910801001 108 99108001 9910801001 108 99108001 9910801001 108 99108001 9910801001 108 99108001 9910801001 109 9910901 9910801001 101 9910901 9910901001 102 9910901 9910901001 103 9910901 9910901001 104 9910901 9910901001 105 9910901 9910901001 106 9910901 9910901001 107 9910701 9910901001 108 99108009 9910800501 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 9910901 9910901001 109 99109010 990000001 109 9900000 9900000001 109 9900000 9900000001 109 99000000 990000000000 | 127 99127003 9912700801 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 127 99127003 991270040 1 | 127   99127003   9912700501 | 127   99127003   991270040   1   105   1 | 127   99127003   991270030   1   1   1   1   1   1   1   1   1 |

| SECTORS NAME         | GRID ID | ANOMALY ID | OBJECT ID          | EASTING  | NORTHING      | DESCRIPTION    | COMMENTS       | 6.0              | DEPTH    |        | WEIGHT |           |                 |
|----------------------|---------|------------|--------------------|--|---------------|----------------|----------------|------------------|----------|--------|--------|-----------|-----------------|
| ond                  | 170     | 99170005   |                    |  |               |                | COMMEN 12      | DEPTH            | UNITS    | WEIGHT | UNITS  | EXPLOSIVE | <b>OBJ NAME</b> |
| ond                  | 171     |            | <b>09171008</b> 01 | <del> </del> -                                   | <del></del>   | <u></u>        |                |                  |          |        |        | Γ         |                 |
| ond                  | 131     | 99131003   | 8811100001         | <u> </u>   |               |                |                |                  |          | 0.3    | ibs    |           | Scrap           |
| Weterm               | 64      |            | 9906400101         |  | <del> </del>  | <del> </del>   |                |                  |          |        |        |           | 34.24           |
| latural Brush/Forest | 248     |            | 9924800601         |  |               | <u> </u>       |                |                  |          | 0.25   | lbs    |           | Fragment        |
| ond                  | 152     |            | 9915201501         |  |               | <u> </u>       |                |                  |          | 0.5    | lbs    |           | Fragment        |
| latural BrustyForest | 215     | 99215003   | ##10ZUIDUI         | <del> </del>                                     | <u> </u>      |                |                |                  |          | 0.25   | lbs    | <u> </u>  | Fragment        |
| atural Brust/Forest  | 203     |            | 9920301601         | <del> </del>                                     |               | <b></b>        |                |                  |          |        |        |           |                 |
| atural Brush/Forest  | 70      |            | 9907000701         |  |               | <u> </u>       |                |                  |          | 0.25   | lbs    |           | Fragment        |
| E/CA Grid 87         | 105     |            | 9910501801         |  |               |                |                |                  | <u> </u> | 1      | lbs.   |           | Fragment        |
| atural Brush/Forest  | 279     |            | 9927900101         |  |               | 0-81           | <u>-</u>       |                  |          | 0.25   | Ibe    |           | Fragment        |
| etural BrustyForest  | 279     |            | 9927900201         | _  |               | Soil layer     |                |                  |          |        |        |           | Soil Layer      |
| atural Brush/Forest  | 279     |            | 9927900301         | <del></del>                                      | <u> </u>      | Magnetic Rocks | <del></del>    |                  |          |        |        |           | Magnetic Ro     |
| stural Brush/Forest  | 275     |            | 9927500101         | <del>                                     </del> | ·             |                |                |                  |          | 0.1    |        |           | Screp           |
| atural Brush/Forest  | 276     |            | 9927600101         | <del>                                     </del> |               |                |                |                  |          | 0.5    |        |           | Scrap           |
| atural BrustyForest  | 276     |            | 9927600102         | -  |               | ····           |                |                  |          | 0.5    | lbs    |           | Fragment        |
| atural Brush/Forest  | 281     | 99281001   |                    | <del>                                     </del> |               |                |                |                  |          | 1      | lbe    |           | Scrap           |
| stural Brush/Forest  | 281     |            | 9928100201         | <del></del>                                      |               |                |                |                  |          |        |        |           |                 |
| etural Brusit/Forest | 261     |            | 9928100301         |  |               | <u> </u>       |                |                  |          | 3      | Ď      |           | Scrap           |
| atural Brush/Forest  | 201     | 99281004   |                    |  |               | ·              | ····           |                  |          | 3      | b      |           | Scrap           |
| stural Brush/Forest  | 281     | 99281005   |                    | <del></del>                                      |               |                |                |                  |          |        |        |           |                 |
| stural Brush/Forest  | 283     | 99283001   | 9928300101         |  |               | Soil tayer     |                |                  |          |        |        |           |                 |
| stural Brush/Forest  | 283     |            | 9928300201         |  |               | Soil layer     |                |                  |          |        |        |           | Soll Layer      |
| atural BrustvForest  | 283     |            | 9926300301         |  |               | Barbed wire    |                |                  |          |        |        |           | Soll Layer      |
| atural Brush/Forest  | 283     |            | 9928300401         |  |               | Magnetic Rock  |                |                  |          | 1      | De     |           | Scrap           |
| nural Brush/Forest   | 231     |            | 9923100101         |  |               | magnetic rock  |                |                  |          |        |        |           | Magnetic Ro     |
| stural Brush/Forest  | 231     |            | 9923100201         |  |               |                | <del></del>    |                  |          |        | lbs .  |           | Fragment        |
| stural Brush/Forest  | 231     | 99231003   |                    |  |               |                |                |                  |          | 0.25   | lba    |           | Fragment        |
| thiral Brush/Forest  | 230     | 99230001   | 9923000101         |  |               | <u> </u>       |                |                  |          |        |        |           |                 |
| nural Brush/Forest   | 230     |            | 9923000201         |  | ·             |                |                |                  |          | 0.5    |        |           | Fragment        |
| stural Brush/Forest  | 229     | 99229001   | 9922900101         |  | -             |                | ·              |                  |          | 0.5    |        |           | Fragment        |
| tural Brush/Forest   | 229     |            | 9922900201         |  |               | <del></del>    |                |                  |          | 0.5    |        |           | regment         |
| itural Brush/Forest  | 229     | 99229003   | 9922900301         |  |               |                | <del></del>    |                  |          | 0.5    |        |           | Fregment        |
| itural Brush/Forest  | 227     | 99227001   | 9922700101         |  |               |                | <del></del>    | →                |          | 0.5    |        |           | Fragment        |
| tural Brush/Forest   | 227     | 99227002   |                    |  |               |                | <del>-</del> - | <del></del>      |          | 0.25   | lbe    |           | ragment         |
| tural Brush/Forest   | 227     | 99227003   | 9922700301         |  | <del></del>   |                | <del></del>    | <del></del>      |          |        |        |           |                 |
| tural Brush/Forest   | 228     | 99228001   | <b>8922800101</b>  |  | <del></del>   |                | ····           | <del></del>      |          |        | bs     |           | rágment         |
| tural Brush/Forest   | 228     | 99228002   |                    |  |               |                | <del></del>    |                  |          | 0.5    | bs     |           | ragment         |
| tural Brush/Forest   | 157     | 99157001   | 9915700101         |  | h             | Barbed wire    | <del></del>    | ━╊───            |          |        |        |           |                 |
| tural BrustvForest   | 157     |            | 9915700201         |  | <del></del>   |                | <del></del>    | →                |          | 0.25   |        |           | ragment         |
| lumi Brush/Forest    | 157     | 99157003   | 1                  |  |               |                | <del></del>    | <del>-    </del> |          | 0,5    | bs     |           | ragment         |
| tural Brush/Forest   | 158     | 90156001   | 9915800101         | +  | <del></del>   |                | <del></del>    |                  |          |        | ]      |           |                 |
| hiral Brush/Forest   | 158     |            | 9915800201         | <del></del>                                      |               | <del></del>    |                |                  |          | 0.25   |        | #         | ragment         |
| tural Brush/Forest   | 158     |            | 9915800301         |  | <del></del> + |                | <del></del>    | <del></del>      |          | 0.5    |        |           | regment         |
| tural Brush/Forest   | 159     | 99159001   |                    |  |               |                | <del></del>    |                  |          | 0.5    | bs T   |           | regment         |
| tural Brush/Forest   | 159     | 99159002   | 9915900201         | +  |               |                |                |                  |          |        |        |           |                 |
| tural Brush/Forest   | 159     |            | 9915900301         | <del></del>                                      |               |                |                |                  |          | 0.25   |        |           | ragment         |
| tural Brush/Forest   | 159     | 99159004   |                    |  |               |                |                | 1 1              | 1        | 0.25   | bs I   | 16        | ragment         |





|                        |         |                 |            |   | ···  |  |             |   | DEPTH    |        | WEIGHT     | <u> </u>    |          |
|------------------------|---------|-----------------|------------|---|--|--|-------------|---|----------|--------|------------|-------------|----------|
| SECTORS NAME           | GRID ID | ANOMALY ID      | OBJECT ID  | EASTING   | NORTHING   | DESCRIPTION  | COMMENTS    | DEPTH                                   | UNITS    | WEIGHT |            | EXPLOSIVE   | OBJ NAME |
| Natural Brush/Forest   | 159     | 99159005        | 9915900501 | 1   |  |  |             |   |          | 0.25   |            |             | Fragment |
| Landfill and Compostir |         |                 |            |   |  |  |             |   |          | 0.25   | lbs        |             | Fragment |
| Landfill and Compostir |         |                 |            | 1   |  |  |             |   | <u> </u> |        |            |             |          |
| Landfill and Compostic |         |                 | 9909700301 | il · · · · · · · · · ·                            |  |  |             |   |          |        | lbs        |             | Scrap    |
| Natural Brush/Forest   | 99      |                 | 9909900101 |   |  |  |             | 1                                       | <u> </u> | 0.13   |            |             | Fragment |
| Natural BrusiVForest   | 99      |                 | 9909900201 | il –  |  |  |             |   | <u> </u> | 0.13   |            |             | Fragment |
| Natural Brush/Forest   | 199     |                 | 991990080  |   | · · · · · ·                                      | (Second set)                                       |             |   |          | 0.25   |            |             | Screp    |
| Natural Brush/Forest   | 199     |                 | 991990090  |   |  | (Second set)                                       |             | <u> </u>                                |          | 0.25   |            | J           | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990100  |   |  | (Second set)                                       |             |   |          | 0.25   |            |             | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990110  |   |  | (Second set)                                       |             |   |          | 0.25   |            | <u> </u>    | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990120  |   |  | (Second set)                                       |             |   |          | 0.25   |            | <u> </u>    | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990130  |   |  | (Second set)                                       |             |   |          | 0.25   | lbs        |             | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990140  |   |  | (Second set)                                       |             |   |          | 0.25   |            | 1           | Scrap    |
| Natural BrustyForest   | 199     |                 | 991990150  |   |  | (Second set)                                       |             |   |          | 0.25   | lbs        | <u> </u>    | Screp    |
| Natural Brush/Forest   | 199     |                 |            | 1   |  | <u> </u>   |             |   |          |        | <u> </u>   |             |          |
| Natural Brush/Forest   | 199     |                 |            | <del>1</del>                                      |  |  |             |   |          |        |            |             | <u> </u> |
| Natural Brush/Forest   | 199     |                 | 991990180  | 1   | T  | (Second set)                                       |             |   |          | 0.25   |            | <del></del> | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990190  |   | i  | (Second set)                                       |             |   |          | 0.25   |            |             | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990200  |   | T  | (Second set)                                       |             |   | <u> </u> | 0.5    | lbs        |             | Scrap    |
| Natural Brush/Forest   | 199     |                 |            | <del></del>                                       | <u> </u>   | i  |             |   |          |        | <u> </u>   |             | ļ        |
| Natural Brush/Forest   | 199     |                 | 991990220  | 1   | 1  | (Second set)                                       |             |   |          | 0.25   | lbs        |             | Scrap    |
| Natural Brush/Forest   | 199     |                 |            | 1   | †  | · · · · · · · · · · · · · · · · · · ·              |             | l                                       |          | 1      |            |             |          |
| Natural BrusivForest   | 199     |                 | 991990240  | 1   | † <b></b>  | Plow blade(Second Set)                             |             |   |          | 3      | ibs        |             | Scrap    |
| Natural BrustyForest   | 199     |                 | 991990250  |   | t  | Nail (Second set)                                  |             |   |          | 0.25   |            |             | Scrap    |
| Natural Brush/Forest   | 199     |                 | 991990260  |   | <del></del>                                      | Nail (Second set)                                  |             |   |          | 0.25   | lbs        | l           | Scrap    |
| Natural Brush/Forest   | 199     |                 |            | <del>'                                     </del> | <u> </u>   | <u> </u>   |             | "                                       |          |        |            |             |          |
| Natural Brust/Forest   | 199     |                 |            |   | 1  |  |             |   |          |        | Ţ"""       |             |          |
| Natural Brush/Forest   | 199     |                 | 991990290  | <u> 1</u>   |  | Nail (Second set)                                  |             |   |          | 1      |            | _L          | Screp    |
| Natural Brush/Forest   | 199     |                 | 991990300  |   | <u> </u>   | (Second set)                                       |             |   |          |        | ibs        | <u> </u>    | Screp    |
| Natural Brush/Forest   | 199     |                 | 991990310  |   |  | Nail (Second set)                                  |             |   |          | 0.25   | lbs        |             | Scrap    |
| Natural BrustyForest   | 198     |                 | 991990320  |   | 1  | Nail (Second set)                                  |             |   | T        |        | lbs        |             | Scrap    |
| Natural Brush/Forest   | 199     |                 |            | <u>'</u>  |  |  |             |   |          | $\Box$ | ļ <u> </u> | `l          |          |
| Natural Brush/Forest   | 199     |                 |            | <del>                                     </del>  | <del> </del>                                     |  | <u> </u>    |   |          |        |            |             | <u>l</u> |
| Natural Brush/Forest   | 196     |                 |            | 1   |  |  |             |   |          |        |            |             | <u> </u> |
| Natural Brush/Forest   | 199     |                 |            | 1   |  | <u> </u>   |             |   |          |        |            |             | <u></u>  |
| Natural Brush/Forest   | 101     |                 | 991010010  | 1   | 1  |  |             |   |          | 0.2    | ibs        |             | Scrap    |
| Natural Brush/Forest   | 101     |                 | 991010020  |   | <del>                                     </del> |  |             |   |          |        | ibs        |             | Fragment |
| Natural Brush/Forest   | 103     |                 | 991030010  |   | <del></del>                                      |  |             |   |          | 0.25   | lbs        |             | Fragment |
| Natural Brush/Forest   | 103     |                 |            | <del>' </del>                                     | 1  |  | <u> </u>    | 1                                       |          |        |            |             |          |
| Natural BrustyForest   | 103     |                 |            | 11  | † · · · · · · · · · · · · · · · · · · ·          | 1  |             | 1                                       |          | 0.9    | 5 lbs      |             | Scrap    |
| Natural Brush/Forest   | 103     |                 |            | 1   | <del>                                     </del> | 1  |             | - · · · · · · · · · · · · · · · · · · · |          |        |            |             |          |
| Natural Brush/Forest   | 103     |                 |            | 1   | 1  | <del>                                     </del>   |             | <u> </u>                                |          |        | I          |             |          |
| Natural BrustyForest   | 103     |                 |            | <del>                                     </del>  | <del>1                                    </del> | <u> </u>   |             |   |          |        |            |             |          |
| Natural Brust/Forest   | 217     |                 |            | +   | <del> </del>                                     | <del> </del>                                       |             |   |          |        | 1          |             |          |
| Natural Brush/Forest   |         |                 |            | +   | +  |  |             | 1                                       | 1        |        |            |             |          |
| Natural Brush/Forest   | 217     |                 |            | +   | +  | <del> </del>                                       |             |   | 1        |        |            | <u> </u>    |          |
|                        | 217     |                 |            | 11  | <del>                                     </del> | <del>                                       </del> |             | <del></del>                             | 1        | 0.2    | 5 lbs      | <u> </u>    | Fragment |
| Natural Brush/Forest   |         |                 | 992170050  |   | +  | · · · · · · · · · · · · · · · · · · ·              | <del></del> |   | +        |        | 5 lbs      | 1           | Fragment |
| Natural Brush/Forest   | 217     | <u>/  1/00:</u> | ABS 110000 | <u> </u>  | .I   | <u> </u>   |             |   | 1.       |        | <u></u>    |             |          |

|                       |          |            |            |              |          |   |  |   | DEPTH    |             | V1004000        |  |                                       |
|-----------------------|----------|------------|------------|--------------|----------|---|--|---|----------|-------------|-----------------|--|---------------------------------------|
| SECTORS NAME          |          | ANOMALY ID | OBJECT ID  | EASTING      | NORTHING | DESCRIPTION                             | COMMENTS   |   |          | WEIGHT      | WEIGHT<br>UNITS | EXPLOSIVE  | OBJ NAME                              |
| Natural Brush/Forest  | 218      |            |            | l . <u>.</u> |          |   |  |   |          | T           |                 | T  | · · · · · · · · · · · · · · · · · · · |
| Natural BrustyForest  | 216      |            | 9921600201 |              |          |   |  |   |          | 0.25        | lha.            | <del>                                     </del> | Fragment                              |
| Natural Brush/Forest  | 218      |            |            |              | I        |   |  |   | _        |             |                 | <del>                                     </del> | r implication                         |
| Natural Brush/Forest  | 218      |            | L          |              |          |   |  |   |          |             | <del></del>     |  |                                       |
| Natural Brush/Forest  | 218      | 99218005   | 9921500501 |              |          |   |  |   |          | 0.25        |                 |  | Fragment                              |
| Natural Brush/Forest  | 218      | 99218006   |            |              |          |   | -  |   |          |             |                 | <del> </del>                                     | i jednicist                           |
| Natural Brush/Forest  | 218      |            | 9921800701 |              |          |   |  |   |          | 0.25        | lhe.            |  | Fragment                              |
| Natural Brust/Forest  | 218      | 99218008   | 9921800801 |              |          |   |  |   |          | 0.25        | -               | <del>                                     </del> |                                       |
| Natural Brush/Forest  | 219      | 99219001   |            |              |          |   |  |   |          | V.23        |                 | <del> </del>                                     | Fragment                              |
| Natural Brush/Forest  | 219      | 99219002   |            |              |          |   |  |   |          |             |                 | <del>                                     </del> |                                       |
| Natural Brush/Forest  | 219      | 99219003   | 9921900301 |              |          |   |  |   |          | 0.5         | iba .           | <del>                                     </del> | Canada                                |
| Natural Brush/Forest  | 219      | 99219004   | 9921900401 |              |          |   |  |   |          | 0.5         |                 |  | Fragment                              |
| Natural BruslyForest  | 219      | 99219005   | 9921900501 |              | -        |   |  |   |          | 0.25        |                 |  | Fragment                              |
| Natural BrustyForest  | 219      |            | 9921900601 |              |          | ·                                       |  |   |          | 0.25        |                 | <del>                                     </del> | Fragment                              |
| Natural Brush/Forest  | 220      | 99220001   | 9922000101 |              |          | ·                                       |  |   |          | 0.25        |                 |  | Scrap                                 |
| Natural Brush/Forest  | 220      |            | 9922000201 |              |          |   | · · · · · · · · · · · · · · · · · · ·              |   | <u> </u> | 0.25        |                 |  | Fragment                              |
| Natural Brush/Forest  | 220      |            | 9922000301 |              |          |   |  |   |          | 0.5         |                 |  | Fragment                              |
| Natural Brush/Forest  | 220      |            |            |              |          |   |  |   |          | 0.5         | 106             |  | Fragment                              |
| Vatural BrusivForest  | 232      | 99232001   |            |              |          |   |  |   |          |             |                 |  |                                       |
| fatural Brush/Forest  | 232      |            | 9923200201 |              |          |   |  | - |          | <del></del> |                 |  |                                       |
| latural Brush/Forest  | 232      | 99232003   |            |              | -        | · · · · · · · · · · · · · · · · · · ·   |  |   |          | 0.5         | DE              |  | Fragment                              |
| latural Brush/Forest  | 232      |            |            | _            |          |   |  |   |          |             |                 |  |                                       |
| Valural Brush/Forest  | 232      | 99232005   | 9923200501 |              |          | - · · · · · · · · · · · · · · · · · · · | <del>-</del>                                       |   |          |             |                 |  |                                       |
| latural Brush/Forest  | 232      | 99232006   | 9923200601 |              |          |   |  |   |          | 0.25        |                 |  | Fragment                              |
| tatural Brush/Forest  | 232      |            |            |              |          | · -                                     |  |   |          | 0.5         |                 |  | Fragment                              |
| iatural BrusiviForest | 232      | 99232008   | 000000.01  |              |          |   |  |   |          | 0.75        | Ibs             |  | Fragment                              |
| latural Brush/Forest  | 232      | 99232009   |            |              |          | <u> </u>                                |  |   |          |             | _               |  |                                       |
| letural Brush/Forest  | 232      |            | 9923201001 |              | -        |   |  |   |          |             |                 |  |                                       |
| Inetarm               | 73       |            | 9907300101 |              |          |   |  |   |          | 0.5         |                 |  | Fragment                              |
| hetarm                | 73       |            | 9907300201 |              |          | ·                                       |  |   |          | 0.25        | -               |  | Fragment                              |
| inetarm               | 73       |            |            |              |          | Pina had                                |  |   |          | 0.5         | lbe .           |  | Fragment                              |
| inetarm               | 73       |            | 9907300401 |              |          | Fuze body                               |  |   |          |             |                 |  | Fragment                              |
| inefam                | 73       |            |            |              |          | <u> </u>                                |  |   |          | 0.25        |                 |  | Fragment                              |
| nefarm                | 73       |            | 9907300601 |              |          |   |  |   |          | 0.25        |                 |  | Fragment                              |
| hefarm                | 73       | 99073007   | -901300001 |              |          |   |  |   |          | 0.25        | be              |  | Fragment                              |
| inefarm               | 75<br>76 |            | 0007000455 |              |          |   |  |   |          |             |                 |  |                                       |
| inefarm               | 76       |            | 9907600101 |              |          |   |  |   |          | 0.25        | bs              |  | Fragment                              |
|                       |          | 99076002   | 9907600201 |              |          | <u>.</u>                                |  |   |          | 0.5         | lbs             |  | Fragment                              |
| inefarm<br>Inefarm    | 78       | 99076003   | 9907600301 |              |          |   |  |   |          | 0.25        | lbs             |  | Fragment                              |
|                       | 76       | 99076004   | 9907600401 |              |          |   |  |   |          | 0.25        | lbs             |  | Fragment                              |
| inefarm               | 76       |            | 9907600501 |              |          |   |  |   |          | 0.25        | bs              | 1  | Fragment                              |
| Inefarm               | 76       |            | 9907600801 |              |          |   |  |   |          | 0.25        |                 |  | Fragment                              |
| etural Brush/Forest   | 214      | 99214031   |            |              |          |   |  |   |          |             |                 |  |                                       |
| atural Brush/Forest   | 214      |            | 9921403001 |              |          |   |  |   |          | 0.25        | ibs             | <del>  -  </del>                                 | Fragment                              |
| ninvestigated Area    | 74       | 99074001   |            |              |          |   |  |   |          |             |                 |  | · · · · · · · · · · · · · · · · · · · |
| ninvestigated Area    | 74       | 99074002   |            |              |          |   |  |   |          |             |                 | <del>                                     </del> | -                                     |
| ninvestigated Area    | 74       | 99074003   |            |              |          |   |  |   |          |             |                 | <del> </del>                                     |                                       |
| ninvestigated Area    | 74       | 99074004   |            |              |          |   |  |   |          |             | -               | <del></del>                                      |                                       |
| Intrivestigated Area  | 74       | 99074005   |            |              | i        |   | · · <del>- · · · · · · · · · · · · · · · · ·</del> |   |          |             | <u> </u>        | <del>]                                    </del> |                                       |





| <u>-</u>             |         |            |            | -        |  |             |          | -   | DEPTH        |  | WEIGHT   |   |              |
|----------------------|---------|------------|------------|----------|--|-------------|----------|---|--------------|--|--|---|--------------|
| SECTORS NAME         | GRID ID | ANOMALY ID | OBJECT ID  | EASTING  | NORTHING                                       | DESCRIPTION | COMMENTS | DEPTH   | UNITS        | WEIGHT   | UNITS  | EXPLOSIVE   | OBJ NAME     |
| Uninvestigated Area  | 74      |            |            |          |  |             |          | <b>-</b>  |              | 1  |  | <del> </del>                                      |              |
| Uninvestigated Area  | 74      | 99074007   |            | <u>1</u> |  |             |          | <del></del>                                       |              |  |  | <b> </b>  |              |
| Uninvestigated Area  | 74      |            |            | <u> </u> | <u> </u>                                       |             |          | <u> </u>  |              | ļ  |  | <del> </del>                                      |              |
| Uninvestigated Area  | 74      |            |            |          |  |             |          | +-  | <del> </del> | <b>├</b>   |  |   | -            |
| Uninvestigated Area  | 75      | 99075002   | _          |          |  | <u> </u>    |          | <del>                                      </del> | <b>├</b>     |  |  | <del>                                      </del> |              |
| Uninvestigated Area  | 75      |            |            |          | <u> </u>                                       |             |          | +   | -            | <del> </del>                                     |  | <b>.</b>  | <del></del>  |
| Uninvestigated Area  | 75      | 99075004   |            |          | <u>1</u>                                       |             |          |   | <del> </del> | <del> </del>                                     |  | <del> </del>                                      | <b></b>      |
| Uninvestigated Area  | 160     |            |            |          |  |             |          |   | ļ            | ╄  |  | <del>                                     </del>  |              |
| Uninvestigated Area  | 160     | 99160002   |            |          |  |             | <u> </u> |   | 1            | <del> </del>                                     | <u> </u>   | <del> </del>                                      | <del></del>  |
| Natural Brush/Forest | 284     | 99284001   |            | <u> </u> | <u> </u>                                       |             |          | <b>↓</b>  |              | <del> </del>                                     | <del>                                     </del> | 1   | <del> </del> |
| Natural Brush/Forest | 284     | 99284002   |            |          | <u> </u>                                       |             |          | 1.—   | —.           | <b> </b>   |  | <u> </u>  | <del></del>  |
| Natural Brush/Forest | 284     | 99284003   |            | Ι        |  |             |          | <del></del>                                       | <b>_</b>     |  |  | <b> </b>  |              |
| Natural Brush/Forest | 284     | 99264004   |            |          | <u> </u>                                       |             |          |   | <b>_</b>     | <del> </del>                                     |  | <u> </u>  |              |
| Natural Brush/Forest | 284     |            |            |          | <u>l .                                    </u> |             |          | 1   | <u> </u>     | <del>↓ —</del>                                   |  | <del> </del>                                      |              |
| Natural Brush/Forest | 284     | 99284006   |            |          | <u> </u>                                       |             |          |   | ╄            | <del> </del> -                                   |  | <del> </del>                                      | ,            |
| Natural Brush/Forest | 284     | 99284007   |            |          | <u> </u>                                       |             | <u></u>  |   | <del> </del> | +  | <del>\</del>                                     |   | ļ            |
| Natural Brush/Forest | 284     | 99284008   |            |          |  | <u> </u>    |          | <del>- </del>                                     | ↓            | <del> </del>                                     | -  | · <del> </del> -                                  | <del>}</del> |
| Natural Brush/Forest | 284     |            |            |          |  | <u> </u>    |          | <u> </u>  | <b>ļ.</b>    | <del> </del>                                     |  | <del>}</del>                                      | <del> </del> |
| Natural Brush/Forest | 284     |            |            |          |  |             |          |   | <b></b>      |  | -  | <del> </del>                                      | Soil Layer   |
| Natural Brush/Forest | 284     |            | 9928401101 | 1        | 1  | <u> </u>    |          |   | <del> </del> | <del> </del>                                     | $\vdash$   | <del> </del>                                      | OUR LETYER   |
| Natural Brush/Forest | 284     | 99284012   |            | 1        |  | <u> </u>    |          | <b></b>   | <b>_</b>     | ļ .—   | <b>├</b> ──                                      | ļ <u> </u>  | <del> </del> |
| Natural Brush/Forest | 226     |            |            |          |  |             |          |   |              | <b>}</b>   | <del> </del>                                     | <del> </del>                                      | <del> </del> |
| Natural BrustyForest |         |            |            |          |  | <u> </u>    |          |   | ₩            | <b>-</b>   | <del> </del>                                     | <del> </del>                                      | Call Laures  |
| Natural Brush/Forest |         |            | 9922600301 | t T      |  | <u> </u>    |          |   | <del> </del> | <del>                                     </del> | -  | <del> </del>                                      | Soil Layer   |
| Natural Brush/Forest |         | 99282001   | 9928200101 | i        |  |             |          |   | 1            |  | ibs  |   | Scrap        |
| Natural Brush/Forest | 94      | 99094013   | 9909401301 | 1        | 1  |             |          |   | <u> </u>     | 0.5  | lbs  |   | Fragment     |
|                      | 1       | <u> </u>   |            | 1        | T.   |             |          | <u></u>   | <u> </u>     |  |  | 1   | <u> </u>     |

**GEOPHYSICAL INVESTIGATION DATA** 

|         | GEOPHYSIC        | AL         |        |              | POL      | YCORDER REA | ADING (mV)  |
|---------|------------------|------------|--------|--------------|----------|-------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | В            | з воттом | PEAK TOP    | PEAK BOTTOM |
|         |                  |            |        | <del> </del> | _        |             |             |
| 1/8/97  | 46               | 99046001   |        | 2            | 4        | 11          | 12          |
|         |                  | 99046002   |        | 5            | 6        | 9           | 10          |
|         |                  | 99046003   |        | 3            | 4        | 8           | 9           |
|         |                  | 99046004   |        |              |          |             |             |
|         |                  | 99046005   |        | 2            | 4        | 10          | 12          |
|         |                  | 99046006   |        | 5            | 6        | 9           | 11          |
|         |                  | 99046007   |        | 2            | 4        | 9           | 10          |
|         |                  | 99046008   |        | 7            | 6        | 75          | 82          |
|         |                  | 99046009   |        | 5            | 7        | 9           | 10          |
|         |                  | 99046010   |        | 3            | 5        | 9           | 11          |
|         | Total Grids/Day: | 10         |        |              |          |             |             |
| 1/10/97 | 3                | 99003001   |        | 2            | 3        | . 6         | 8           |
|         | _                | 99003002   |        | 2            | 3        | 11          | 12          |
|         |                  | 99003003   |        | 2            | 3        | 5           | 8           |
|         |                  | 99003004   |        | 2            | 2        | 8           | 10          |
|         |                  | 99003005   |        | 4            | 4        | 8           | 10          |
|         |                  | 99003006   |        | 3            | 3        | 52          | 50          |
|         |                  | 99003007   |        | 3            | 3        | 8           | 12          |
|         |                  | 99003008   |        | 1            | 1        | 6           | 8           |
|         |                  | 99003009   |        | 5            | 6        | 6           | 8           |
|         | 6                | 99006001   |        | 1            | 2        | 7           | 4           |
|         | J                | 99006002   |        | 2            | 3        | 8           | 11          |
|         |                  | 99006003   |        | 2            | 0        | 16          | 19          |
|         |                  | 99006004   |        | 3            | 5        | 9           | 10          |
|         |                  | 99006005   |        | 0            | 1        | 7           | 10          |
|         |                  | 99006006   |        | 1            | 3        | 8           | 10          |
|         | 24               | 99024001   |        | 5            | 5        | 16          | 20          |
|         | 25               | 99025001   |        | 8            | 6        | 17          | 17          |
|         | 20               | 99025002   |        | 8            | 7        | 32          | 37          |
|         |                  | 99025003   |        | 1            | 11       | 19          | 21          |
|         |                  | 99025004   | •      | 2            | 2        | 11          | 14          |
|         |                  | 99025005   |        | 9            | 9        | 12          | 13          |
|         |                  | 99025006   |        | 9            | 9        | 12          | 13          |
|         |                  | 99025007   |        | 9            | 9        | 13          | 13          |
|         |                  | 99025008   |        | 1            | 13       | 30          | 32          |
|         |                  | 99025009   |        | 7            | 7        | 19          | 20          |
|         |                  | 99025010   |        | 3            | 5        | 14          | 17          |
|         |                  | 99025011   |        | 6            | 7        | 10          | 12          |
|         |                  | 99025012   |        | 4            | ,<br>5   | 12          | 14          |
|         |                  | 99025013   |        | 5            | 2        | 11          | 14          |
|         |                  | 99025014   |        | 5<br>5       | 2        | 12          |             |
|         |                  | 33023014   |        | o            | 2        | 12          | 14          |

### **GEOPHYSICAL INVESTIGATION ORDNANCE OPERABLE UNIT (OOU) 6**

Former Camp Croft

|      | GEOPHYSICAL      |            | POLYCORDER READING (mV) |                  |    |             |  |  |
|------|------------------|------------|-------------------------|------------------|----|-------------|--|--|
| DATE | GRID ID          | ANOMALY ID | BG TOP                  | <b>BG BOTTOM</b> |    | PEAK BOTTOM |  |  |
|      |                  | 99025015   | 2                       | 4                | 21 | 22          |  |  |
|      |                  | 99025016   | 6                       | 6                | 8  | 11          |  |  |
|      |                  | 99025017   | 5                       | 6                | 17 | 17          |  |  |
|      |                  | 99025018   | 5                       | 6                | 19 | 20          |  |  |
|      |                  | 99025019   | 5                       | 5                | 20 | 27          |  |  |
|      |                  | 99025020   | 2                       | 3                | 18 | 17          |  |  |
|      |                  | 99025021   | 5                       | 5                | 16 | 18          |  |  |
|      |                  | 99025022   | 5                       | 5                | 16 | 17          |  |  |
|      |                  | 99025023   | 4                       | 6                | 11 | 14          |  |  |
|      |                  | 99025024   | 2                       | 2                | 11 | 12          |  |  |
|      |                  | 99025025   | 9                       | 9                | 9  | 11          |  |  |
|      |                  | 99025026   | 9                       | 9                | 19 | 17          |  |  |
|      |                  | 99025027   | 5                       | 6                | 20 | 21          |  |  |
|      |                  | 99025028   | 3                       | 5                | 11 | 12          |  |  |
|      |                  | 99025029   | 3                       | 5                | 19 | 21          |  |  |
|      |                  | 99025030   | 3                       | 5                | 21 | 23          |  |  |
|      | 122              | 99122001   | 5                       | 5                | 9  | 11          |  |  |
|      |                  | 99122002   | 5                       | 5                | 11 | 12          |  |  |
|      |                  | 99122003   | 9                       | 6                | 16 | 17          |  |  |
|      |                  | 99122004   | 5                       | 6                | 16 | 17          |  |  |
|      |                  | 99122005   | 5                       | 6                | 9  | 10          |  |  |
|      |                  | 99122006   | 6                       | 5                | 10 | 10          |  |  |
|      |                  | 99122007   | 6                       | 5                | 9  | 11          |  |  |
|      |                  | 99122008   | 5                       | 4                | 11 | 11          |  |  |
|      |                  | 99122009   | 5                       | 5                | 11 | 12          |  |  |
|      |                  | 99122010   | 5                       | 6                | 8  | 8           |  |  |
|      | 179              | 99179001   | 5                       | 5                | 22 | 24          |  |  |
|      |                  | 99179002   | 5                       | 5                | 13 | 11          |  |  |
|      |                  | 99179003   | 6                       | 6                | 11 | 12          |  |  |
|      |                  | 99179004   | 6                       | 6                | 12 | 15          |  |  |
|      |                  | 99179005   | 6                       | 6                | 12 | 13          |  |  |
|      |                  | 99179006   | 7                       | 7                | 15 | 8           |  |  |
|      |                  | 99179007   | 5                       | 6                | 13 | 14          |  |  |
|      |                  | 99179008   | 5                       | 5                | 11 | 12          |  |  |
|      |                  | 99179009   | 6                       | 6                | 15 | 15          |  |  |
|      |                  | 99179010   | 6                       | 7                | 13 | 14          |  |  |
|      |                  | 99179011   | 6                       | 6                | 11 | 11          |  |  |
|      |                  | 99179012   | 6                       | 6                | 11 | 12          |  |  |
|      |                  | 99179013   | 6                       | 6                | 14 | 14          |  |  |
|      |                  | 99179014   | 9                       | 9                | 14 | 15          |  |  |
|      |                  | 99179015   | 9                       | 9                | 12 | 12          |  |  |
|      | Total Grids/Day: | 6          |                         |                  |    |             |  |  |

|         | GEOPHYSICAL |            |        | POLYCORDER F | READING (mV) |             |
|---------|-------------|------------|--------|--------------|--------------|-------------|
| DATE    | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
| 1/13/97 | 57          | 99057001   | 8      | 8            | 21           | 17          |
|         |             | 99057002   | 8      | 9            | 20           | 18          |
|         |             | 99057003   | 6      | 6            | 21           | 20          |
|         |             | 99057004   | 9      | 9            | 17           | 17          |
|         |             | 99057005   | 11     | 11           | 23           | 20          |
|         |             | 99057006   | 8      | 8            | 20           | 19          |
|         |             | 99057007   | 5      | 5            | 26           | 23          |
|         |             | 99057008   | 17     | 17           | 30           | 30          |
|         |             | 99057009   | 4      | 4            | 14           | 12          |
|         |             | 99057010   | 9      | 9            | 17           | 14          |
|         | 58          | 99058001   | 7      | 8            | 14           | 14          |
|         |             | 99058002   | 8      | 10           | 25           | 29          |
|         |             | 99058003   | 9      | 9            | 16           | 18          |
|         |             | 99058004   | 8      | 10           | 19           | 15          |
|         |             | 99058005   | 9      | 9            | 22           | 24          |
|         |             | 99058006   | 6      | 6            | 24           | 25          |
|         |             | 99058007   | 8      | 9            | 21           | 22          |
|         | 59          | 99059001   | 11     | 11           | 20           | 18          |
|         |             | 99059002   | 15     | 15           | 20           | 20          |
|         |             | 99059003   | 8      | 8            | 26           | 29          |
|         |             | 99059004   | 9      | 9            | 22           | 24          |
|         |             | 99059005   | 10     | 12           | 19           | 20          |
|         |             | 99059006   | 8      | 8            | 20           | 23          |
|         |             | 99059007   | 11     | 11           | 18           | 19          |
|         |             | 99059008   | 8      | 8            | 17           | 17          |
|         |             | 99059009   | 8      | 8            | 18           | 20          |
|         |             | 99059010   | 12     | 12           | 36           | 38          |
|         |             | 99059011   | 9      | 9            | 18           | 20          |
|         |             | 99059012   | 9      | 9            | 26           | 28          |
|         |             | 99059013   | 11     | 11           | 17           | 18          |
|         |             | 99059014   | 9      | 9            | 17           | 18          |
|         |             | 99059015   | 9      | 9            | 21           | 21          |
|         |             | 99059016   | 8      | 8            | 26           | 29          |
|         |             | 99059017   | 10     | 10           | 17           | 18          |
|         |             | 99059018   | 9      | 9            | 18           | 20          |
|         |             | 99059019   | 11     | 11           | 20           | 20          |
|         |             | 99059020   | 11     | 11           | 23           | 23          |
|         |             | 99059021   | 8      | 8            | 23           | 23          |
|         | 60          | 99060001   | 8      | 9            | 18           | 16          |
|         |             | 99060002   | 9      | 11           | 15           | 16          |
|         |             | 99060003   | 11     | 10           | 18           | 20          |
|         |             | 99060004   | 5      | 7            | 12           | 14          |
|         |             | 99060005   | 9      | 8            | 14           | 14          |

|      | GEOPHYSICAL |                      |        | POLYCORDER I | READING (mV) | •           |
|------|-------------|----------------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID           | BG TOP | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
|      | ·           | 99060006             | 8      | 8            | 14           | 15          |
|      |             | 99060007             | 10     | 10           | 19           | 18          |
|      |             | 99060008             | 11     | 11           | 18           | 17          |
|      |             | 99060009             | 8      | 8            | 15           | 16          |
|      |             | 99060010             | 9      | 10           | 23           | 25          |
|      |             | 99060011             | 12     | 13           | 21           | 24          |
|      |             | 99060012             | 11     | 12           | 21           | 21          |
|      |             | 99060013             | 10     | 10           | 21           | 24          |
|      |             | 99060014             | 13     | 14           | 20           | 20          |
|      |             | 99060015             | 11     | 12           | 23           | 25          |
|      |             | 99060016             | 15     | 17           | 43           | 43          |
|      |             | 99060017             | 12     | 12           | 23           | 22          |
|      |             | 99060018             | 12     | 12           | 24           | 23          |
|      | 65          | 99065001             | 17     | 15           | 21           | 21          |
|      |             | 99065002             | 14     | 14           | 18           | 19          |
|      |             | 99065003             | 12     | 11           | 18           | 17          |
|      |             | 99065004             | 12     | 11           | 21           | 23          |
|      |             | 99065005             | 12     | 12           | 18           | 18          |
|      |             | 99065006             | 16     | 14           | 18           | 18          |
|      |             | 99065007             | 15     | 14           | 21           | 20          |
|      |             | 99065008             | 16     | 14           | 17           | 15          |
|      |             | 99065009             | 18     | 17           | 21           | 21          |
|      | 66          | 99066001             | 9      | 9            | 17           | 17          |
|      |             | 99066002             | 11     | 11           | 17           | 17          |
|      |             | 99066003             | 11     | 10           | 19           | 19          |
|      |             | 99066004             | 8      | 9            | 25           | 30          |
|      |             | 99066005             | 11     | 11           | 19           | 21          |
|      |             | 99066006             | 8      | 8            | 14           | 15          |
|      |             | 99066007             | 11     | 11           | 20           | 20          |
|      |             | 99066008             | 12     | 12           | 30           | 26          |
|      |             | 99066009             | 11     | 9            | 20           | 18          |
|      |             | 99066010             | 10     | 8            | 118          | 111         |
|      |             | 99066011             | 9      | 10           | 17           | 18          |
|      |             | 99066012             | 6      | 6            | 20           | 20          |
|      | 67          | 99067001             | 9      | 8            | 20           | 20          |
|      |             | 99067002             | 11     | 9            | 26           | 28          |
|      |             | 99067003             | 9      | 9            | 17           | 18          |
|      |             | 99067004             | 9      | 9            | 23           | 20          |
|      |             | 99067005             | 8      | 8            | 26           | 29          |
|      |             | 99067006             | 14     | 15           | 29           | 32          |
|      |             | 99067007             | 12     | 13           | 20           | 20          |
|      |             |                      |        |              |              |             |
|      |             | 99067008<br>99067009 | 9<br>9 | 9<br>9       | 24<br>27     | 20          |

|      | GEOPHYSICAL |            |        | POLYCORDER F | READING (mV) |             |
|------|-------------|------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    | -            | PEAK BOTTOM |
|      |             | 99067010   | 10     | 10           | 21           | 23          |
|      |             | 99067011   | 15     | 13           | 23           | 26          |
|      | 68          | 99068001   | 17     | 15           | 41           | 43          |
|      |             | 99068002   | 13     | 14           | 23           | 22          |
|      |             | 99068003   | 18     | 17           | 26           | 24          |
|      |             | 99068004   | 14     | 14           | 20           | 20          |
|      |             | 99068005   | 11     | 11           | 26           | 29          |
|      | 85          | 99085001   | 7      | 10           | 11           | 14          |
|      |             | 99085002   | 8      | 11           | 16           | 16          |
|      |             | 99085003   | 9      | 11           | 131          | 121         |
|      |             | 99085004   | 13     | 14           | 22           | 25          |
|      |             | 99085005   | 10     | 13           | 17           | 20          |
|      |             | 99085006   | 8      | 11           | 20           | 23          |
|      |             | 99085007   | 9      | 11           | 20           | 22          |
|      |             | 99085008   | 10     | 13           | 22           | 25          |
|      |             | 99085009   | 10     | 13           | 22           | 25          |
|      |             | 99085010   | 9      | 11           | 20           | 23          |
|      |             | 99085011   | 10     | 12           | 32           | 35          |
|      |             | 99085012   | 9      | 14           | 22           | 23          |
|      |             | 99085013   | 9      | 11           | 20           | 23          |
|      |             | 99085014   | 11     | 13           | 20           | 23          |
|      |             | 99085015   | 14     | 15           | 23           | 26          |
|      |             | 99085016   | 11     | 14           | 20           | 23          |
|      |             | 99085017   | 10     | 14           | 25           | 26          |
|      |             | 99085018   | 13     | 14           | 23           | 26          |
|      |             | 99085019   | 14     | 16           | 20           | 23          |
|      | 86          | 99086001   | 7      | 10           | 20           | 23          |
|      |             | 99086002   | 7      | 9            | 31           | 34          |
|      |             | 99086003   | 7      | 10           | 16           | 19          |
|      |             | 99086004   | 7      | 11           | 17           | 21          |
|      |             | 99086005   | 5      | 9            | 15           | 19          |
|      |             | 99086006   | 9      | 13           | 17           | 21          |
|      |             | 99086007   | 7      | 9            | 20           | 25          |
|      |             | 99086008   | 8      | 9            | 125          | 124         |
|      |             | 99086009   | 5      | 9            | 29           | 31          |
|      |             | 99086010   | 7      | 10           | 22           | 24          |
|      | 87          | 99087001   | 8      | 10           | 18           | 21          |
|      |             | 99087002   | 8      | 10           | 27           | 31          |
|      |             | 99087003   | 6      | 9            | 35           | 39          |
|      |             | 99087004   | 6      | 9            | 27           | 29          |
|      |             | 99087005   | 6      | 9            | 27           | 29          |
|      |             | 99087006   | 11     | 13           | 20           | 23          |
|      | 88          | 99088001   | 10     | 13           | 21           | 23          |

|         | GEOPHYSICAL      |            |        | POLYCORDER I     | READING (mV) | 1           |
|---------|------------------|------------|--------|------------------|--------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
|         |                  | 99088002   | 15     | 15               | 26           | 27          |
|         |                  | 99088003   | 7      | 8                | 32           | 34          |
|         |                  | 99088004   | 10     | 11               | 20           | 21          |
|         |                  | 99088005   | 10     | 11               | 32           | 32          |
|         |                  | 99088006   | 8      | 10               | 22           | 24          |
|         |                  | 99088007   | 6      | 10               | 22           | 23          |
|         |                  | 99088008   | 9      | 11               | 21           | 24          |
|         |                  | 99088009   | 11     | 13               | 32           | 35          |
|         | Total Grids/Day: | 12         |        |                  |              |             |
| 1/14/97 | 18               | 99018001   | 3      | 6                | 7            | 11          |
|         |                  | 99018002   | 4      | 7                | 10           | 12          |
|         | 19               | 99019001   | 1      | 4                | 14           | 12          |
|         | 20               | 99020001   | 1      | 4                | 7            | 10          |
|         |                  | 99020002   | 2      | 5                | 11           | 15          |
|         | 29               | 99029001   | 9      | 8                | 24           | 26          |
|         |                  | 99029002   | 9      | 8                | 21           | 21          |
|         |                  | 99029003   | 9      | 8                | 28           | 30          |
|         |                  | 99029004   | 8      | 8                | 20           | 21          |
|         |                  | 99029005   | 9      | 8                | 28           | 22          |
|         |                  | 99029006   | 8      | 9                | 29           | 30          |
|         |                  | 99029007   | 12     | 12               | 19           | 20          |
|         |                  | 99029008   | 10     | 10               | 22           | 23          |
|         |                  | 99029009   | 6      | 8                | 18           | 21          |
|         |                  | 99029010   | 9      | 11               | 35           | 39          |
|         |                  | 99029011   | 9      | 9                | 18           | 19          |
|         |                  | 99029012   | 14     | 14               | 17           | 19          |
|         |                  | 99029013   | 12     | 12               | 32           | 35          |
|         |                  | 99029014   | 7      | 9                | 25           | 26          |
|         |                  | 99029015   | 7      | 9                | 33           | 33          |
|         |                  | 99029016   | 11     | 11               | 18           | 24          |
|         |                  | 99029017   | 6      | 6                | 31           | 29          |
|         |                  | 99029018   | 6      | 6                | 22           | 26          |
|         |                  | 99029019   | 14     | 14               | 30           | 31          |
|         |                  | 99029020   | 14     | 15               | 21           | 22          |
|         |                  | 99029021   | 9      | 11               | 35           | 37          |
|         |                  | 99029022   | 14     | 14               | 24           | 25          |
|         |                  | 99029023   | 6      | 5                | 24           | <b>26</b>   |
|         |                  | 99029024   | 17     | 15               | 34           | 35          |
|         |                  | 99029025   | 5      | 5                | 18           | 20          |
|         | 30               | 99030001   | 5      | 5                | 11           | 14          |
|         |                  | 99030002   | 5      | 5                | 38           | 40          |
|         |                  | 99030003   | 8      | 9                | 17           | 17          |

|      | GEOPHYSICAL | POLYCORDER READING (mV) |        |           |    |             |  |
|------|-------------|-------------------------|--------|-----------|----|-------------|--|
| DATE | GRID ID     | ANOMALY ID              | BG TOP | BG BOTTOM |    | PEAK BOTTOM |  |
|      |             | 99030004                | 8      | 8         | 18 | 17          |  |
|      |             | 99030005                | 8      | 7         | 22 | 27          |  |
|      |             | 99030006                | 2      | 2         | 17 | 17          |  |
|      |             | 99030007                | 5      | 5         | 24 | 24          |  |
|      |             | 99030008                | 8      | 8         | 36 | 38          |  |
|      |             | 99030009                | 3      | 4         | 18 | 20          |  |
|      |             | 99030010                | 8      | 8         | 23 | 22          |  |
|      |             | 99030011                | 11     | 11        | 19 | 20          |  |
|      |             | 99030012                | 8      | 9         | 24 | 27          |  |
|      |             | 99030013                | 10     | 11        | 20 | 21          |  |
|      |             | 99030014                | 5      | 6         | 19 | 20          |  |
|      |             | 99030015                | 8      | 8         | 23 | 23          |  |
|      |             | 99030016                | 8      | 8         | 24 | 24          |  |
|      |             | 99030017                | 7      | 7         | 22 | 23          |  |
|      |             | 99030018                | 6      | 6         | 19 | 19          |  |
|      |             | 99030019                | 6      | 6         | 19 | 20          |  |
|      |             | 99030020                | 7      | 11        | 32 | 35          |  |
|      |             | 99030021                | 4      | 4         | 30 | 32          |  |
|      |             | 99030022                | 4      | 4         | 18 | 18          |  |
|      |             | 99030023                | 8      | 8         | 17 | 17          |  |
|      |             | 99030024                | 11     | 12        | 32 | 35          |  |
|      |             | 99030025                | 9      | 9         | 24 | 26          |  |
|      |             | 99030026                | 9      | 9         | 18 | 20          |  |
|      | 31          | 99031001                | 19     | 21        | 31 | 33          |  |
|      |             | 99031002                | 17     | 18        | 33 | 35          |  |
|      |             | 99031003                | 16     | 17        | 27 | 30          |  |
|      |             | 99031004                | 11     | 14        | 33 | 36          |  |
|      |             | 99031005                | 12     | 14        | 25 | 27          |  |
|      |             | 99031006                | 16     | 17        | 29 | 29          |  |
|      |             | 99031007                | 16     | 17        | 31 | 33          |  |
|      |             | 99031008                | 18     | 19        | 35 | 37          |  |
|      |             | 99031009                | 17     | 17        | 30 | 32          |  |
|      |             | 99031010                | 17     | 18        | 41 | 42          |  |
|      |             | 99031011                | 14     | 15        | 37 | 40          |  |
|      |             | 99031012                | 12     | 14        | 29 | 29          |  |
|      | 32          | 99032001                | 3      | 4         | 21 | 22          |  |
|      |             | 99032002                | 8      | 8         | 20 | 20          |  |
|      |             | 99032003                | 8      | 8         | 27 | 27          |  |
|      |             | 99032004                | 6      | 6         | 21 | 21          |  |
|      |             | 99032005                | 6      | 6         | 26 | 28          |  |
|      |             | 99032006                | 8      | 8         | 17 | 20          |  |
|      |             | 99032007                | 8      | 8         | 24 | 26          |  |
|      |             | 99032008                | 15     | 15        | 28 | 30          |  |

|      | GEOPHYSICAL |            |        | POLYCORDER F |    |             |
|------|-------------|------------|--------|--------------|----|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    |    | PEAK BOTTOM |
|      |             | 99032009   | 15     | 15           | 23 | 23          |
|      |             | 99032010   | 15     | 15           | 25 | 27          |
|      |             | 99032011   | 11     | 11           | 21 | 21          |
|      |             | 99032012   | 10     | 11           | 23 | 26          |
|      |             | 99032013   | 7      | 8            | 30 | 34          |
|      |             | 99032014   | 11     | 11           | 20 | 22          |
|      |             | 99032015   | 5      | 6            | 20 | 20          |
|      |             | 99032016   | 5      | 5            | 18 | 20          |
|      |             | 99032017   | 11     | 11           | 24 | 24          |
|      |             | 99032018   | 11     | 11           | 47 | 41          |
|      |             | 99032019   | 4      | 3            | 23 | 23          |
|      |             | 99032020   | 7      | 2            | 28 | 29          |
|      |             | 99032021   | 11     | 11           | 24 | 26          |
|      |             | 99032022   | 9      | 9            | 18 | 20          |
|      |             | 99032023   | 8      | 8            | 18 | 20          |
|      | 33          | 99033001   | 2      | 3            | 11 | 14          |
|      | <b>-</b> -  | 99033002   | 4      | 5            | 14 | 15          |
|      |             | 99033003   | 2      | 3            | 11 | 11          |
|      |             | 99033004   | 4      | 5            | 10 | 11          |
|      |             | 99033005   | 1      | 2            | 12 | 14          |
|      |             | 99033006   | 2      | 3            | 12 | 14          |
|      | 34          | 99034001   | 6      | 8            | 10 | 11          |
|      | •           | 99034002   | 6      | 8            | 32 | 38          |
|      |             | 99034003   | 8      | 9            | 13 | 16          |
|      |             | 99034004   | 8      | 8            | 12 | 14          |
|      |             | 99034005   | 4      | 5            | 14 | 16          |
|      |             | 99034006   | 4      | 5            | 14 | 17          |
|      |             | 99034007   | 4      | 5            | 14 | 17          |
|      |             | 99034008   | 4      | 5            | 10 | 11          |
|      |             | 99034009   | 8      | 9            | 13 | 14          |
|      |             | 99034010   | 4      | 5            | 11 | 12          |
|      |             | 99034011   | 4      | 5            | 11 | 12          |
|      |             | 99034012   | 8      | 8            | 10 | 12          |
|      |             | 99034013   | 5      | 6            | 13 | 15          |
|      |             | 99034014   | 5      | 6            | 12 | 14          |
|      |             | 99034015   | 8      | 8            | 15 | 15          |
|      |             | 99034016   | 6      | 8            | 19 | 21          |
|      |             | 99034017   | 6      | 7            | 16 | 17          |
|      |             | 99034018   | 5      | 6            | 17 | 20          |
|      |             | 99034019   | 5      | 6            | 10 | 12          |
|      |             | 99034020   | 5      | 6            | 14 | 19          |
|      |             | 99034021   | 6      | 8            | 12 | 16          |
|      | 35          | 99035001   | 7      | 6            | 18 | 20          |

|      | GEOPHYSICAL |            |        | POLYCORDER F     | READING (mV) |             |
|------|-------------|------------|--------|------------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
|      | 36          | 99036001   | 5      | 6                | 10           | 12          |
|      |             | 99036002   | 2      | 7                | 14           | 10          |
|      |             | 99036003   | 2      | 4                | 10           | 12          |
|      |             | 99036004   | 4      | 5                | 26           | 30          |
|      |             | 99036005   | 7      | 8                | 23           | 29          |
|      |             | 99036006   | 2      | 3                | 18           | 20          |
|      |             | 99036007   | 2      | 3                | 11           | 12          |
|      |             | 99036008   | 1      | 2                | 39           | 44          |
|      | 61          | 99061001   | 19     | 21               | 26           | 28          |
|      |             | 99061002   | 15     | 17               | 25           | 23          |
|      |             | 99061003   | 13     | 14               | 168          | 151         |
|      |             | 99061004   | 14     | 16               | 27           | 28          |
|      |             | 99061005   | 14     | 16               | 22           | 24          |
|      |             | 99061006   | 18     | 18               | 213          | 205         |
|      |             | 99061007   | 12     | 14               | 28           | 30          |
|      | 62          | 99062001   | 11     | 12               | 24           | 23          |
|      |             | 99062002   | 15     | 16               | 26           | 28          |
|      |             | 99062003   | 8      | 11               | 23           | 26          |
|      |             | 99062004   | 21     | 22               | 27           | 29          |
|      |             | 99062005   | 14     | 14               | 28           | 29          |
|      |             | 99062006   | 16     | 17               | 23           | 24          |
|      |             | 99062007   | 20     | 20               | 29           | 30          |
|      |             | 99062008   | 10     | 11               | 23           | 24          |
|      |             | 99062009   | 18     | 18               | 31           | 31          |
|      |             | 99062010   | 8      | 10               | 21           | 23          |
|      |             | 99062011   | 17     | 18               | 22           | 20          |
|      |             | 99062012   | 14     | 15               | 39           | 39          |
|      |             | 99062013   | 17     | 17               | 28           | 27          |
|      |             | 99062014   | 21     | 22               | 25           | 24          |
|      | 63          | 99063001   | 12     | 11               | 18           | 20          |
|      |             | 99063002   | 8      | 8                | 15           | 14          |
|      |             | 99063003   | 6      | 6                | 14           | 15          |
|      |             | 99063004   | 7      | 8                | 14           | 15          |
|      |             | 99063005   | 14     | 15               | 20           | 19          |
|      |             | 99063006   | 11     | 13               | 20           | 18          |
|      |             | 99063007   | 10     | 11               | 19           | 19          |
|      |             | 99063008   | 8      | 6                | 18           | 20          |
|      |             | 99063009   | 8      | 6                | 21           | 23          |
|      |             | 99063010   | 8      | 9                | 23           | 28          |
|      |             | 99063011   | 10     | 11               | 26           | 27          |
|      |             | 99063012   | 10     | 9                | 24           | 24          |
|      |             | 99063013   | 8      | 9                | 17           | 8           |
|      |             | 99063014   | 7      | 8                | 20           | 21          |

|         | GEOPHYSICAL      |            |        | POLYCORDER | READING (mV) | )<br>       |
|---------|------------------|------------|--------|------------|--------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM  | PEAK TOP     | PEAK BOTTOM |
|         |                  | 99063015   | 9      | 11         | 23           | 28          |
|         |                  | 99063016   | 11     | 11         | 22           | 22          |
|         |                  | 99063017   | 12     | 12         | 21           | 24          |
|         |                  | 99063018   | 12     | 12         | 18           | 21          |
|         |                  | 99063019   | 11     | 9          | 20           | 22          |
|         |                  | 99063020   | 12     | 12         | 21           | 22          |
|         |                  | 99063021   | 14     | 14         | 23           | 23          |
|         |                  | 99063022   | 15     | 14         | 23           | 24          |
|         |                  | 99063023   | 15     | 16         | 22           | 23          |
|         |                  | 99063024   | 14     | 17         | 23           | 22          |
|         |                  | 99063025   | 14     | 14         | 22           | 24          |
|         |                  | 99063026   | 13     | 14         | 20           | 23          |
|         |                  | 99063027   | 15     | 17         | 20           | 21          |
|         | 64               | 99064001   | 14     | 6          | 20           | 23          |
|         |                  | 99064002   | 16     | 17         | 32           | 33          |
|         |                  | 99064003   | 13     | 15         | 21           | 24          |
|         |                  | 99064004   | 10     | 11         | 23           | 25          |
|         |                  | 99064005   | 10     | 11         | 22           | 23          |
|         |                  | 99064006   | 12     | 13         | 23           | 24          |
|         |                  | 99064007   | 16     | 17         | 21           | 21          |
|         |                  | 99064008   | 16     | 18         | 32           | 32          |
|         |                  | 99064009   | 12     | 15         | 34           | 35          |
|         |                  | 99064010   | 12     | 15         | 24           | 25          |
|         |                  | 99064011   | 13     | 14         | 27           | 29          |
|         |                  | 99064012   | 13     | 14         | 31           | 35          |
|         | Total Grids/Day: | 15         |        |            |              |             |
| 1/15/97 | 13               | 99013001   | 12     | 14         | 21           | 27          |
|         |                  | 99013002   | 11     | 13         | 35           | 37          |
|         |                  | 99013003   | 11     | 14         | 23           | 26          |
|         |                  | 99013004   | 10     | 11         | 50           | 61          |
|         |                  | 99013005   | 8      | 10         | 20           | 24          |
|         |                  | 99013006   | 6      | 9          | 27           | 31          |
|         |                  | 99013007   | 11     | 15         | 22           | 26          |
|         |                  | 99013008   | 6      | 9          | 23           | 28          |
|         |                  | 99013009   | 7      | 10         | 23           | 27          |
|         |                  | 99013010   | 11     | 13         | 26           | 30          |
|         |                  | 99013011   | 5      | 7          | 40           | 44          |
|         |                  | 99013012   | 11     | 13         | 27           | 30          |
|         |                  | 99013013   | 24     | 28         | 38           | 42          |
|         |                  | 99013014   | 4      | 9          | 26           | 29          |
|         |                  | 99013015   | 16     | 19         | 38           | 46          |
|         |                  | 99013016   | 12     | 14         | 32           | 34          |

|      | GEOPHYSICAL |            | POLYCORDER READING (mV) |           |     |             |  |  |
|------|-------------|------------|-------------------------|-----------|-----|-------------|--|--|
| DATE | GRID ID     | ANOMALY ID | BG TOP                  | BG BOTTOM |     | PEAK BOTTOM |  |  |
|      |             | 99013017   | 14                      | 15        | 27  | 32          |  |  |
|      |             | 99013018   | 14                      | 15        | 33  | 42          |  |  |
|      | 14          | 99014001   | 16                      | 17        | 40  | 24          |  |  |
|      |             | 99014002   | 6                       | 9         | 14  | 11          |  |  |
|      |             | 99014003   | 11                      | 14        | 25  | 22          |  |  |
|      |             | 99014004   | 8                       | 11        | 19  | 25          |  |  |
|      |             | 99014005   | 11                      | 12        | 29  | 27          |  |  |
|      |             | 99014006   | 11                      | 12        | 37  | 32          |  |  |
|      |             | 99014007   | 9                       | 11        | 35  | 30          |  |  |
|      |             | 99014008   | 9                       | 11        | 31  | 26          |  |  |
|      |             | 99014009   | 10                      | 11        | 46  | 42          |  |  |
|      |             | 99014010   | 13                      | 14        | 27  | 24          |  |  |
|      |             | 99014011   | 15                      | 17        | 39  | 37          |  |  |
|      |             | 99014012   | 16                      | 18        | 38  | 34          |  |  |
|      |             | 99014013   | 12                      | 13        | 52  | 45          |  |  |
|      |             | 99014014   | 8                       | 9         | 23  | 18          |  |  |
|      |             | 99014015   | 15                      | 17        | 30  | 25          |  |  |
|      |             | 99014016   | 14                      | 18        | 290 | 306         |  |  |
|      |             | 99014017   | 14                      | 18        | 45  | 41          |  |  |
|      | 15          | 99015001   | 12                      | 14        | 23  | 26          |  |  |
|      |             | 99015002   | 11                      | 12        | 48  | 50          |  |  |
|      |             | 99015003   | 17                      | 17        | 40  | 40          |  |  |
|      |             | 99015004   | 24                      | 22        | 42  | 41          |  |  |
|      |             | 99015005   | 15                      | 16        | 35  | 37          |  |  |
|      |             | 99015006   | 14                      | 15        | 32  | 35          |  |  |
|      |             | 99015007   | 14                      | 15        | 31  | 35          |  |  |
|      |             | 99015008   | 8                       | 11        | 30  | 35          |  |  |
|      |             | 99015009   | 9                       | 11        | 28  | 33          |  |  |
|      |             | 99015010   | 12                      | 14        | 32  | 36          |  |  |
|      |             | 99015011   | 11                      | 14        | 25  | 30          |  |  |
|      | 16          | 99016001   | 16                      | 19        | 22  | 19          |  |  |
|      |             | 99016002   | 10                      | 11        | 36  | 31          |  |  |
|      |             | 99016003   | 17                      | 19        | 29  | 32          |  |  |
|      |             | 99016004   | 8                       | 11        | 20  | 20          |  |  |
|      |             | 99016005   | 9                       | 11        | 26  | 24          |  |  |
|      |             | 99016006   | 16                      | 14        | 18  | 20          |  |  |
|      |             | 99016007   | 16                      | 14        | 23  | 26          |  |  |
|      |             | 99016008   | 14                      | 17        | 31  | 29          |  |  |
|      |             | 99016009   | 13                      | 16        | 30  | 26          |  |  |
|      |             | 99016010   | 16                      | 16        | 31  | 32          |  |  |
|      |             | 99016011   | 14                      | 14        | 34  | 35          |  |  |
|      | 26          | 99026001   | 8                       | 11        | 13  | 16          |  |  |
|      |             | 99026002   | 9                       | 9         | 19  | 21          |  |  |
|      |             |            |                         |           |     |             |  |  |

|      | GEOPHYSICAL |            | READING (mV) | (mV)      |          |             |
|------|-------------|------------|--------------|-----------|----------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP       | BG BOTTOM | PEAK TOP | PEAK BOTTOM |
|      |             | 99026003   | 8            | 10        | 17       | 19          |
|      |             | 99026004   | 8            | 9         | 22       | 18          |
|      |             | 99026005   | 7            | 8         | 14       | 15          |
|      |             | 99026006   | 7            | 9         | 18       | 16          |
|      | 27          | 99027001   | 5            | 9         | 18       | 14          |
|      |             | 99027002   | 5            | 9         | 16       | 19          |
|      | 28          | 99028001   | 3            | 6         | 11       | 15          |
|      |             | 99028002   | 4            | 7         | 12       | 16          |
|      |             | 99028003   | 2            | 5         | 17       | 19          |
|      |             | 99028004   | 2            | 5         | 17       | 20          |
|      |             | 99028005   | 5            | 7         | 15       | 19          |
|      |             | 99028006   | 5            | 8         | 12       | 15          |
|      | 37          | 99037001   | 2            | 3         | 8        | 9           |
|      |             | 99037002   | 4            | 6         | 15       | 17          |
|      |             | 99037003   | 3            | 5         | 8        | 10          |
|      |             | 99037004   | 2            | 3         | 15       | 17          |
|      |             | 99037005   | 1            | 2         | 12       | 14          |
|      |             | 99037006   | 5            | 7         | 14       | 15          |
|      |             | 99037007   | 2            | 3         | 9        | 11          |
|      |             | 99037008   | 2            | 3         | 15       | 17          |
|      |             | 99037009   | 4            | 5         | 10       | 11          |
|      |             | 99037010   | 4            | 5         | 12       | 15          |
|      |             | 99037011   | 2            | 4         | 9        | 11          |
|      |             | 99037012   | 4            | 5         | 11       | 14          |
|      |             | 99037013   | 3            | 4         | 12       | 14          |
|      |             | 99037014   | 3            | 4         | 18       | 20          |
|      |             | 99037015   | 2            | 3         | 9        | 11          |
|      |             | 99037016   | 3            | 4         | 12       | 13          |
|      |             | 99037017   | 3            | 4         | 15       | 18          |
|      |             | 99037018   | 3            | 5         | 9        | 11          |
|      | 38          | 99038001   | 1            | 2         | 9        | 10          |
|      |             | 99038002   | 0            | 2         | 10       | 11          |
|      |             | 99038003   | 1            | 1         | 5        | 5           |
|      |             | 99038004   | 0            | 1         | 5        | 5           |
|      | 39          | 99039001   | 6            | 8         | 9        | 10          |
|      |             | 99039002   | 6            | 8         | 12       | 12          |
|      |             | 99039003   | 8            | 8         | 11       | 11          |
|      |             | 99039004   | 8            | 8         | 11       | 11          |
|      |             | 99039005   | 6            | 6         | 17       | 17          |
|      |             | 99039006   | 5            | 5         | 11       | 11          |
|      |             | 99039007   | 8            | 8         | 14       | 14          |
|      |             | 99039008   | 6            | 6         | 11       | 12          |
|      |             | 99039009   | 6            | 7         | 17       | 18          |

| DATE | ODID ID |            | POLYCORDER READING (mV) |                  |          |             |  |  |
|------|---------|------------|-------------------------|------------------|----------|-------------|--|--|
|      | GRID ID | ANOMALY ID | BG TOP                  | <b>BG BOTTOM</b> | PEAK TOP | PEAK BOTTOM |  |  |
|      |         | 99039010   | 6                       | 7                | 15       | 16          |  |  |
|      |         | 99039011   | 8                       | 8                | 14       | 15          |  |  |
|      |         | 99039012   | 8                       | 8                | 19       | 22          |  |  |
|      |         | 99039013   | 9                       | 9                | 14       | 14          |  |  |
|      |         | 99039014   | 8                       | 8                | 24       | 24          |  |  |
|      |         | 99039015   | 5                       | 5                | 9        | 9           |  |  |
|      |         | 99039016   | 5                       | 5                | 11       | 11          |  |  |
|      |         | 99039017   | 2                       | 3                | 14       | 18          |  |  |
|      |         | 99039018   | 2                       | 3                | 16       | 18          |  |  |
|      |         | 99039019   | 5                       | 5                | 13       | 13          |  |  |
|      |         | 99039020   | 8                       | 8                | 34       | 39          |  |  |
|      |         | 99039021   | 3                       | 3                | 15       | 16          |  |  |
|      |         | 99039022   | 8                       | 8                | 11       | 11          |  |  |
|      | 40      | 99040001   | 0                       | 2                | 10       | 11          |  |  |
|      |         | 99040002   | 2                       | 2                | 11       | 12          |  |  |
|      |         | 99040003   | 2                       | 3                | 4        | 5           |  |  |
|      |         | 99040004   | 1                       | 2                | 5        | 7           |  |  |
|      |         | 99040005   | 2                       | 3                | 8        | 9           |  |  |
|      |         | 99040006   | 2                       | 3                | 9        | 11          |  |  |
|      | 41      | 99041001   | 1                       | 2                | 8        | 9           |  |  |
|      | • • •   | 99041002   | 1                       | 2                | 6        | 6           |  |  |
|      | 42      | 99042001   | 1                       | 2                | 5        | 5           |  |  |
|      | •-      | 99042002   | 2                       | 3                | 8        | 11          |  |  |
|      |         | 99042003   | 2                       | 2                | 5        | 5           |  |  |
|      |         | 99042004   | 2                       | 2                | 11       | 12          |  |  |
|      |         | 99042005   | 1                       | 2                | 14       | 16          |  |  |
|      |         | 99042006   | 2                       | 2                | 6        | 8           |  |  |
|      |         | 99042007   | 3                       | 4                | 9        | 11          |  |  |
|      |         | 99042008   | 1                       | 2                | 13       | 16          |  |  |
|      | 43      | 99043001   | 2                       | 2                | 4        | 5           |  |  |
|      | 73      | 99043002   | 2                       | 2                | 5        | 6           |  |  |
|      |         | 99043003   | 1                       | 2                | 6        | 7           |  |  |
|      | 44      | 99044001   | 1                       | 2                | 6        | 8           |  |  |
|      | 77      | 99044002   | 1                       | 2                | 10       | 11          |  |  |
|      |         | 99044003   | 2                       | 2                | 6        | 8           |  |  |
|      | 69      | 99069001   | 1                       | 2                | 6        | 8           |  |  |
|      | 00      | 99069002   | 1                       | 2                | 14       | 17          |  |  |
|      |         | 99069003   | Ó                       | 1                | 6        | 8           |  |  |
|      |         | 99069004   | 2                       | 2                | 94       | 101         |  |  |
|      |         | 99069005   | 1                       | 2                | 5<br>5   | 8           |  |  |
|      |         | 99069006   | 1                       | 1                | 9        | 8<br>7      |  |  |
|      |         | 99069007   | 0                       | 1                | 8        |             |  |  |
|      | 71      | 99071001   | 3                       | 4                | 8<br>20  | 11<br>17    |  |  |

|         | GEOPHYSICAL      |            |        | POLYCORDER I | READING (mV) |             |
|---------|------------------|------------|--------|--------------|--------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
|         |                  | 99071002   | 3      | 4            | 21           | 17          |
|         |                  | 99071003   | 1      | 4            | 21           | 18          |
|         |                  | 99071004   | 2      | 4            | 17           | 19          |
|         |                  | 99071005   | 2      | 4            | 6            | 9           |
|         | Total Grids/Day: | 17         |        |              |              |             |
| 1/16/97 | 4                | 99004001   | 2      | 7            | 7            | 11          |
|         |                  | 99004002   | 0      | 3            | 17           | 22          |
|         | 5                | 99005001   | 3      | 6            | 8            | 12          |
|         |                  | 99005002   | 4      | 5            | 16           | 12          |
|         |                  | 99005003   | 1      | 3            | 10           | 12          |
|         |                  | 99005004   | 3      | 5            | 11           | 14          |
|         |                  | 99005005   | 0      | 3            | 20           | 25          |
|         |                  | 99005006   | 6      | 8            | 10           | 13          |
|         | 7                | 99007001   | 9      | 11           | 20           | 24          |
|         |                  | 99007002   | 4      | 6            | 13           | 17          |
|         |                  | 99007003   | 2      | 4            | 18           | 20          |
|         |                  | 99007004   | 2      | 4            | 15           | 17          |
|         |                  | 99007005   | 6      | 7            | 20           | 24          |
|         | 8                | 99008001   | 3      | 5            | 14           | 16          |
|         |                  | 99008002   | 8      | 11           | 20           | 16          |
|         |                  | 99008003   | 4      | 6            | 24           | 19          |
|         |                  | 99008004   | 10     | 11           | 14           | 15          |
|         |                  | 99008005   | 5      | 6            | 20           | 17          |
|         |                  | 99008006   | 2      | 4            | 16           | 14          |
|         |                  | 99008007   | 7      | 9            | 28           | 21          |
|         |                  | 99008008   | 7      | 9            | 18           | 16          |
|         |                  | 99008009   | 4      | 5            | 14           | 17          |
|         |                  | 99008010   | 8      | 9            | 22           | 25          |
|         |                  | 99008011   | 5      | 6            | 21           | 26          |
|         | 10               | 99010001   | 1      | 2            | 3            | 5           |
|         |                  | 99010002   | 2      | 2            | 3            | 5           |
|         |                  | 99010003   | 0      | 2            | 6            | 8           |
|         |                  | 99010004   | 0      | 2            | 4            | 5           |
|         |                  | 99010005   | 1      | 2            | 3            | 5           |
|         |                  | 99010006   | 1      | 2            | 11           | 12          |
|         |                  | 99010007   | 2      | 4            | 11           | 12          |
|         |                  | 99010008   | 2      | 4            | 8            | 9           |
|         |                  | 99010009   | 1      | 2            | 6            | 7           |
|         |                  | 99010010   | 1      | 2            | 10           | 12          |
|         |                  | 99010011   | 1      | 2            | 3            | 5           |
|         |                  | 99010012   | 1      | 2            | 8            | 10          |
|         |                  | 99010013   | 1      | 2            | 5            | 6           |

|      | GEOPHYSICAL |            |               | POLYCORDER F | READING (mV) |             |
|------|-------------|------------|---------------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | <b>BG TOP</b> | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
|      |             | 99010014   | 1             | 2            | 6            | 6           |
|      |             | 99010015   | 1             | 2            | 3            | 5           |
|      |             | 99010016   | 1             | 2            | 5            | 5           |
|      |             | 99010017   | 1             | 2            | 8            | 11          |
|      |             | 99010018   | 1             | 2            | 7            | 11          |
|      |             | 99010019   | 1             | 2            | 5            | 6           |
|      |             | 99010020   | 1             | 2            | 8            | 9           |
|      |             | 99010021   | 1             | 2            | 3            | 5           |
|      |             | 99010022   | 1             | 2            | 6            | 7           |
|      |             | 99010023   | 1             | 2            | 5            | 6           |
|      | 12          | 99012001   | 6             | 6            | 8            | 10          |
|      |             | 99012002   | 6             | 6            | 12           | 12          |
|      |             | 99012003   | 3             | 4            | 12           | 13          |
|      |             | 99012004   | 3             | 4            | 12           | 12          |
|      |             | 99012005   | 7             | 7            | 10           | 11          |
|      |             | 99012006   | 4             | 4            | 10           | 11          |
|      |             | 99012007   | 5             | 5            | 18           | 20          |
|      |             | 99012008   | 5             | 5            | 11           | 11          |
|      |             | 99012009   | 2             | 3            | 10           | 11          |
|      |             | 99012010   | 6             | 6            | 11           | 11          |
|      |             | 99012011   | 6             | 6            | 11           | 11          |
|      |             | 99012012   | 5             | 5            | 14           | 15          |
|      |             | 99012013   | 6             | 6            | 12           | 14          |
|      |             | 99012014   | 5             | 6            | 10           | 11          |
|      |             | 99012015   | 5             | 5            | 10           | 11          |
|      |             | 99012016   | 6             | 6            | 16           | 16          |
|      |             | 99012017   | 6             | 6            | 17           | 8           |
|      |             | 99012018   | 6             | 6            | 12           | 13          |
|      |             | 99012019   | 5             | 6            | 21           | 29          |
|      |             | 99012020   | 5             | 6            | 9            | 10          |
|      |             | 99012021   | 6             | 6            | 13           | 13          |
|      |             | 99012022   | 3             | 3            | 10           | 11          |
|      |             | 99012023   | 6             | 7            | 11           | 11          |
|      |             | 99012024   | 5             | 5            | 11           | 12          |
|      |             | 99012025   | 5             | 5            | 10           | 11          |
|      | 45          | 99045001   | 2             | 3            | 10           | 11          |
|      |             | 99045002   | 1             | 2            | 10           | 11          |
|      |             | 99045003   | 2             | 3            | 5            | 6           |
|      |             | 99045004   | 2             | 3            | 6            | 8           |
|      |             | 99045005   | 1             | 3            | 12           | 14          |
|      |             | 99045006   | 3             | 4            | 10           | 11          |
|      |             | 99045007   | 1             | 2            | 10           | 11          |
|      |             | 99045008   | 4             | 5            | 5            | 6           |
|      |             |            |               |              |              |             |

|      | GEOPHYSICAL | GEOPHYSICAL CONTROL OF THE SECOND CONTROL OF |        |           | POLYCORDER READING (mV) |             |  |
|------|-------------|--|--------|-----------|-------------------------|-------------|--|
| DATE | GRID ID     | ANOMALY ID   | BG TOP | BG BOTTOM | PEAK TOP                | PEAK BOTTOM |  |
|      |             | 99045009   | 3      | 5         | 6                       | 8           |  |
|      |             | 99045010   | 3      | 4         | 12                      | 14          |  |
|      |             | 99045011   | 2      | 4         | 7                       | 8           |  |
|      |             | 99045012   | 2      | 3         | 5                       | 7           |  |
|      |             | 99045013   | 2      | 3         | 12                      | 14          |  |
|      |             | 99045014   | 1      | 2         | 8                       | 9           |  |
|      |             | 99045015   | 1      | 2         | 11                      | 12          |  |
|      |             | 99045016   | 0      | 1         | 8                       | 9           |  |
|      |             | 99045017   | 2      | 2         | 8                       | 8           |  |
|      |             | 99045018   | 1      | 3         | 8                       | 8           |  |
|      |             | 99045019   | 8      | 9         | 8                       | 9           |  |
|      |             | 99045020   | 3      | 4         | 6                       | 7           |  |
|      |             | 99045021   | 3      | 4         | 8                       | 9           |  |
|      |             | 99045022   | 4      | 5         | 8                       | 9           |  |
|      |             | 99045023   | 4      | 5         | 8                       | 8           |  |
|      |             | 99045024   | 5      | 5         | 14                      | 15          |  |
|      | 70          | 99070001   | 1      | 1         | 17                      | 19          |  |
|      |             | 99070002   | 1      | 1         | 5                       | 5           |  |
|      |             | 99070003   | 1      | 1         | 6                       | 6           |  |
|      |             | 99070004   | 1      | 1         | 6                       | 6           |  |
|      |             | 99070005   | 1      | 1         | 12                      | 13          |  |
|      |             | 99070006   | 1      | 1         | 6                       | 6           |  |
|      |             | 99070007   | 1      | 1         | 5                       | 5           |  |
|      |             | 99070008   | 1      | 1         | 19                      | 18          |  |
|      |             | 99070009   | 1      | 1         | 17                      | 20          |  |
|      | 72          | 99072001   | 1      | 1         | 5                       | 5           |  |
|      |             | 99072002   | 0      | 1         | 5                       | 6           |  |
|      |             | 99072003   | 0      | 0         | 6                       | 7           |  |
|      |             | 99072004   | 0      | 0         | 5                       | 6           |  |
|      |             | 99072005   | 0      | 1         | 3                       | 5           |  |
|      |             | 99072006   | 0      | 1         | 4                       | 6           |  |
|      |             | 99072007   | 0      | 1         | 3                       | 4           |  |
|      |             | 99072008   | 1      | 1         | 5                       | 6           |  |
|      |             | 99072009   | 0      | 1         | 6                       | 8           |  |
|      |             | 99072010   | 1      | 2         | 12                      | 2           |  |
|      |             | 99072011   | 1      | 0         | 14                      | 16          |  |
|      |             | 99072012   | 1      | 1         | 3                       | 5           |  |
|      | 109         | 99109001   | 7      | 6         | 21                      | 19          |  |
|      |             | 99109002   | 9      | 9         | 13                      | 12          |  |
|      |             | 99109003   | 9      | 9         | 14                      | 15          |  |
|      |             | 99109004   | 12     | 11        | 15                      | 14          |  |
|      |             | 99109005   | 12     | 11        | 28                      | 24          |  |
|      |             | 99109006   | 12     | 11        | 29                      | 25          |  |
|      |             |  |        |           |                         |             |  |

|      | GEOPHYSICAL | -          | POLYCORDER READING (mV) |           |     |             |  |
|------|-------------|------------|-------------------------|-----------|-----|-------------|--|
| DATE | GRID ID     | ANOMALY ID | BG TOP                  | BG BOTTOM |     | PEAK BOTTOM |  |
|      |             | 99109007   | 9                       | 8         | 31  | 32          |  |
|      |             | 99109008   | 9                       | 8         | 15  | 11          |  |
|      |             | 99109009   | 18                      | 15        | 127 | 104         |  |
|      |             | 99109010   | 18                      | 15        | 29  | 22          |  |
|      |             | 99109011   | 18                      | 17        | 30  | 27          |  |
|      |             | 99109012   | 18                      | 17        | 27  | 26          |  |
|      |             | 99109013   | 14                      | 12        | 29  | 30          |  |
|      |             | 99109014   | 18                      | 17        | 21  | 18          |  |
|      |             | 99109015   | 18                      | 17        | 26  | 23          |  |
|      |             | 99109016   | 17                      | 15        | 27  | 24          |  |
|      |             | 99109017   | 9                       | 8         | 17  | 18          |  |
|      |             | 99109018   | 9                       | 8         | 39  | 36          |  |
|      |             | 99109019   | 9                       | 8         | 36  | 32          |  |
|      |             | 99109020   | 19                      | 15        | 26  | 23          |  |
|      |             | 99109021   | 19                      | 15        | 45  | 35          |  |
|      |             | 99109022   | 19                      | 15        | 33  | 26          |  |
|      |             | 99109023   | 15                      | 17        | 25  | 24          |  |
|      |             | 99109024   | 15                      | 17        | 29  | 25          |  |
|      |             | 99109025   | 12                      | 10        | 26  | 23          |  |
|      |             | 99109026   | 14                      | 12        | 19  | 17          |  |
|      |             | 99109027   | 16                      | 20        | 14  | 26          |  |
|      |             | 99109028   | 16                      | 20        | 30  | 36          |  |
|      |             | 99109029   | 15                      | 15        | 35  | 30          |  |
|      |             | 99109030   | 15                      | 15        | 30  | 24          |  |
|      |             | 99109031   | 24                      | 23        | 33  | 33          |  |
|      |             | 99109032   | 11                      | 10        | 27  | 29          |  |
|      |             | 99109033   | 11                      | 10        | 23  | 21          |  |
|      |             | 99109034   | 11                      | 10        | 21  | 21          |  |
|      |             | 99109035   | 16                      | 15        | 36  | 33          |  |
|      |             | 99109036   | 10                      | 12        | 75  | <b>7</b> 1  |  |
|      |             | 99109037   | 10                      | 12        | 23  | 22          |  |
|      |             | 99109038   | 10                      | 12        | 17  | 17          |  |
|      | 110         | 99110001   | 4                       | 11        | 11  | 15          |  |
|      |             | 99110002   | 6                       | 10        | 66  | 80          |  |
|      |             | 99110003   | 12                      | 16        | 61  | 64          |  |
|      |             | 99110004   | 11                      | 12        | 18  | 21          |  |
|      |             | 99110005   | 19                      | 20        | 62  | 51          |  |
|      |             | 99110006   | 15                      | 15        | 28  | 27          |  |
|      |             | 99110007   | 19                      | 20        | 33  | 35          |  |
|      |             | 99110008   | 14                      | 12        | 55  | 33          |  |
|      |             | 99110009   | 9                       | 11        | 31  | 30          |  |
|      |             | 99110010   | 24                      | 24        | 70  | 59          |  |
|      |             | 99110011   | 17                      | 17        | 36  | 37          |  |
|      |             | 33110011   | 17                      | 17        | 30  | 3/          |  |

|         | GEOPHYSICAL      |            |        | POLYCORDER | READING (mV)   | İ           |
|---------|------------------|------------|--------|------------|----------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM  |                | PEAK BOTTOM |
|         | <u> </u>         | 99110012   | 17     | 17         | 46             | 45          |
|         | 111              | 99111001   | 21     | 20         | 37             | 36          |
|         |                  | 99111002   | 19     | 18         | 45             | 46          |
|         |                  | 99111003   | 17     | 18         | 26             | 28          |
|         |                  | 99111004   | 10     | 10         | 34             | 36          |
|         |                  | 99111005   | 13     | 14         | 35             | 36          |
|         |                  | 99111006   | 10     | 11         | 20             | 20          |
|         |                  | 99111007   | 15     | 16         | 42             | 43          |
|         |                  | 99111008   | 8      | 9          | 30             | 29          |
|         |                  | 99111009   | 20     | 21         | 43             | 43          |
|         |                  | 99111010   | 17     | 15         | 51             | 51          |
|         |                  | 99111011   | 10     | 11         | 29             | 30          |
|         |                  | 99111012   | 15     | 12         | 29             | 26          |
|         |                  | 99111013   | 16     | 14         | 34             | 28          |
|         | 112              | 99112001   | 10     | 12         | 29             | 29          |
|         |                  | 99112002   | 11     | 15         | 19             | 22          |
|         |                  | 99112003   | 10     | 11         | 22             | 22          |
|         |                  | 99112004   | 17     | 17         | 21             | 22          |
|         |                  | 99112005   | 11     | 12         | 39             | 38          |
|         |                  | 99112006   | 11     | 12         | 21             | 22          |
|         |                  | 99112007   | 18     | 17         | 33             | 37          |
|         |                  | 99112008   | 11     | 12         | 3 <del>9</del> | 39          |
|         |                  | 99112009   | 14     | 15         | 36             | 36          |
|         |                  | 99112010   | 11     | 13         | 20             | 22          |
|         |                  | 99112011   | 10     | 10         | 22             | 22          |
|         |                  | 99112012   | 13     | 13         | 23             | 26          |
|         |                  | 99112013   | 10     | 10         | 14             | 44          |
|         |                  | 99112014   | 10     | 10         | 37             | 37          |
|         |                  | 99112015   | 10     | 10         | 31             | 31          |
|         |                  | 99112016   | 19     | 17         | 32             | 32          |
|         |                  | 99112017   | 19     | 17         | 47             | 46          |
|         |                  | 99112018   | 27     | 27         | 33             | 31          |
|         | Total Grids/Day: | 13         |        |            |                |             |
| 1/17/97 | 121              | 99121001   | 4      | 4          | 12             | 12          |
|         |                  | 99121002   | 3      | 3          | 24             | 18          |
|         |                  | 99121003   | 6      | 6          | 56             | 62          |
|         |                  | 99121004   | 2      | 7          | 10             | 10          |
|         |                  | 99121005   | 3      | 3          | 11             | 11          |
|         |                  | 99121006   | 5      | 5          | 16             | 18          |
|         | 124              | 99124001   | 2      | 3          | 7              | 8           |
|         |                  | 99124002   | 4      | 4          | 11             | 11          |
|         |                  | 99124003   | 5      | 5          | 11             | 11          |

|      | GEOPHYSICAL |            |        | POLYCORDER READING (mV) |                |             |  |  |
|------|-------------|------------|--------|-------------------------|----------------|-------------|--|--|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM               | PEAK TOP       | PEAK BOTTOM |  |  |
|      |             | 99124004   | 5      | 5                       | 17             | 18          |  |  |
|      |             | 99124005   | 2      | 3                       | 8              | 11          |  |  |
|      |             | 99124006   | 4      | 4                       | 14             | 15          |  |  |
|      |             | 99124007   | 4      | 4                       | 18             | 19          |  |  |
|      | 137         | 99137001   | 2      | 5                       | 60             | 52          |  |  |
|      | 138         | 99138001   | 4      | 5                       | 7              | 10          |  |  |
|      |             | 99138002   | 4      | 5                       | 6              | 9           |  |  |
|      |             | 99138003   | 4      | 6                       | 7              | 10          |  |  |
|      |             | 99138004   | 3      | 6                       | 9              | 12          |  |  |
|      | 139         | 99139001   | 9      | 10                      | 12             | 14          |  |  |
|      | 153         | 99153001   | 4      | 5                       | 9              | 10          |  |  |
|      |             | 99153002   | 4      | 5                       | 9              | 8           |  |  |
|      |             | 99153003   | 2      | 2                       | 6              | 8           |  |  |
|      |             | 99153004   | 2      | 2                       | 8              | 10          |  |  |
|      |             | 99153005   | 2      | 2                       | 6              | 7           |  |  |
|      |             | 99153006   | 4      | 5                       | 8              | 9           |  |  |
|      |             | 99153007   | 4      | 5                       | 6              | 6           |  |  |
|      |             | 99153008   | 2      | 2                       | 8              | 9           |  |  |
|      |             | 99153009   | 2      | 2                       | 10             | 11          |  |  |
|      | 154         | 99154001   | 3      | 4                       | 15             | 20          |  |  |
|      |             | 99154002   | 3      | 4                       | 7              | 11          |  |  |
|      |             | 99154003   | 2      | 3                       | 10             | 11          |  |  |
|      |             | 99154004   | 2      | 3                       | 11             | 12          |  |  |
|      |             | 99154005   | 3      | 3                       | 9              | 11          |  |  |
|      |             | 99154006   | 5      | 5                       | 8              | 8           |  |  |
|      |             | 99154007   | 5      | 5                       | 8              | 8           |  |  |
|      |             | 99154008   | 4      | 5                       | 7              | 8           |  |  |
|      |             | 99154009   | 5      | 5                       | 8              | 9           |  |  |
|      |             | 99154010   | 5      | 5                       | 9              | 11          |  |  |
|      |             | 99154011   | 2      | 3                       | 9              | 11          |  |  |
|      | 155         | 99155001   | 5      | 5                       | 26             | 26          |  |  |
|      |             | 99155002   | 5      | 5                       | 10             | 11          |  |  |
|      |             | 99155003   | 5      | 5                       | 114            | 104         |  |  |
|      |             | 99155004   | 4      | 5                       | 29             | 33          |  |  |
|      |             | 99155005   | 4      | 5                       | 9              | 10          |  |  |
|      |             | 99155006   | 4      | 5                       | 8              | 8           |  |  |
|      |             | 99155007   | 2      | 3                       | 15             | 14          |  |  |
|      |             | 99155008   | 6      | 5                       | 18             | 18          |  |  |
|      |             | 99155009   | 6      | 5                       | 15             | 14          |  |  |
|      |             | 99155010   | 6      | 5                       | 17             | 18          |  |  |
|      |             | 99155011   | 6      | 5                       | 20             | 20          |  |  |
|      |             | 99155012   | 6      | 5                       | 1 <del>6</del> | 14          |  |  |
|      |             | 99155013   | 6      | 5                       | 12             | 11          |  |  |
|      |             |            | •      | •                       | 1 =            | • •         |  |  |

|      | GEOPHYSICAL |            | POLYCORDER READING (mV) |                  |          |             |  |
|------|-------------|------------|-------------------------|------------------|----------|-------------|--|
| DATE | GRID ID     | ANOMALY ID | <b>BG TOP</b>           | <b>BG BOTTOM</b> | PEAK TOP | PEAK BOTTOM |  |
| -    | <u> </u>    | 99155014   | 2                       | 3                | 20       | 21          |  |
|      |             | 99155015   | 3                       | 3                | 14       | 12          |  |
|      |             | 99155016   | 9                       | 9                | 11       | 11          |  |
|      |             | 99155017   | 6                       | 6                | 11       | 10          |  |
|      |             | 99155018   | 6                       | 6                | 12       | 14          |  |
|      |             | 99155019   | 3                       | 5                | 12       | 12          |  |
|      |             | 99155020   | 5                       | 5                | 12       | 14          |  |
|      | 173         | 99173001   | 1                       | 5                | 11       | 15          |  |
|      | 174         | 99174001   | 2                       | 4                | 159      | 147         |  |
|      | 175         | 99175001   | 5                       | 7                | 62       | 53          |  |
|      | 176         | 99176001   | 2                       | 5                | 6        | 10          |  |
|      |             | 99176002   | 2                       | 5                | 24       | 28          |  |
|      |             | 99176003   | 5                       | 7                | 10       | 12          |  |
|      | 177         | 99177001   | 5                       | 5                | 9        | 9           |  |
|      |             | 99177002   | 5                       | 6                | 7        | 8           |  |
|      |             | 99177003   | 3                       | 3                | 9        | 9           |  |
|      |             | 99177004   | 3                       | 5                | 8        | 9           |  |
|      |             | 99177005   | 6                       | 6                | 12       | 13          |  |
|      |             | 99177006   | 8                       | 9                | 17       | 19          |  |
|      |             | 99177007   | 5                       | 5                | 15       | 16          |  |
|      |             | 99177008   | 5                       | 5                | 11       | 11          |  |
|      |             | 99177009   | 5                       | 5                | 11       | 11          |  |
|      |             | 99177010   | 5                       | 5                | 8        | 9           |  |
|      |             | 99177011   | 3                       | 5                | 11       | 11          |  |
|      |             | 99177012   | 3                       | 5                | 11       | 12          |  |
|      |             | 99177013   | 6                       | 6                | 12       | 12          |  |
|      | 178         | 99178001   | 2                       | 2                | 11       | 14          |  |
|      |             | 99178002   | 3                       | 4                | 11       | 14          |  |
|      |             | 99178003   | 3                       | 4                | 23       | 27          |  |
|      |             | 99178004   | 3                       | 4                | 10       | 12          |  |
|      |             | 99178005   | 2                       | 4                | 11       | 14          |  |
|      |             | 99178006   | 3                       | 4                | 20       | 24          |  |
|      |             | 99178007   | 2                       | 3                | 20       | 26          |  |
|      |             | 99178008   | 3                       | 4                | 11       | 12          |  |
|      | 180         | 99180001   | 8                       | 8                | 13       | 15          |  |
|      |             | 99180002   | 6                       | 7                | 11       | 11          |  |
|      |             | 99180003   | 6                       | 7                | 24       | 24          |  |
|      |             | 99180004   | 6                       | 6                | 12       | 12          |  |
|      |             | 99180005   | 5                       | 5                | 12       | 12          |  |
|      |             | 99180006   | 6                       | 6                | 17       | 18          |  |
|      |             | 99180007   | 6                       | 6                | 12       | 14          |  |
|      |             | 99180008   | 6                       | 6                | 9        | 10          |  |
|      |             | 99180009   | 3                       | 3                | 11       | 11          |  |

|         | GEOPHYSICAL      | POLYCORDER READING (mV) |        |           |     |               |  |
|---------|------------------|-------------------------|--------|-----------|-----|---------------|--|
| DATE    | GRID ID          | ANOMALY ID              | BG TOP | BG BOTTOM |     | PEAK BOTTOM   |  |
|         |                  | 99180010                | 5      | 6         | 99  | 142           |  |
|         |                  | 99180011                | 5      | 6         | 38  | 44            |  |
|         |                  | 99180012                | 6      | 6         | 12  | 10            |  |
|         |                  | 99180013                | 3      | 3         | 14  | 16            |  |
|         |                  | 99180014                | 9      | 9         | 40  | 40            |  |
|         |                  | 99180015                | 9      | 9         | 14  | 17            |  |
|         |                  | 99180016                | 3      | 5         | 10  | 11            |  |
|         |                  | 99180017                | 6      | 6         | 13  | 14            |  |
|         |                  | 99180018                | 2      | 3         | 15  | 13            |  |
|         |                  | 99180019                | 5      | 5         | 15  | 15            |  |
|         |                  | 99180020                | 5      | 5         | 17  | 17            |  |
|         |                  | 99180021                | 6      | 6         | 12  | 12            |  |
|         |                  | 99180022                | 10     | 10        | 23  | 26            |  |
|         |                  | 99180023                | 10     | 10        | 22  | 23            |  |
|         |                  | 99180024                | 10     | 10        | 24  | 26            |  |
|         |                  | 99180025                | 10     | 10        | 60  | 66            |  |
|         |                  | 99180026                | 5      | 5         | 17  | 18            |  |
|         |                  | 99180027                | 5      | 5         | 10  | 11            |  |
|         |                  | 99180028                | 10     | 11        | 28  | 28            |  |
|         |                  | 99180029                | 10     | 10        | 22  | 23            |  |
|         |                  | 99180030                | 10     | 10        | 27  | 28            |  |
|         |                  | 99180031                | 7      | 7         | 12  | 15            |  |
|         |                  | 99180032                | 9      | 9         | 29  | 30            |  |
|         | 193              | 99193002                | 6      | 8         | 8   | 10            |  |
|         |                  | 99193003                | 7      | 9         | 115 | 118           |  |
|         | 195              | 99195001                | 14     | 14        | 17  | 18            |  |
|         | 196              | 99196001                | 11     | 12        | 20  | 22            |  |
| -       | Total Grids/Day: | 18                      |        |           |     | <del></del> - |  |
| 1/20/97 | 194              | 99194001                | 4      | 7         | 11  | 14            |  |
|         |                  | 99194002                | 9      | 10        | 11  | 11            |  |
|         |                  | 99194003                | 9      | 10        | 12  | 12            |  |
|         |                  | 99194004                | 10     | 11        | 15  | 15            |  |
|         | 197              | 99197001                | 2      | 5         | 11  | 15            |  |
|         | 198              | 99198001                | 2      | 5         | 9   | 11            |  |
|         |                  | 99198002                | 4      | 6         | 9   | 12            |  |
|         |                  | 99198003                | 4      | 6         | 8   | 11            |  |
|         | 199              | 99199001                | 5      | 7         | 11  | 14            |  |
|         |                  | 99199002                | 5      | 7         | 9   | 12            |  |
|         |                  | 99199003                | 5      | 7         | 42  | 43            |  |
|         |                  | 99199004                | 122    | 124       | 179 | 163           |  |
|         |                  | 99199005                | 5      | 9         | 23  | 26            |  |
|         |                  | 99199006                | 14     | 15        | 103 | 104           |  |

|      | GEOPHYSICAL |            |        | POLYCORDER F |     |             |
|------|-------------|------------|--------|--------------|-----|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    |     | PEAK BOTTOM |
|      | -           | 99199007   | 14     | 15           | 104 | 105         |
|      | 200         | 99200001   | 5      | 7            | 10  | 13          |
|      |             | 99200002   | 4      | 7            | 9   | 11          |
|      |             | 99200003   | 5      | 7            | 10  | 13          |
|      | 201         | 99201001   | 1      | 2            | 11  | 12          |
|      |             | 99201002   | 2      | 2            | 8   | 10          |
|      |             | 99201003   | 2      | 3            | 8   | 11          |
|      |             | 99201004   | 3      | 3            | 12  | 13          |
|      |             | 99201005   | 4      | 4            | 10  | 9           |
|      |             | 99201006   | 4      | 4            | 104 | 113         |
|      | 202         | 99202001   | 5      | 5            | 11  | 11          |
|      |             | 99202002   | 3      | 3            | 9   | 9           |
|      |             | 99202003   | 3      | 3            | 6   | 6           |
|      | 203         | 99203001   | 10     | 8            | 15  | 12          |
|      |             | 99203002   | 4      | 3            | 15  | 13          |
|      |             | 99203003   | 6      | 5            | 16  | 14          |
|      | ·           | 99203004   | 6      | 5            | 11  | 11          |
|      |             | 99203005   | 4      | 4            | 14  | 14          |
|      |             | 99203006   | 7      | 6            | 16  | 14          |
|      |             | 99203007   | 7      | 6            | 24  | 24          |
|      |             | 99203008   | 5      | 5            | 14  | 13          |
|      |             | 99203009   | 6      | 7            | 12  | 10          |
|      |             | 99203010   | 6      | 7            | 13  | 11          |
|      |             | 99203011   | 5      | 5            | 20  | 18          |
|      |             | 99203012   | 5      | 5            | 14  | 12          |
|      |             | 99203013   | 6      | 5            | 11  | 10          |
|      |             | 99203014   | 6      | 5            | 14  | 12          |
|      |             | 99203015   | 6      | 5            | 12  | 11          |
|      |             | 99203016   | 11     | 11           | 22  | 20          |
|      |             | 99203017   | 11     | 11           | 17  | 15          |
|      |             | 99203018   | 11     | 13           | 14  | 13          |
|      |             | 99203019   | 11     | 13           | 15  | 14          |
|      |             | 99203020   | 8      | 8            | 13  | 14          |
|      |             | 99203021   | 5      | 5            | 19  | 20          |
|      |             | 99203022   | 5      | 5            | 10  | 9           |
|      |             | 99203023   | 5      | 5            | 17  | 17          |
|      |             | 99203024   | 8      | 9            | 12  | 11          |
|      |             | 99203025   | 8      | 9            | 15  | 14          |
|      |             | 99203026   | 12     | 11           | 14  | 12          |
|      |             | 99203027   | 12     | 11           | 17  | 19          |
|      | 204         | 99204001   | 6      | 6            | 11  | 12          |
|      |             | 99204002   | 7      | 7            | 9   | 11          |
|      |             |            | •      | •            | _   |             |

### **GEOPHYSICAL INVESTIGATION** ORDNANCE OPERABLE UNIT (OOU) 6

Former Camp Croft

| DATE | GEOPHYSICAL<br>GRID ID |                  |        |           | POLYCORDER READING (mV) |             |  |  |  |  |
|------|------------------------|------------------|--------|-----------|-------------------------|-------------|--|--|--|--|
|      | טו טוווט               | ANOMALY ID       | BG TOP | BG BOTTOM | PEAK TOP                | PEAK BOTTOM |  |  |  |  |
|      |                        | 99204004         | 3      | 5         | 11                      | 11          |  |  |  |  |
|      |                        | 99204005         | 5      | 5         | 11                      | 11          |  |  |  |  |
|      |                        | 99204006         | 5      | 5         | 11                      | 12          |  |  |  |  |
|      |                        | 99204007         | 4      | 5         | 11                      | 12          |  |  |  |  |
|      |                        | 99204008         | 2      | 3         | 16                      | 18          |  |  |  |  |
|      |                        | 99204009         | 5      | 6         | 10                      | 11          |  |  |  |  |
|      |                        | 99204010         | 5      | 6         | 8                       | 9           |  |  |  |  |
|      |                        | 99204011         | 5      | 6         | 11                      | 11          |  |  |  |  |
|      |                        | 99204012         | 5      | 6         | 12                      | 13          |  |  |  |  |
|      |                        | 99204013         | 2      | 3         | 14                      | 18          |  |  |  |  |
|      |                        | 99204014         | 5      | 6         | 9                       | 11          |  |  |  |  |
|      |                        | 99204015         | 9      | 10        | 14                      | 14          |  |  |  |  |
|      |                        | 99204016         | 4      | 5         | 10                      | 9           |  |  |  |  |
|      |                        | 99204017         | 4      | 5         | 14                      | 14          |  |  |  |  |
|      |                        | 99204018         | 2      | 3         | 10                      | 11          |  |  |  |  |
|      |                        | 99204019         | 4      | 5         | 15                      | 15          |  |  |  |  |
|      |                        | 99204020         | 4      | 5         | 12                      | 13          |  |  |  |  |
|      |                        | 99204021         | 8      | 8         | 12                      | 12          |  |  |  |  |
|      |                        | 99204022         | 8      | 8         | 12                      | 2           |  |  |  |  |
|      |                        | 99204023         | 8      | 8         | 12                      | 12          |  |  |  |  |
|      |                        | 99204024         | 5      | 6         | 10                      | 11          |  |  |  |  |
|      |                        | 99204025         | 8      | 8         | 14                      | 17          |  |  |  |  |
|      |                        | 99204026         | 8      | 8         | 17                      | 15          |  |  |  |  |
|      | 205                    | 99205001         | 10     | 13        | 15                      | 16          |  |  |  |  |
|      |                        | 99205002         | 11     | 12        | 23                      | 24          |  |  |  |  |
|      |                        | 99205003         | 11     | 12        | 23                      | 25          |  |  |  |  |
|      |                        | 99205004         | 16     | 17        | 23                      | 27<br>27    |  |  |  |  |
|      |                        | 99205005         | 11     | 12        | 30                      | 32          |  |  |  |  |
|      |                        | 99205006         | 13     | 14        | 18                      | 19          |  |  |  |  |
|      |                        | 99205007         | 12     | 13        | 169                     | 157         |  |  |  |  |
|      |                        | 99205008         | 9      | 9         | 25                      | 27          |  |  |  |  |
|      |                        | 99205009         | 11     | 11        | 21                      | 23          |  |  |  |  |
|      |                        | 99205010         | 12     | 13        | 26                      | 28          |  |  |  |  |
|      |                        | 99205011         | 16     | 17        | 26                      | 27          |  |  |  |  |
|      |                        | 99205012         | 11     | 13        | 15                      | 16          |  |  |  |  |
|      |                        | 99205013         | 10     | 11        | 26                      | 27          |  |  |  |  |
|      |                        | 99205014         | 12     | 13        | 20                      | 23          |  |  |  |  |
|      |                        | 99205015         | 11     | 12        | 20                      | 22          |  |  |  |  |
|      |                        | 99205016         | 9      | 9         | 20<br>27                | 22<br>27    |  |  |  |  |
|      |                        | 99205017         | 12     | 13        | 27<br>28                | 30          |  |  |  |  |
|      | 206                    | 99206001         | 13     | 14        | 26<br>18                | 30<br>16    |  |  |  |  |
|      | 200                    | 99206001         | 6      | 14<br>8   | 17                      | 15          |  |  |  |  |
|      |                        | <b>ジラエいひひひ</b> と | U      | 0         | 17                      | 10          |  |  |  |  |

### GEOPHYSICAL INVESTIGATION ORDNANCE OPERABLE UNIT (OOU) 6

Former Camp Croft

|      | GEOPHYSICAL | POLYCORDER READING (mV) |               |                  |          |             |  |
|------|-------------|-------------------------|---------------|------------------|----------|-------------|--|
| DATE | GRID ID     | ANOMALY ID              | <b>BG TOP</b> | <b>BG BOTTOM</b> | PEAK TOP | PEAK BOTTOM |  |
|      |             | 99206004                | 14            | 15               | 18       | 20          |  |
|      |             | 99206005                | 17            | 18               | 24       | 25          |  |
|      |             | 99206006                | 15            | 15               | 18       | 21          |  |
|      |             | 99206007                | 9             | 11               | 19       | 21          |  |
|      |             | 99206008                | 12            | 14               | 18       | 19          |  |
|      |             | 99206009                | 8             | 9                | 16       | 19          |  |
|      |             | 99206010                | 8             | 9                | 13       | 19          |  |
|      |             | 99206011                | 12            | 14               | 19       | 21          |  |
|      |             | 99206012                | 6             | 8                | 16       | 18          |  |
|      | 210         | 99210001                | 5             | 5                | 23       | 23          |  |
|      |             | 99210002                | 5             | 5                | 26       | 27          |  |
|      |             | 99210003                | 2             | 2                | 12       | 19          |  |
|      |             | 99210004                | 2             | 2                | 8        | 11          |  |
|      |             | 99210005                | 3             | 4                | 20       | 23          |  |
|      |             | 99210006                | 3             | 4                | 21       | 22          |  |
|      |             | 99210007                | 0             | 2                | 12       | 14          |  |
|      |             | 99210008                | 6             | 6                | 26       | 29          |  |
|      |             | 99210009                | 1             | 2                | 29       | 26          |  |
|      |             | 99210010                | 1             | 2                | 18       | 20          |  |
|      |             | 99210011                | 1             | 2                | 10       | 11          |  |
|      |             | 99210012                | 2             | 3                | 8        | 10          |  |
|      |             | 99210013                | 2             | 3                | 17       | 17          |  |
|      |             | 99210014                | 2             | 4                | 35       | 33          |  |
|      |             | 99210015                | 4             | 4                | 20       | 21          |  |
|      |             | 99210016                | 4             | 5                | 22       | 25          |  |
|      |             | 99210017                | 4             | 5                | 18       | 18          |  |
|      |             | 99210018                | 4             | 5                | 23       | 21          |  |
|      |             | 99210019                | 5             | 6                | 27       | 29          |  |
|      |             | 99210020                | 8             | 8                | 22       | 23          |  |
|      |             | 99210021                | 5             | 6                | 42       | 45          |  |
|      |             | 99210022                | 8             | 8                | 25       | 24          |  |
|      |             | 99210023                | 2             | 3                | 12       | 15          |  |
|      |             | 99210024                | 2             | 3                | 29       | 29          |  |
|      |             | 99210025                | 2             | 3                | 11       | 13          |  |
|      |             | 99210026                | 6             | 6                | 10       | 12          |  |
|      |             | 99210027                | 3             | 5                | 13       | 16          |  |
|      |             | 99210028                | 5             | 5                | 12       | 14          |  |
|      |             | 99210029                | 5             | 5                | 13       | 14          |  |
|      |             | 99210030                | 5             | 6                | 9        | 13          |  |
|      |             | 99210031                | 5             | 6                | 12       | 12          |  |
|      |             | 99210032                | 3             | 3                | 12       | 13          |  |
|      | 211         | 99211001                | 0             | 2                | 8        | 11          |  |
|      |             | 99211002                | 6             | 6                | 11       | 12          |  |
|      |             |                         |               |                  |          |             |  |

| GEOPHYSICAL |                  | POLYCORDER READING (mV) |               |            |          |             |
|-------------|------------------|-------------------------|---------------|------------|----------|-------------|
| DATE        | GRID ID          | ANOMALY ID              | <b>BG TOP</b> | BG BOTTOM  | PEAK TOP | PEAK BOTTON |
|             |                  | 99211003                | 1             | 3          | 13       | 15          |
|             |                  | 99211004                | 6             | 7          | 16       | 19          |
|             |                  | 99211005                | 6             | 8          | 27       | 30          |
|             |                  | 99211006                | 6             | 8          | 16       | 17          |
|             |                  | 99211007                | 6             | 8          | 15       | 15          |
|             |                  | 99211008                | 2             | 3          | 10       | 11          |
|             |                  | 99211009                | 2             | 3          | 9        | 11          |
|             |                  | 99211010                | 5             | 5          | 10       | 11          |
|             |                  | 99211011                | 3             | 4          | 11       | 12          |
|             |                  | 99211012                | 4             | 4          | 12       | 14          |
|             |                  | 99211013                | 5             | 5          | 17       | 19          |
|             |                  | 99211014                | 5             | 5          | 12       | 14          |
|             |                  | 99211015                | 5             | 6          | 14       | 14          |
|             |                  | 99211016                | 2             | 3          | 20       | 21          |
|             |                  | 99211017                | 8             | 8          | 26       | 31          |
|             |                  | 99211018                | 5             | 6          | 10       | 11          |
|             | Total Grids/Day: | 13                      | _             | -          |          |             |
| 1/21/97     | 181              | 99181001                | 11            | 14         | 19       | 21          |
|             |                  | 99181002                | 20            | 21         | 30       | 32          |
|             |                  | 99181003                | 25            | 23         | 30       | 31          |
|             |                  | 99181004                | 25            | 23         | 44       | 41          |
|             |                  | 99181005                | 25            | 23         | 41       | 38          |
|             |                  | 99181006                | 25            | 23         | 97       | 96          |
|             |                  | 99181007                | 25            | 23         | 168      | 176         |
|             |                  | 99181008                | 25            | 23         | 74       | 73          |
|             |                  | 99181009                | 25            | 23         | 750      | 760         |
|             |                  | 99181010                | 25            | 23         | 68       | 64          |
|             |                  | 99181011                | 25            | 23         | 139      | 136         |
|             |                  | 99181012                | 19            | 18         | 41       | 42          |
|             |                  | 99181013                | 19            | 18         | 90       | 94          |
|             |                  | 99181014                | 19            | 18         | 109      | 108         |
|             |                  | 99181015                | 19            | 18         | 229      | 213         |
|             |                  | 99181016                | 67            | 57         | 485      | 401         |
|             |                  | 99181017                | 67            | 5.7<br>5.7 | 81       | 73          |
|             |                  | 99181018                | 67            | 57         | 79       | 83          |
|             |                  | 99181019                | 67            | 57         | 109      | 111         |
|             |                  | 99181020                | 29            | 28         | 59       | 62          |
|             |                  | 99181021                | 29            | 28         | 2815     | 2333        |
|             |                  | 99181022                | 29            | 28         | 68       | 2353<br>65  |
|             |                  | 99181023                | 64            | 63         | 131      | 124         |
|             |                  | 99181024                | 64            | 63         | 59       | 61          |
|             |                  | 99181025                | 34            | 35         | 77       | 54          |

|      | GEOPHYSICAL |            |        | POLYCORDER I   | READING (mV) | r           |
|------|-------------|------------|--------|----------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM      |              | PEAK BOTTOM |
|      | 182         | 99182001   | 11     | 12             | 16           | 19          |
|      |             | 99182002   | 11     | 13             | 15           | 19          |
|      |             | 99182003   | 11     | 14             | 14           | 16          |
|      |             | 99182004   | 11     | 13             | 17           | 20          |
|      |             | 99182005   | 11     | 12             | 19           | 22          |
|      |             | 99182006   | 8      | 10             | 17           | 20          |
|      |             | 99182007   | 8      | 9              | 18           | 18          |
|      |             | 99182008   | 11     | 13             | 21           | 24          |
|      |             | 99182009   | 7      | 10             | 17           | 21          |
|      |             | 99182010   | 7      | 9              | 23           | 24          |
|      |             | 99182011   | 9      | 11             | 20           | 22          |
|      |             | 99182012   | 11     | 13             | 22           | 25          |
|      |             | 99182013   | 11     | 13             | 22           | 25          |
|      |             | 99182014   | 10     | 14             | 26           | 28          |
|      |             | 99182015   | 13     | 14             | 18           | 21          |
|      |             | 99182016   | 14     | 16             | 25           | 29          |
|      |             | 99182017   | 11     | 13             | 18           | 20          |
|      | 183         | 99183001   | 13     | 15             | 83           | 89          |
|      |             | 99183002   | 13     | 15             | 19           | 21          |
|      |             | 99183003   | 12     | 14             | 20           | 23          |
|      |             | 99183004   | 16     | 16             | 19           | 20          |
|      |             | 99183005   | 11     | 13             | 21           | 23          |
|      |             | 99183006   | 10     | 11             | 36           | 38          |
|      |             | 99183007   | 10     | 11             | 25           | 28          |
|      |             | 99183008   | 11     | 12             | 25           | 27          |
|      |             | 99183009   | 14     | 15             | 24           | 25          |
|      |             | 99183010   | 11     | 11             | 26           | 29          |
|      |             | 99183011   | 14     | 14             | 31           | 32          |
|      |             | 99183012   | 16     | 16             | 30           | 31          |
|      |             | 99183013   | 14     | 14             | 24           | 25          |
|      |             | 99183014   | 15     | 15             | 23           | 26          |
|      |             | 99183015   | 14     | 15             | 22           | 22          |
|      |             | 99183016   | 16     | 17             | 26           | 26          |
|      |             | 99183017   | 12     | 13             | 21           | 23          |
|      |             | 99183018   | 12     | 13             | 26           | 28          |
|      |             | 99183019   | 15     | 16             | 21           | 20          |
|      |             | 99183020   | 12     | 13             | 25           | 25          |
|      |             | 99183021   | 13     | 13             | 20           | 22          |
|      | 184         | 99184001   | 20     | 21             | 25           | 26          |
|      |             | 99184002   | 17     | 17             | 22           | 24          |
|      |             | 99184003   | 16     | 17             | 22           | 24          |
|      |             | 99184004   | 16     | 17             | 29           | 31          |
|      |             | 99184005   | 18     | 1 <del>9</del> | 26           | 31          |

|      | GEOPHYSICAL | POLYCORDER READING (mV) |        |                  |          |             |  |  |
|------|-------------|-------------------------|--------|------------------|----------|-------------|--|--|
| DATE | GRID ID     | ANOMALY ID              | BG TOP | <b>BG BOTTOM</b> | PEAK TOP | PEAK BOTTOM |  |  |
|      |             | 99184006                | 15     | 16               | 26       | 31          |  |  |
|      |             | 99184007                | 25     | <b>2</b> 5       | 40       | 40          |  |  |
|      |             | 99184008                | 15     | 16               | 31       | 31          |  |  |
|      |             | 99184009                | 15     | 15               | 31       | 32          |  |  |
|      |             | 99184010                | 17     | 18               | 27       | 29          |  |  |
|      |             | 99184011                | 15     | 18               | 36       | 36          |  |  |
|      |             | 99184012                | 15     | 16               | 26       | 28          |  |  |
|      |             | 99184013                | 25     | 26               | 50       | 47          |  |  |
|      |             | 99184014                | 25     | 23               | 37       | 35          |  |  |
|      |             | 99184015                | 25     | 23               | 53       | 50          |  |  |
|      |             | 99184016                | 25     | 23               | 50       | 47          |  |  |
|      |             | 99184017                | 25     | 22               | 26       | 23          |  |  |
|      |             | 99184018                | 19     | 19               | 55       | 53          |  |  |
|      |             | 99184019                | 22     | 22               | 50       | 52          |  |  |
|      |             | 99184020                | 16     | 19               | 31       | 33          |  |  |
|      |             | 99184021                | 22     | 22               | 48       | 48          |  |  |
|      | 207         | 99207001                | 6      | 9                | 19       | 22          |  |  |
|      |             | 99207002                | 9      | 11               | 12       | 14          |  |  |
|      |             | 99207003                | 11     | 12               | 20       | 23          |  |  |
|      |             | 99207004                | 12     | 13               | 16       | 19          |  |  |
|      |             | 99207005                | 8      | 9                | 24       | 27          |  |  |
|      |             | 99207006                | 8      | 9                | 14       | 16          |  |  |
|      |             | 99207007                | 8      | 9                | 18       | 20          |  |  |
|      |             | 99207008                | 10     | 11               | 18       | 19          |  |  |
|      |             | 99207009                | 10     | 11               | 23       | 25          |  |  |
|      |             | 99207010                | 12     | 12               | 20       | 21          |  |  |
|      |             | 99207011                | 9      | 10               | 35       | 37          |  |  |
|      |             | 99207012                | 15     | 15               | 19       | 22          |  |  |
|      |             | 99207013                | 9      | 11               | 13       | 17          |  |  |
|      | 208         | 99208001                | 9      | 10               | 26       | 32          |  |  |
|      |             | 99208002                | 7      | 9                | 16       | 18          |  |  |
|      |             | 99208003                | 7      | 9                | 19       | 21          |  |  |
|      |             | 99208004                | 9      | 11               | 20       | 23          |  |  |
|      |             | 99208005                | 9      | 11               | 29       | 34          |  |  |
|      |             | 99208006                | 14     | 16               | 15       | 18          |  |  |
|      |             | 99208007                | 14     | 16               | 19       | 21          |  |  |
|      |             | 99208008                | 17     | 17               | 22       | 23          |  |  |
|      |             | 99208009                | 15     | 17               | 22       | 24          |  |  |
|      |             | 99208010                | 15     | 17               | 37       | 40          |  |  |
|      |             | 99208011                | 17     | 18               | 21       | 24          |  |  |
|      |             | 99208011                | 13     | 15               | 24       | 24<br>27    |  |  |
|      |             | 99208012                | 13     | 15               | 21       | 24          |  |  |
|      |             | 99208013                |        |                  |          |             |  |  |
|      |             | 33208014                | 13     | 15               | 21       | 23          |  |  |
|      |             |                         |        |                  |          |             |  |  |

|      | GEOPHYSICAL |            |        | POLYCORDER I | READING (mV) | 1           |
|------|-------------|------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
|      |             | 99208015   | 10     | 12           | 17           | 18          |
|      |             | 99208016   | 11     | 14           | 24           | 27          |
|      |             | 99208017   | 8      | 9            | 19           | 21          |
|      |             | 99208018   | 8      | 9            | 19           | 21          |
|      |             | 99208019   | 15     | 17           | 17           | 18          |
|      |             | 99208020   | 11     | 12           | 22           | 25          |
|      |             | 99208021   | 7      | 8            | 20           | 24          |
|      | 209         | 99209001   | 4      | 5            | 15           | 14          |
|      |             | 99209002   | 4      | 5            | 14           | 17          |
|      |             | 99209003   | 6      | 8            | 11           | 12          |
|      |             | 99209004   | 6      | 8            | 11           | 12          |
|      |             | 99209005   | 6      | 8            | 9            | 10          |
|      |             | 99209006   | 0      | 1            | 17           | 19          |
|      |             | 99209007   | 7      | 8            | 27           | 32          |
|      |             | 99209008   | 7      | 10           | 15           | 16          |
|      |             | 99209009   | 5      | 5            | 15           | 15          |
|      |             | 99209010   | 4      | 5            | 20           | 21          |
|      |             | 99209011   | 4      | 5            | 16           | 18          |
|      |             | 99209012   | 4      | 5            | 14           | 14          |
|      |             | 99209013   | 5      | 5            | 14           | 16          |
|      |             | 99209014   | 5      | 5            | 12           | 12          |
|      |             | 99209015   | 5      | 5            | 11           | 12          |
|      |             | 99209016   | 5      | 5            | 6            | 8           |
|      |             | 99209017   | 7      | 7            | 8            | 11          |
|      |             | 99209018   | 5      | 5            | 11           | 11          |
|      |             | 99209019   | 5      | 5            | 9            | 14          |
|      |             | 99209020   | 0      | 1            | 9            | 11          |
|      |             | 99209021   | 2      | 4            | 11           | 12          |
|      |             | 99209022   | 2      | 4            | 14           | 15          |
|      |             | 99209023   | 2      | 4            | 14           | 14          |
|      |             | 99209024   | 5      | 5            | 8            | 8           |
|      |             | 99209025   | 5      | 5            | 16           | 17          |
|      |             | 99209026   | 5      | 5            | 16           | 18          |
|      |             | 99209027   | 4      | 5            | 8            | 9           |
|      |             | 99209028   | 3      | 4            | 14           | 16          |
|      |             | 99209029   | 2      | 3            | 14           | 17          |
|      |             | 99209030   | 2      | 3            | 16           | 17          |
|      |             | 99209031   | 2      | 3            | 18           | 18          |
|      |             | 99209032   | 4      | 5            | 10           | 10          |
|      |             | 99209033   | 4      | 5            | 14           | 17          |
|      |             | 99209034   | 3      | 4            | 14           | 15          |
|      |             | 99209035   | 6      | 8            | 12           | 14          |
|      |             | 99209036   | 2      | 3            | 13           | 12          |
|      |             |            | -      | •            |              | •-          |

|      | GEOPHYSICAL | POLYCORDER READING (mV) |               |           |          |             |  |
|------|-------------|-------------------------|---------------|-----------|----------|-------------|--|
| DATE | GRID ID     | ANOMALY ID              | <b>BG TOP</b> | BG BOTTOM | PEAK TOP | PEAK BOTTON |  |
|      |             | 99209037                | 8             | 8         | 16       | 17          |  |
|      |             | 99209038                | 6             | 6         | 18       | 19          |  |
|      |             | 99209039                | 4             | 5         | 30       | 32          |  |
|      |             | 99209040                | 4             | 5         | 15       | 15          |  |
|      |             | 99209041                | 4             | 5         | 24       | 23          |  |
|      |             | 99209042                | 3             | 5         | 11       | 13          |  |
|      |             | 99209043                | 5             | 5         | 12       | 13          |  |
|      |             | 99209044                | 5             | 5         | 16       | 17          |  |
|      |             | 99209045                | 7             | 6         | 14       | 14          |  |
|      |             | 99209046                | 7             | 6         | 11       | 11          |  |
|      |             | 99209047                | 5             | 5         | 17       | 17          |  |
|      |             | 99209048                | 5             | 5         | 23       | 20          |  |
|      |             | 99209049                | 8             | 9         | 18       | 14          |  |
|      |             | 99209050                | 8             | 9         | 9        | 10          |  |
|      | 213         | 99213001                | 4             | 5         | 8        | 9           |  |
|      |             | 99213002                | 4             | 5         | 11       | 11          |  |
|      |             | 99213003                | 3             | . 5       | 8        | 8           |  |
|      |             | 99213004                | 2             | 3         | 9        | 10          |  |
|      |             | 99213005                | 2             | 3         | 10       | 11          |  |
|      |             | 99213006                | 2             | 3         | 19       | 21          |  |
|      |             | 99213007                | 2             | 3         | 11       | 11          |  |
|      |             | 99213008                | 4             | 4         | 10       | 11          |  |
|      |             | 99213009                | 3             | 5         | 14       | 14          |  |
|      |             | 99213010                | 4             | 4         | 10       | 10          |  |
|      |             | 99213011                | 5             | 5         | 14       | 14          |  |
|      |             | 99213012                | 5             | 5         | 9        | 10          |  |
|      |             | 99213013                | 5             | 5         | 10       | 11          |  |
|      |             | 99213014                | 6             | 6         | 11       | 11          |  |
|      |             | 99213015                | 6             | 6         | 9        | 9           |  |
|      |             | 99213016                | 8             | 8         | 14       | 16          |  |
|      |             | 99213017                | 8             | 8         | 11       | 12          |  |
|      |             | 99213018                | 4             | 5         | 10       | 10          |  |
|      |             | 99213019                | 8             | 8         | 15       | 16          |  |
|      |             | 99213020                | 5             | 6         | 9        | 9           |  |
|      |             | 99213021                | 6             | 6         | 9        | 9           |  |
|      |             | 99213022                | 5             | 5         | 9        | 9           |  |
|      |             | 99213023                | 5             | 5         | 9        | 9           |  |
|      | 214         | 99214001                | 6             | 6         | 17       | 17          |  |
|      |             | 99214002                | 6             | 6         | 10       | 10          |  |
|      |             | 99214003                | 6             | 6         | 11       | 14          |  |
|      |             | 99214004                | 6             | 6         | 9        | 10          |  |
|      |             | 99214005                | -             |           | -        |             |  |
|      |             | 99214006                | 5             | 5         | 11       | 11          |  |

|      | GEOPHYSICAL |                  |        | POLYCORDER       | READING (mV) | 1           |
|------|-------------|------------------|--------|------------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID       | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
| ·-   |             | 99214007         | 5      | 5                | 9            | 8           |
|      |             | 99214008         | 6      | 6                | 9            | 9           |
|      |             | 99214009         | 6      | 6                | 10           | 11          |
|      |             | 99214010         | 6      | 6                | 12           | 12          |
|      |             | 99214011         | 6      | 6                | 19           | 20          |
|      |             | 99214012         | 5      | 5                | 12           | 12          |
|      |             | 99214013         | 4      | 5                | 12           | 12          |
|      |             | 99214014         | 6      | 6                | 9            | 9           |
|      |             | 99214015         | 4      | 5                | 8            | 10          |
|      |             | 99214016         | 5      | 5                | 11           | 12          |
|      |             | 99214017         | 7      | 7                | 15           | 15          |
|      |             | 99214018         | 7      | 7                | 12           | 12          |
|      |             | 99214019         | 7      | 7                | 12           | 12          |
|      |             | 99214020         | 6      | 6                | 9            | 10          |
|      |             | 99214021         | 6      | 6                | 10           | 11          |
|      |             | 99214022         | 5      | 5                | 8            | 10          |
|      |             | 99214023         | 6      | 7                | 12           | 13          |
| •    |             | 99214024         | 2      | 4                | 18           | 20          |
|      |             | 99214025         | 3      | 4                | 11           | 14          |
|      |             | 99214026         | 3      | 4                | 10           | 12          |
|      |             | 99214027         | 2      | 4                | 8            | 9           |
|      |             | 99214028         | 2      | 4                | 10           | 11          |
|      |             | 99214029         | 3      | 4                | 15           | 17          |
|      | 215         | 99215001         | 5      | 7                | 7            | 9           |
|      |             | 99215002         | 4      | 5                | 9            | 11          |
|      |             | 99215003         | 4      | 5                | 10           | 10          |
|      |             | 99215004         | 2      | 4                | 12           | 14          |
|      |             | 99215005         | 5      | 6                | 24           | 28          |
|      |             | 99215006         | 5      | 5                | 11           | 11          |
|      |             | 99215007         | 4      | 5                | 11           | 12          |
|      |             | 99215008         | 3      | 4                | 8            | 8           |
|      |             | 99215009         | 3      | 4                | 8            | 9           |
|      |             | 99215010         | 5      | 5                | 14           | 14          |
|      |             | 99215011         | 3      | 5                | 9            | 11          |
|      |             | 99215012         | 5      | 5                | 12           | 14          |
|      |             | 99215013         | 3      | 3                | 12           | 14          |
|      |             | 99215014         | 3      | 5                | 8            | 8           |
|      | 216         | <b>99</b> 216001 | 6      | 6                | 13           | 14          |
|      |             | 99216002         | 6      | 6                | 10           | 10          |
|      |             | 99216003         | 5      | 6                | 9            | 9           |
|      |             | 99216004         | 8      | 8                | 11           | 11          |
|      |             | 99216005         | 8      | 8                | 17           | 17          |
|      |             | 99216006         | 8      | 8                | 10           | 10          |

|         | GEOPHYSICAL      |            |        | POLYCORDER | READING (mV) |             |
|---------|------------------|------------|--------|------------|--------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM  |              | PEAK BOTTOM |
|         |                  | 99216007   | 8      | 8          | 9            | 10          |
|         |                  | 99216008   | 6      | 6          | 11           | 11          |
|         |                  | 99216009   | 6      | 6          | 10           | 10          |
|         |                  | 99216010   | 7      | 7          | 9            | 10          |
|         |                  | 99216011   | 7      | 7          | 8            | 9           |
|         |                  | 99216012   | 6      | 6          | 11           | 12          |
|         |                  | 99216013   | 7      | 7          | 15           | 16          |
|         |                  | 99216014   | 7      | 6          | 14           | 14          |
|         |                  | 99216015   | 3      | 4          | 9            | 11          |
|         |                  | 99216016   | 5      | 6          | 10           | 12          |
|         |                  | 99216017   | 5      | 6          | 12           | 14          |
|         |                  | 99216018   | 2      | 4          | 16           | 17          |
|         |                  | 99216019   | 2      | 4          | 11           | 11          |
|         |                  | 99216020   | 2      | 4          | 8            | 10          |
|         |                  | 99216021   | 4      | 5          | 6            | 8           |
|         |                  | 99216022   | 2      | 3          | 10           | 12          |
|         |                  | 99216023   | 2      | 3          | 8            | 11          |
|         |                  | 99216024   | 2      | 4          | 14           | 17          |
|         |                  | 99216025   | 2      | 4          | 9            | 11          |
|         | Total Grids/Day: | 11         |        |            |              |             |
| 1/22/97 | 127              | 99127001   | 5      | 8          | 10           | 12          |
|         |                  | 99127002   | 6      | 7          | 18           | 17          |
|         |                  | 99127003   | 11     | 12         | 14           | 17          |
|         |                  | 99127004   | 11     | 12         | 12           | 14          |
|         |                  | 99127005   | 9      | 11         | 40           | 41          |
|         |                  | 99127006   | 9      | 11         | 14           | 15          |
|         |                  | 99127007   | 9      | 10         | 35           | 35          |
|         |                  | 99127008   | 9      | 10         | 49           | 63          |
|         |                  | 99127009   | 9      | 10         | 50           | 54          |
|         |                  | 99127010   | 17     | 19         | 29           | 32          |
|         |                  | 99127011   | 6      | 8          | 46           | 63          |
|         |                  | 99127012   | 10     | 11         | 13           | 14          |
|         |                  | 99127013   | 4      | 8          | 29           | 32          |
|         |                  | 99127014   | 8      | 10         | 13           | 20          |
|         |                  | 99127015   | 10     | 11         | 21           | 21          |
|         |                  | 99127016   | 8      | 11         | 20           | 22          |
|         |                  | 99127017   | 19     | 19         | 20           | 22          |
|         |                  | 99127018   | 8      | 11         | 15           | 18          |
|         |                  | 99127019   | 10     | 11         | 19           | 19          |
|         |                  | 99127020   | 10     | 11         | 102          | 120         |
|         | 128              | 99128001   | 7      | 9          | 16           | 19          |
|         |                  | 99128002   | 4      | 7          | 20           | 24          |

|      | GEOPHYSICAL |            |        | POLYCORDER READING (mV) |     |             |  |  |
|------|-------------|------------|--------|-------------------------|-----|-------------|--|--|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM               |     | PEAK BOTTOM |  |  |
|      |             | 99128003   | 10     | 12                      | 17  | 20          |  |  |
|      |             | 99128004   | 9      | 11                      | 17  | 20          |  |  |
|      |             | 99128005   | 8      | 9                       | 14  | 19          |  |  |
|      |             | 99128006   | 2      | 6                       | 24  | 30          |  |  |
|      |             | 99128007   | 3      | 7                       | 18  | 22          |  |  |
|      |             | 99128008   | 2      | 6                       | 20  | 23          |  |  |
|      |             | 99128009   | 4      | 6                       | 8   | 11          |  |  |
|      |             | 99128010   | 5      | 7                       | 11  | 15          |  |  |
|      |             | 99128011   | 4      | 6                       | 25  | 29          |  |  |
|      |             | 99128012   | 8      | 9                       | 56  | 60          |  |  |
|      | 129         | 99129001   | 6      | 8                       | 11  | 13          |  |  |
|      |             | 99129002   | 8      | 9                       | 11  | 12          |  |  |
|      | 132         | 99132001   | 1      | 2                       | 8   | 8           |  |  |
|      |             | 99132002   | 3      | 3                       | 7   | 7           |  |  |
|      |             | 99132003   | 2      | 3                       | 20  | 24          |  |  |
|      |             | 99132004   | ō      | 2                       | 8   | 8           |  |  |
|      |             | 99132005   | 2      | 3                       | 7   | 7           |  |  |
|      |             | 99132006   | 6      | 7                       | 8   | 7           |  |  |
|      |             | 99132007   | 6      | 7                       | 9   | 9           |  |  |
|      |             | 99132008   | 6      | 6                       | 9   | 9           |  |  |
|      |             | 99132009   | 6      | 6                       | 9   | 10          |  |  |
|      |             | 99132010   | 6      | 6                       | 10  | 10          |  |  |
|      |             | 99132011   | 6      | 6                       | 11  | 11          |  |  |
|      | 133         | 99133001   | 5      | 5                       | 8   | 8           |  |  |
|      |             | 99133002   | 5      | 5                       | 12  | 12          |  |  |
|      |             | 99133003   | 5      | 5                       | 12  | 13          |  |  |
|      |             | 99133004   | 7      | 7                       | 8   | 8           |  |  |
|      |             | 99133005   | 7      | 8                       | 9   | 9           |  |  |
|      |             | 99133006   | 5      | 5                       | 11  | 10          |  |  |
|      |             | 99133007   | 3      | 4                       | 11  | 10          |  |  |
|      |             | 99133008   | 3      | 4                       | 13  | 12          |  |  |
|      |             | 99133009   | 3      | 4                       | 10  | 10          |  |  |
|      |             | 99133010   | 2      | 3                       | 11  | 8           |  |  |
|      |             | 99133011   | 2      | 3                       | 110 | 96          |  |  |
|      | 134         | 99134001   | 8      | 8                       | 11  | 12          |  |  |
|      | 104         | 99134002   | 8      | 8                       | 12  | 11          |  |  |
|      |             | 99134003   | 6      | 5                       | 18  | 18          |  |  |
|      |             | 99134004   | 4      | 4                       | 25  | 22          |  |  |
|      |             | 99134005   | 3      | 3                       | 12  | 14          |  |  |
|      |             | 99134006   | 4      | 5                       | 11  | 11          |  |  |
|      |             | 99134007   | 5      | 5                       | 12  | 14          |  |  |
|      |             | 99134007   | 4      | 5                       | 10  | 9           |  |  |
|      |             |            | 7      | 7                       |     |             |  |  |
|      |             | 99134009   | /      | 1                       | 14  | 18          |  |  |

|      | GEOPHYSICAL |            |        | POLYCORDER READING (mV) |          |             |
|------|-------------|------------|--------|-------------------------|----------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM               | PEAK TOP | PEAK BOTTOM |
|      | 135         | 99135001   | 5      | 5                       | 11       | 11          |
|      |             | 99135002   | 6      | 5                       | 35       | 36          |
|      |             | 99135003   | 6      | 6                       | 11       | 11          |
|      |             | 99135004   | 6      | 5                       | 9        | 9           |
|      |             | 99135005   | 6      | 5                       | 10       | 9           |
|      |             | 99135006   | 5      | 5                       | 22       | 23          |
|      |             | 99135007   | 5      | 5                       | 8        | 9           |
|      |             | 99135008   | 5      | 4                       | 10       | 8           |
|      |             | 99135009   | 6      | 5                       | 29       | 27          |
|      |             | 99135010   | 3      | 3                       | 15       | 15          |
|      |             | 99135011   | 3      | 3                       | 9        | 9           |
|      |             | 99135012   | 3      | 3                       | 12       | 12          |
|      |             | 99135013   | 3      | 3                       | 29       | 26          |
|      |             | 99135014   | 3      | 3                       | 11       | 11          |
|      |             | 99135015   | 3      | 3                       | 11       | 12          |
|      | 136         | 99136001   | 3      | 5                       | 7        | 10          |
|      |             | 99136002   | 4      | 8                       | 9        | 11          |
|      |             | 99136003   | 5      | 7                       | 7        | 10          |
|      |             | 99136004   | 6      | 8                       | 26       | 29          |
|      |             | 99136005   | 2      | 6                       | 13       | 16          |
|      |             | 99136006   | 2      | 4                       | 24       | 28          |
|      |             | 99136007   | 4      | 6                       | 9        | 12          |
|      | 141         | 99141001   | 4      | 6                       | 8        | 10          |
|      |             | 99141002   | 8      | 10                      | 12       | 14          |
|      |             | 99141003   | 7      | 9                       | 16       | 19          |
|      |             | 99141004   | 8      | 10                      | 14       | 15          |
|      |             | 99141005   | 9      | 6                       | 12       | 14          |
|      |             | 99141006   | 7      | 9                       | 19       | 23          |
|      |             | 99141007   | 7      | 9                       | 11       | 14          |
|      |             | 99141008   | 8      | 10                      | 13       | 15          |
|      |             | 99141009   | 10     | 11                      | 11       | 12          |
|      |             | 99141010   | 8      | 10                      | 62       | 74          |
|      |             | 99141011   | 7      | 9                       | 17       | 21          |
|      | 142         | 99142001   | 7      | 8                       | 9        | 11          |
|      |             | 99142002   | 7      | 8                       | 12       | 14          |
|      |             | 99142003   | 5      | 7                       | 7        | 10          |
|      |             | 99142004   | 5      | 7                       | 15       | 15          |
|      |             | 99142005   | 7      | 8                       | 18       | 19          |
|      |             | 99142006   | 7      | 9                       | 51       | 45          |
|      |             | 99142007   | 6      | 8                       | 12       | 13          |
|      |             | 99142008   | 4      | 5                       | 11       | 14          |
|      |             | 99142009   | 7      | 7                       | 12       | 13          |
|      |             | 99142010   | 7      | 7                       | 9        | 10          |

|      | GEOPHYSICAL | L POLYCORDER READING (mV) |        |           |          |             |  |
|------|-------------|---------------------------|--------|-----------|----------|-------------|--|
| DATE | GRID ID     | ANOMALY ID                | BG TOP | BG BOTTOM |          | PEAK BOTTOM |  |
|      | 147         | 99147001                  | 2      | 3         | 11       | 15          |  |
|      | •           | 99147002                  | 2      | 3         | 9        | 11          |  |
|      |             | 99147003                  | 2      | 3         | 10       | 13          |  |
|      | 148         | 99148001                  | 2      | 6         | 16       | 20          |  |
|      |             | 99148002                  | 2      | 6         | 11       | 15          |  |
|      |             | 99148003                  | 2      | 5         | 10       | 15          |  |
|      | 149         | 99149001                  | 2      | 2         | 9        | 8           |  |
|      |             | 99149002                  | 2      | 2         | 11       | 11          |  |
|      |             | 99149003                  | 2      | 2         | 10       | 10          |  |
|      |             | 99149004                  | 2      | 2         | 10       | 11          |  |
|      |             | 99149005                  | 2      | 2         | 10       | 9           |  |
|      |             | 99149006                  | 4      | 4         | 14       | 14          |  |
|      |             | 99149007                  | 5      | 5         | 45       | 50          |  |
|      |             | 99149008                  | 3      | 3         | 11       | 11          |  |
|      |             | 99149009                  | 5      | 5         | 13       | 12          |  |
|      |             | 99149010                  | 5      | 5         | 24       | 24          |  |
|      |             | 99149011                  | 8      | 5         | 10       | 11          |  |
|      |             | 99149012                  | 5      | 5         | 12       | 13          |  |
|      | 150         | 99150001                  | 3      | 2         | 8        | 8           |  |
|      |             | 99150002                  | 3      | 2         | 9        | 9           |  |
|      |             | 99150003                  | 1      | 1         | 8        | 8           |  |
|      |             | 99150004                  | 3      | 3         | 7        | 6           |  |
|      |             | 99150005                  | 3      | 3         | 7        | 6           |  |
|      |             | 99150006                  | 4      | 4         | 8        | 7           |  |
|      |             | 99150007                  | 2      | 1         | 7        | 6           |  |
|      |             | 99150008                  | 2      | 1         | 7        | 8           |  |
|      |             | 99150009                  | 2      | 2         | 11       | 11          |  |
|      |             | 99150010                  | 5      | 5         | 8        | 8           |  |
|      |             | 99150011                  | 5      | 5         | 8        | 8           |  |
|      |             | 99150012                  | 4      | 4         | 10       | 11          |  |
|      |             | 99150013                  | 2      | 3         | 15       | 15          |  |
|      |             | 99150014                  | 5      | 5         | 11       | 11          |  |
|      |             | 99150015                  | 5      | 5         | 8        | 8           |  |
|      |             | 99150016                  | 5      | 5         | 9        | 10          |  |
|      |             | 99150017                  | 5      | 5         | 10       | 11          |  |
|      |             | 99150018                  | 4      | 5         | 9        | 10          |  |
|      |             | 99150019                  | 4      | 5         | 14       | 14          |  |
|      |             | 99150020                  | 4      | 5         | 14       | 13          |  |
|      | 151         | 99151001                  | 3      | 3         | 22       | 23          |  |
|      |             | 99151002                  | 3      | 3         | 14       | 14          |  |
|      |             | 99151003                  | 3      | 3         | 14       | 15          |  |
|      |             | 99151004                  | 3      | 3         | 32<br>37 | 34          |  |
|      |             | 99151005                  | 3      | 3         | 27       | 30          |  |

|      | GEOPHYSICAL      |            |        | POLYCORDER I     | READING (mV) |             |
|------|------------------|------------|--------|------------------|--------------|-------------|
| DATE | GRID ID          | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
|      | -                | 99151006   | 3      | 4                | 24           | 34          |
|      |                  | 99151007   | 3      | 4                | 12           | 12          |
|      |                  | 99151008   | 3      | 4                | 12           | 12          |
|      |                  | 99151009   | 3      | 4                | 18           | 18          |
|      |                  | 99151010   | 3      | 3                | 10           | 11          |
|      |                  | 99151011   | 3      | 3                | 10           | 12          |
|      |                  | 99151012   | 2      | 3                | 11           | 14          |
|      |                  | 99151013   | 2      | 3                | 18           | 20          |
|      |                  | 99151014   | 2      | 3                | 8            | 8           |
|      |                  | 99151015   | 2      | 3                | 5            | 10          |
|      |                  | 99151016   | 7      | 5                | 26           | 33          |
|      |                  | 99151017   | 8      | 8                | 12           | 14          |
|      |                  | 99151018   | 8      | 8                | 12           | 14          |
|      |                  | 99151019   | 8      | 8                | 12           | 14          |
|      |                  | 99151020   | 8      | 8                | 9            | 10          |
|      |                  | 99151021   | 5      | 5                | 14           | 16          |
|      |                  | 99151022   | 3      | 2                | 9            | 11          |
|      |                  | 99151023   | 3      | 2                | 9            | 11          |
|      | 152              | 99152001   | 3      | 2                | 12           | 12          |
|      |                  | 99152002   | 5      | 2                | 13           | 14          |
|      |                  | 99152003   | 5      | 2                | 11           | 12          |
|      |                  | 99152004   | 4      | 3                | 15           | 13          |
|      |                  | 99152005   | 4      | 3                | 9            | 9           |
|      |                  | 99152006   | 7      | 6                | 9            | 8           |
|      |                  | 99152007   | 7      | 6                | 20           | 18          |
|      |                  | 99152008   | 5      | 3                | 14           | 12          |
|      |                  | 99152009   | 8      | 6                | 22           | 21          |
|      |                  | 99152010   | 8      | 6                | 16           | 13          |
|      |                  | 99152011   | 6      | 4                | 21           | 22          |
|      |                  | 99152012   | 8      | 6                | 24           | 23          |
|      |                  | 99152013   | 8      | 6                | 16           | 15          |
|      |                  | 99152014   | 7      | 5                | 18           | 17          |
|      |                  | 99152015   | 8      | 6                | 16           | 15          |
|      |                  | 99152016   | 8      | 6                | 17           | 15          |
|      |                  | 99152017   | 8      | 6                | 22           | 27          |
|      |                  | 99152018   | 8      | 6                | 19           | 17          |
|      |                  | 99152019   | 8      | 6                | 14           | 11          |
|      |                  | 99152020   | 8      | 8                | 20           | 20          |
|      |                  | 99152021   | 8      | 8                | 15           | 15          |
|      |                  | 99152022   | 9      | 7                | 34           | 32          |
|      | 169              | 99169001   | 3      | 6                | 10           | 12          |
|      | Total Grids/Day: | 17         |        |                  |              |             |

### GEOPHYSICAL INVESTIGATION ORDNANCE OPERABLE UNIT (OOU) 6

Former Camp Croft

|         | GEOPHYSICAL | L POLYCORDER READING (mV) |        |           |    |             |  |
|---------|-------------|---------------------------|--------|-----------|----|-------------|--|
| DATE    | GRID ID     | ANOMALY ID                | BG TOP | BG BOTTOM |    | PEAK BOTTOM |  |
| 1/23/97 | 77          | 99077001                  | 1      | 2         | 7  | 8           |  |
| •       |             | 99077002                  | 1      | 2         | 6  | 7           |  |
|         |             | 99077003                  | 1      | 2         | 5  | 6           |  |
|         | 78          | 99078001                  | 1      | 0         | 5  | 4           |  |
|         |             | 99078002                  | 0      | 1         | 5  | 4           |  |
|         |             | 99078003                  | 2      | 2         | 9  | 9           |  |
|         |             | 99078004                  | 2      | 2         | 8  | 8           |  |
|         |             | 99078005                  | 1      | 1         | 9  | 8           |  |
|         |             | 99078006                  | 0      | 1         | 14 | 13          |  |
|         |             | 99078007                  | 2      | 2         | 8  | 7           |  |
|         |             | 99078008                  | 2      | 2         | 7  | 6           |  |
|         | 79          | 99079001                  | 3      | 1         | 11 | 8           |  |
|         |             | 99079002                  | 2      | 0         | 8  | 5           |  |
|         |             | 99079003                  | 2      | 0         | 10 | 9           |  |
|         |             | 99079004                  | 1      | 1         | 9  | 6           |  |
|         |             | 99079005                  | 1      | 2         | 9  | 8           |  |
|         |             | 99079006                  | 5      | 3         | 9  | 8           |  |
|         |             | 99079007                  | 4      | 2         | 9  | 8           |  |
|         |             | 99079008                  | 2      | 2         | 8  | 8           |  |
|         |             | 99079009                  | 2      | 1         | 13 | 12          |  |
|         |             | 99079010                  | 2      | 3         | 12 | 11          |  |
|         |             | 99079011                  | 0      | 2         | 11 | 11          |  |
|         |             | 99079012                  | 2      | 1         | 11 | 11          |  |
|         | 80          | 99080001                  | 0      | 2         | 9  | 8           |  |
|         |             | 99080002                  | 0      | 1         | 8  | 10          |  |
|         |             | 99080003                  | 1      | 1         | 9  | 9           |  |
|         |             | 99080004                  | 2      | 2         | 8  | 8           |  |
|         |             | 99080005                  | 2      | 3         | 8  | 7           |  |
|         |             | 99080006                  | 1      | 1         | 9  | 11          |  |
|         |             | 99080007                  | 1      | 1         | 8  | 8           |  |
|         | 105         | 99105001                  | 13     | 14        | 27 | 27          |  |
|         |             | 99105002                  | 17     | 17        | 26 | 24          |  |
|         |             | 99105003                  | 18     | 18        | 26 | 26          |  |
|         |             | 99105004                  | 19     | 17        | 34 | 34          |  |
|         |             | 99105005                  | 18     | 17        | 30 | 28          |  |
|         |             | 99105006                  | 15     | 14        | 20 | 20          |  |
|         |             | 99105007                  | 14     | 15        | 17 | 16          |  |
|         |             | 99105008                  | 17     | 15        | 28 | 26          |  |
|         |             | 99105009                  | 15     | 13        | 24 | 22          |  |
|         |             | 99105010                  | 15     | 14        | 26 | 25          |  |
|         |             | 99105011                  | 17     | 16        | 31 | 30          |  |
|         |             | 99105012                  | 19     | 17        | 25 | 24          |  |
|         |             | 99105013                  | 19     | 17        | 28 | 26          |  |

|      | GEOPHYSICAL |            |        | POLYCORDER F | READING (mV) |             |
|------|-------------|------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    |              | PEAK BOTTOM |
|      |             | 99105014   | 19     | 17           | 26           | 24          |
|      |             | 99105015   | 19     | 17           | 35           | 32          |
|      |             | 99105016   | 18     | 17           | 24           | 23          |
|      |             | 99105017   | 17     | 17           | 25           | 26          |
|      |             | 99105018   | 13     | 12           | 23           | 23          |
|      |             | 99105019   | 11     | 12           | 19           | 20          |
|      | 106         | 99106001   | 11     | 12           | 16           | 17          |
|      |             | 99106002   | 8      | 9            | 14           | 16          |
|      |             | 99106003   | 11     | 11           | 14           | 15          |
|      |             | 99106004   | 9      | 10           | 13           | 13          |
|      |             | 99106005   | 11     | 11           | 15           | 18          |
|      |             | 99106006   | 9      | 10           | 16           | 17          |
|      |             | 99106007   | 12     | 13           | 27           | 28          |
|      |             | 99106008   | 12     | 12           | 26           | 26          |
|      |             | 99106009   | 10     | 13           | 24           | 24          |
|      |             | 99106010   | 16     | 16           | 21           | 21          |
|      |             | 99106011   | 12     | 12           | 21           | 21          |
|      |             | 99106012   | 10     | 11           | 25           | 25          |
|      |             | 99106013   | 10     | 11           | 19           | 22          |
|      |             | 99106014   | 16     | 16           | 34           | 36          |
|      |             | 99106015   | 11     | 11           | 25           | 24          |
|      |             | 99106016   | 11     | 11           | 27           | 27          |
|      | 107         | 99107001   | 7      | 9            | 10           | 12          |
|      |             | 99107002   | 8      | 9            | 14           | 16          |
|      |             | 99107003   | 7      | 9            | 12           | 14          |
|      |             | 99107004   | 7      | 9            | 13           | 16          |
|      |             | 99107005   | 8      | 8            | 18           | 21          |
|      |             | 99107006   | 8      | 8            | 10           | 12          |
|      |             | 99107007   | 7      | 8            | 15           | 17          |
|      |             | 99107008   | 7      | 8            | 11           | 13          |
|      |             | 99107009   | 7      | 8            | 9            | 11          |
|      |             | 99107010   | 7      | 8            | 12           | 13          |
|      |             | 99107011   | 7      | 8            | 10           | 12          |
|      |             | 99107012   | 5      | 7            | 13           | 14          |
|      |             | 99107013   | 9      | 11           | 11           | 13          |
|      |             | 99107014   | 9      | 11           | 9            | 11          |
|      |             | 99107015   | 9      | 10           | 9            | 13          |
|      | 108         | 99108001   | 11     | 11           | 12           | 14          |
|      |             | 99108002   | 11     | 11           | 18           | 21          |
|      |             | 99108003   | 11     | 11           | 19           | 21          |
|      |             | 99108004   | 11     | 11           | 15           | 17          |
|      |             | 99108005   | 11     | 11           | 19           | 19          |
|      |             | 99108006   | 9      | 10           | 14           | 16          |

|      | GEOPHYSICAL |            |        | POLYCORDER I     | READING (mV) |             |
|------|-------------|------------|--------|------------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> |              | PEAK BOTTOM |
|      | <del></del> | 99108007   | 7      | 8                | 16           | 17          |
|      |             | 99108008   | 5      | 7                | 11           | 13          |
|      |             | 99108009   | 8      | 10               | 22           | 24          |
|      |             | 99108010   | 16     | 13               | 60           | 70          |
|      |             | 99108011   | 7      | 8                | 18           | 20          |
|      |             | 99108012   | 7      | 9                | 11           | 13          |
|      |             | 99108013   | 7      | 9                | 11           | 14          |
|      |             | 99108014   | 6      | 8                | 8            | 10          |
|      |             | 99108015   | 5      | 7                | 11           | 13          |
|      |             | 99108016   | 6      | 8                | 11           | 13          |
|      |             | 99108017   | 6      | 8                | 12           | 12          |
|      |             | 99108018   | 12     | 15               | 16           | 19          |
|      |             | 99108019   | 12     | 15               | 13           | 15          |
|      | 212         | 99212001   | 4      | 5                | 12           | 14          |
|      |             | 99212002   | 4      | 5                | 9            | 11          |
|      |             | 99212003   | 3      | 4                | 8            | 8           |
|      |             | 99212004   | 1      | 2                | 8            | 8           |
|      |             | 99212005   | 1      | 3                | 8            | 8           |
|      |             | 99212006   | 3      | 5                | 12           | 14          |
|      |             | 99212007   | 6      | 6                | 12           | 14          |
|      |             | 99212008   | 2      | 2                | 14           | 15          |
|      |             | 99212009   | 3      | 3                | 8            | 9           |
|      |             | 99212010   | 3      | 4                | 13           | 14          |
|      |             | 99212011   | 2      | 4                | 6            | 8           |
|      |             | 99212012   | 1      | 2                | 7            | 8           |
|      |             | 99212013   | 1      | 3                | 6            | 8           |
|      |             | 99212014   | 1      | 2                | 7            | 8           |
|      |             | 99212015   | 2      | 4                | 12           | 15          |
|      |             | 99212016   | 1      | 2                | 8            | 9           |
|      |             | 99212017   | 2      | 3                | 10           | 14          |
|      |             | 99212018   | 2      | 3                | 6            | 8           |
|      | 245         | 99245001   | 4      | 5                | 6            | 6           |
|      |             | 99245002   | 4      | 5                | 9            | 11          |
|      |             | 99245003   | 4      | 5                | 6            | 8           |
|      |             | 99245004   | 3      | 4                | 19           | 18          |
|      |             | 99245005   | 5      | 5                | 6            | 7           |
|      |             | 99245006   | 1      | 2                | 5            | 6           |
|      |             | 99245007   | 2      | 2                | 8            | 9           |
|      |             | 99245008   | 2      | 2                | 8            | 9           |
|      | 246         | 99246001   | 1      | 2                | 3            | 4           |
|      | _ · -       | 99246002   | 1      | 2                | 5            | 5           |
|      |             | 99246003   | Ó      | 2                | 4            | 5           |
|      |             | 99246004   | ō      | 2                | 6            | 8           |
|      |             |            | •      | _                | •            | -           |

|                | GEOPHYSICAL      |            |        | POLYCORDER I     | READING (mV) | )           |
|----------------|------------------|------------|--------|------------------|--------------|-------------|
| DATE           | GRID ID          | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
| <del>-</del> . | <del></del>      | 99246005   | 1      | 2                | 4            | 6           |
|                | 247              | 99247001   | 2      | 2                | 4            | 5           |
|                |                  | 99247002   | 2      | 3                | 5            | 6           |
|                |                  | 99247003   | 2      | 3                | 5            | 5           |
|                |                  | 99247004   | 3      | 3                | 14           | 16          |
|                |                  | 99247005   | 3      | 3                | 5            | 6           |
|                |                  | 99247006   | 4      | 5                | 7            | 8           |
|                |                  | 99247007   | 2      | 2                | 6            | 6           |
|                |                  | 99247008   | 5      | 5                | 6            | 7           |
|                |                  | 99247009   | 5      | 5                | 8            | 7           |
|                | 248              | 99248001   | 2      | 3                | 5            | 5           |
|                |                  | 99248002   | 2      | 3                | 6            | 6           |
|                |                  | 99248003   | 5      | 5                | 8            | 9           |
|                |                  | 99248004   | 4      | 5                | 17           | 18          |
|                |                  | 99248005   | 4      | 5                | 12           | 14          |
|                |                  | 99248006   | 4      | 5                | 11           | 12          |
|                | 255              | 99255001   | 2      | 5                | 119          | 53          |
|                | 256              | 99256001   | 2      | 8                | 6            | 8           |
|                | 269              | 99269001   | 2      | 4                | 50           | 55          |
|                | 272              | 99272001   | 2      | 3                | 9            | 12          |
|                | Total Grids/Day: | 17         |        |                  |              |             |
| 1/26/97        | 22               | 99022001   | 1      | 6                | 4            | 8           |
|                |                  | 99022002   | 2      | 5                | 4            | 7           |
|                |                  | 99022003   | 3      | 6                | 7            | 12          |
|                |                  | 99022004   | 2      | 6                | 4            | 8           |
|                |                  | 99022005   | 3      | 6                | 11           | 14          |
|                |                  | 99022006   | 3      | 7                | 8            | 11          |
|                |                  | 99022007   | 3      | 6                | 5            | 9           |
|                |                  | 99022008   | 2      | 5                | 5            | 9           |
|                |                  | 99022009   | 2      | 5                | 6            | 10          |
|                |                  | 99022010   | 4      | 6                | 5            | 8           |
|                |                  | 99022011   | 1      | 4                | 4            | 8           |
|                | 49               | 99049001   | 4      | 6                | 4            | 8           |
|                |                  | 99049002   | 3      | 6                | 9            | 15          |
|                |                  | 99049003   | 2      | 6                | 5            | 8           |
|                |                  | 99049004   | 2      | 5                | 14           | 18          |
|                |                  | 99049005   | 4      | 7                | 7            | 10          |
|                |                  | 99049006   | 1      | 4                | 7            | 9           |
|                |                  | 99049007   | 1      | 4                | 6            | 9           |
|                |                  | 99049008   | 1      | 4                | 4            | 7           |
|                | 50               | 99050001   | 2      | 6                | 9            | 12          |
|                |                  | 99050002   | 2      | 6                | 4            | 7           |

|      | GEOPHYSICAL |            |        | POLYCORDER F | READING (mV) |             |
|------|-------------|------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
|      |             | 99050003   | 2      | 5            | 6            | 9           |
|      |             | 99050004   | 1      | 5            | 5            | 8           |
|      | 51          | 99051001   | 2      | 5            | 10           | 14          |
|      |             | 99051002   | 3      | 6            | 4            | 8           |
|      |             | 99051003   | 2      | 5            | 5            | 8           |
|      |             | 99051004   | 2      | 5            | 4            | 10          |
|      |             | 99051005   | 2      | 5            | 10           | 14          |
|      |             | 99051006   | 2      | 5            | 5            | 8           |
|      |             | 99051007   | 4      | 7            | 7            | 11          |
|      | 52          | 99052001   | 3      | 7            | 5            | 8           |
|      |             | 99052002   | 2      | 5            | 6            | 10          |
|      |             | 99052003   | 2      | 5            | 5            | 9           |
|      |             | 99052004   | 2      | 5            | 7            | 9           |
|      |             | 99052005   | 2      | 5            | 7            | 11          |
|      | 53          | 99053001   | 4      | 7            | 7            | 10          |
|      |             | 99053002   | 4      | 7            | 8            | 11          |
|      |             | 99053003   | 6      | 9            | 12           | 16          |
|      |             | 99053004   | 5      | 7            | 6            | 10          |
|      |             | 99053005   | 5      | 8            | 10           | 14          |
|      |             | 99053006   | 4      | 7            | 11           | 15          |
|      |             | 99053007   | 6      | 9            | 9            | 12          |
|      |             | 99053008   | 4      | 6            | 14           | 18          |
|      |             | 99053009   | 5      | 7            | 10           | 14          |
|      |             | 99053010   | 4      | 7            | 5            | 10          |
|      |             | 99053011   | 4      | 7            | 7            | 10          |
|      |             | 99053012   | 6      | 8            | 12           | 13          |
|      |             | 99053013   | 4      | 8            | 10           | 11          |
|      |             | 99053014   | 3      | 6            | 8            | 10          |
|      |             | 99053015   | 7      | 9            | 10           | 13          |
|      |             | 99053016   | 3      | 7            | 121          | 111         |
|      | 54          | 99054001   | 3      | 6            | 10           | 13          |
|      |             | 99054002   | 3      | 6            | 9            | 11          |
|      |             | 99054003   | 3      | 6            | 11           | 14          |
|      |             | 99054004   | 2      | 5            | 5            | 8           |
|      |             | 99054005   | 2      | 5            | 5            | 7           |
|      |             | 99054006   | 2      | 5            | 8            | 11          |
|      |             | 99054007   | 3      | 6            | 6            | 9           |
|      |             | 99054008   | 4      | 6            | 7            | 10          |
|      | 55          | 99055001   | 2      | 5            | 7            | 10          |
|      |             | 99055002   | 2      | 6            | 5            | 7           |
|      |             | 99055003   | 2      | 6            | 6            | 9           |
|      |             | 99055004   | 4      | 7            | 14           | 17          |
|      |             | 99055005   | 4      | 7            | 10           | 13          |

|      | GEOPHYSICAL |            |        | POLYCORDER F | READING (mV) |             |
|------|-------------|------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    |              | PEAK BOTTOM |
|      |             | 99055006   | 3      | 6            | 5            | 8           |
|      |             | 99055007   | 3      | 6            | 5            | 8           |
|      |             | 99055008   | 3      | 6            | 10           | 13          |
|      |             | 99055009   | 2      | 5            | 6            | 9           |
|      |             | 99055010   | 2      | 5            | 10           | 12          |
|      |             | 99055011   | 2      | 6            | 5            | 7           |
|      |             | 99055012   | 1      | 4            | 9            | 11          |
|      |             | 99055013   | 3      | 6            | 10           | 12          |
|      |             | 99055014   | 2      | 5            | 7            | 10          |
|      |             | 99055015   | 5      | 7            | 19           | 14          |
|      | 56          | 99056001   | 2      | 7            | 5            | 10          |
|      |             | 99056002   | 4      | 7            | 5            | 10          |
|      |             | 99056003   | 3      | 6            | 7            | 11          |
|      |             | 99056004   | 3      | 7            | 7            | 10          |
|      |             | 99056005   | 7      | 10           | 13           | 14          |
|      |             | 99056006   | 4      | 7            | 6            | 10          |
|      |             | 99056007   | 4      | 7            | 15           | 19          |
|      |             | 99056008   | 4      | 6            | 10           | 13          |
|      |             | 99056009   | 4      | 8            | 14           | 15          |
|      |             | 99056010   | 5      | 8            | 8            | 10          |
|      |             | 99056011   | 5      | 8            | 6            | 10          |
|      |             | 99056012   | 3      | 6            | 5            | 9           |
|      |             | 99056013   | 3      | 6            | 9            | 12          |
|      |             | 99056014   | 3      | 7            | 7            | 11          |
|      |             | 99056015   | 3      | 6            | 7            | 10          |
|      |             | 99056016   | 4      | 7            | 8            | 11          |
|      |             | 99056017   | 3      | 6            | 7            | 11          |
|      |             | 99056018   | 3      | 7            | 6            | 10          |
|      |             | 99056019   | 6      | 9            | 8            | 11          |
|      |             | 99056020   | 5      | 8            | 11           | 15          |
|      |             | 99056021   | 4      | 7            | 9            | 11          |
|      |             | 99056022   | 2      | 6            | 7            | 10          |
|      |             | 99056023   | 2      | 5            | 6            | 10          |
|      | 233         | 99233001   | 2      | 2            | 5            | 7           |
|      |             | 99233002   | 4      | 5            | 8            | 8           |
|      |             | 99233003   | 3      | 4            | 8            | 8           |
|      |             | 99233004   | 2      | 5            | 8            | 9           |
|      |             | 99233005   | 2      | 5            | 8            | 10          |
|      |             | 99233006   | 2      | 5            | 8            | 9           |
|      |             | 99233007   | 3      | 5            | 8            | 9           |
|      |             | 99233008   | 2      | 4            | 8            | 9           |
|      |             | 99233009   | 2      | 4            | 8            | 9           |
|      |             | 99233010   | 2      | 2            | 6            | 8           |
|      |             | 002000     | _      | -            | Ü            | J           |

|      | GEOPHYSICAL |            |        | POLYCORDER I     | READING (mV) |             |
|------|-------------|------------|--------|------------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
|      |             | 99233011   | 2      | 3                | 8            | 9           |
|      |             | 99233012   | 2      | 3                | 8            | 8           |
|      |             | 99233013   | 2      | 3                | 8            | 8           |
|      |             | 99233014   | 2      | 3                | 9            | 12          |
|      |             | 99233015   | 0      | 1                | 8            | 8           |
|      |             | 99233016   | 2      | 3                | 14           | 15          |
|      |             | 99233017   | 2      | 2                | 11           | 11          |
|      |             | 99233018   | 3      | 5                | 9            | 11          |
|      |             | 99233019   | 2      | 2                | 7            | 8           |
|      | 234         | 99234001   | 5      | 5                | 8            | 8           |
|      |             | 99234002   | 5      | 5                | 10           | 11          |
|      |             | 99234003   | 5      | 5                | 8            | 8           |
|      |             | 99234004   | 5      | 6                | 13           | 13          |
|      |             | 99234005   | 5      | 5                | 10           | 11          |
|      |             | 99234006   | 5      | 5                | 11           | 11          |
|      |             | 99234007   | 5      | 5                | 10           | 11          |
|      |             | 99234008   | 5      | 5                | 9            | 11          |
|      |             | 99234009   | 4      | 5                | 10           | 11          |
|      |             | 99234010   | 5      | 5                | 8            | 8           |
|      |             | 99234011   | 5      | 6                | 10           | 11          |
|      |             | 99234012   | 5      | 5                | 12           | 13          |
|      |             | 99234013   | 5      | 5                | 8            | 8           |
|      |             | 99234014   | 5      | 5                | 8            | 9           |
|      |             | 99234015   | 5      | 5                | 8            | 9           |
|      |             | 99234016   | 5      | 5                | 8            | 8           |
|      | 235         | 99235001   | 4      | 5                | 11           | 11          |
|      |             | 99235002   | 3      | 3                | 5            | 6           |
|      |             | 99235003   | 3      | 3                | 8            | 8           |
|      |             | 99235004   | 4      | 5                | 11           | 14          |
|      |             | 99235005   | 4      | 5                | 11           | 11          |
|      |             | 99235006   | 2      | 3                | 8            | 11          |
|      |             | 99235007   | 2      | 3                | 6            | 7           |
|      |             | 99235008   | 1      | 2                | 7            | 8           |
|      | 236         | 99236001   | 4      | 5                | 8            | 10          |
|      |             | 99236002   | 4      | 5                | 9            | 10          |
|      |             | 99236003   | 5      | 5                | 8            | 9           |
|      |             | 99236004   | 4      | 5                | 8            | 9           |
|      |             | 99236005   | 4      | 5                | 8            | 8           |
|      |             | 99236006   | 4      | 5                | 11           | 12          |
|      |             | 99236007   | 4      | 5                | 11           | 12          |
|      |             | 99236008   | 4      | 5                | 8            | 8           |
|      |             | 99236009   | 4      | 5                | 10           | 11          |
|      |             | 99236010   | 4      | 5                | 8            | 10          |

|      | GEOPHYSICAL  |                      |        | POLYCORDER F | READING (mV) |             |
|------|--------------|----------------------|--------|--------------|--------------|-------------|
| DATE | GRID ID      | ANOMALY ID           | BG TOP | BG BOTTOM    |              | PEAK BOTTOM |
|      |              | 99236011             | 2      | 4            | 17           | 20          |
|      |              | 99236012             | 4      | 5            | 6            | 8           |
|      |              | 99236013             | 5      | 6            | 9            | 11          |
|      |              | 99236014             | 5      | 6            | 9            | 10          |
|      |              | 99236015             | 5      | 5            | 8            | 9           |
|      |              | 99236016             | 5      | 6            | 11           | 12          |
|      |              | 99236017             | 3      | 4            | 6            | 8           |
|      |              | 99236018             | 5      | 6            | 12           | 14          |
|      |              | 99236019             | 5      | 6            | 11           | 11          |
|      |              | 99236020             | 3      | 4            | 10           | 12          |
|      | 249          | 99249001             | 1      | 2            | 6            | 8           |
|      |              | 99249002             | 1      | 2            | 5            | 6           |
|      |              | 99249003             | 1      | 2            | 20           | 23          |
|      |              | 99249004             | 1      | 2            | 26           | 30          |
|      | 250          | 99250001             | 5      | -<br>5       | 11           | 11          |
|      | <del>-</del> | 99250002             | 3      | 4            | 8            | 8           |
|      |              | 99250003             | 4      | 5            | 11           | 11          |
|      |              | 99250004             | 4      | 5            | 8            | 8           |
|      |              | 99250005             | 4      | 5            | 8            | 8           |
|      | 251          | 99251001             | 2      | 2            | 5            | 5           |
|      | 20,          | 99251002             | 1      | 2            | 5            | 5           |
|      |              | 99251003             | 2      | 2            | 5            | 5           |
|      |              | 99251004             | 2      | 2            | 11           | 11          |
|      |              | 99251005             | 1      | 2            | 5            | 6           |
|      |              | 99251006             | 2      | 2            | 12           | 18          |
|      | 252          | 99252001             | 1      | 2            | 1            | 9           |
|      | 252          | 99252001             | 1      | 2            | 45           | 9<br>47     |
|      |              | 99252003             | 1      | 2            | 45           |             |
|      | 257          | 99257001             |        | 5            | •            | 5           |
|      | 207          | 99257001             | 5<br>3 |              | 6<br>8       | 7           |
|      |              | 99257003             | 3      | 4<br>5       | 6            | 8           |
|      |              | 99257004             | ა<br>5 |              |              | 8<br>9      |
|      |              | 99257004             | 5      | 6            | 8            |             |
|      |              | 99257006             | 5<br>5 | 6<br>6       | 8            | 9           |
|      |              | 99257007             | 5<br>5 |              | 8            | 9           |
|      |              | 99257007             |        | 6            | 8            | 9           |
|      |              |                      | 5      | 6            | 8            | 8           |
|      |              | 99257009<br>99257010 | 5      | 6            | 8            | 8           |
|      | 260          |                      | 5      | 6            | 8            | 8           |
|      | 260          | 99260001             | 5      | 6            | 7            | 7           |
|      |              | 99260002             | 5      | 6            | 8            | 9           |
|      |              | 99260003             | 4      | 5            | 8            | 8           |
|      |              | 99260004             | 5      | 6            | 9            | 9           |
|      |              | 99260005             | 4      | 5            | 8            | 8           |

|         | GEOPHYSICAL      |            |        | POLYCORDER I |    |             |
|---------|------------------|------------|--------|--------------|----|-------------|
| DATE    | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM    |    | PEAK BOTTOM |
|         |                  | 99260006   | 4      | 5            | 7  | 8           |
|         |                  | 99260007   | 4      | 5            | 8  | 8           |
|         |                  | 99260008   | 0      | 5            | 8  | 8           |
|         |                  | 99260009   | 4      | 5            | 10 | 11          |
|         |                  | 99260010   | 4      | 3            | 11 | 14          |
|         |                  | 99260011   | 4      | 5            | 6  | 7           |
|         |                  | 99260012   | 4      | 4            | 15 | 11          |
|         | 271              | 99271001   | 1      | 0            | 3  | 3           |
|         | Total Grids/Day: | 20         |        |              |    |             |
| 1/27/97 | 9                | 99009001   | 2      | 4            | 6  | 7           |
|         |                  | 99009002   | 3      | 5            | 8  | 10          |
|         |                  | 99009003   | 3      | 5            | 7  | 9           |
|         |                  | 99009004   | 1      | 2            | 5  | 7           |
|         | 11               | 99011001   | 1      | 1            | 8  | 9           |
|         |                  | 99011002   | 3      | 3            | 9  | 10          |
|         |                  | 99011003   | 3      | 3            | 10 | 12          |
|         |                  | 99011004   | 2      | 4            | 8  | 9           |
|         |                  | 99011005   | 2      | 4            | 12 | 14          |
|         |                  | 99011006   | 2      | 3            | 12 | 14          |
|         |                  | 99011007   | 2      | 3            | 12 | 14          |
|         |                  | 99011008   | 2      | 2            | 6  | 6           |
|         |                  | 99011009   | 3      | 4            | 14 | 18          |
|         |                  | 99011010   | 3      | 4            | 11 | 14          |
|         |                  | 99011011   | 2      | 3            | 10 | 13          |
|         |                  | 99011012   | 2      | 2            | 11 | 13          |
|         |                  | 99011013   | 4      | 5            | 13 | 15          |
|         |                  | 99011014   | 4      | 5            | 12 | 14          |
|         | 47               | 99047001   | 3      | 4            | 8  | 10          |
|         | • •              | 99047002   | 2      | 4            | 6  | 8           |
|         |                  | 99047003   | 2      | 3            | 6  | 8           |
|         |                  | 99047004   | 2      | 3            | 10 | 11          |
|         |                  | 99047005   | 2      | 3            | 6  | 8           |
|         |                  | 99047006   | 2      | 3            | 6  | 8           |
|         |                  | 99047007   | 2      | 3            | 14 | 18          |
|         |                  | 99047008   | 2      | 3            | 11 | 12          |
|         |                  | 99047009   | 5      | 6            | 11 | 14          |
|         |                  | 99047010   | 5      | 6            | 7  | 8           |
|         |                  | 99047011   | 3      | 4            | 10 | 12          |
|         |                  | 99047012   | 5      | 7            | 11 | 12          |
|         |                  | 99047013   | 5      | 7            | 9  | 11          |
|         |                  | 99047014   | 3      | 4            | 8  | 9           |
|         |                  |            |        |              |    |             |

| 99047016     3     4     10       99047017     3     4     8       99047018     3     5     12 | EAK BOTTOM<br>11<br>8<br>14<br>11 |
|--|-----------------------------------|
| 99047017 3 4 8<br>99047018 3 5 12  | 8<br>14                           |
| 99047018 3 5 12  | 14                                |
|  |                                   |
|  | 11                                |
| 99047019 3 5 9   |                                   |
| 99047020 3 5 8   | 10                                |
| 99047021 3 5 8   | 10                                |
| 99047022 3 5 10  | 12                                |
| 99047023 3 5 11  | 12                                |
| 99047024 3 5 13  | 12                                |
| 99047025 3 6 18  | 20                                |
| 99047026 7 6 19  | 21                                |
| 99047027 7 6 23  | 27                                |
| 99047028 4 5 11  | 13                                |
| 48 99048001 4 5 18   | 19                                |
| 99048002 3 5 16  | 17                                |
| 99048003 4 5 11  | 12                                |
| 99048004 4 5 8   | 9                                 |
| 99048005 5 6 8   | 8                                 |
| 99048006 4 5 11  | 9                                 |
| 99048007 5 6 18  | 21                                |
| 99048008 4 5 7   | 8                                 |
| 99048009 3 4 8   | 8                                 |
| 99048010 8 8 101   | 90                                |
| 99048011 5 6 8   | 10                                |
| 99048012 5 6 10  | 12                                |
| 99048013 5 6 15  | 16                                |
| 99048014 3 4 20  | 17                                |
| 99048015 5 6 18  | 20                                |
| 99048016 5 6 23  | 24                                |
| 99048017 2 3 11  | 14                                |
| 99048018 2 3 9   | 11                                |
| 99048019 2 3 14  | 17                                |
| 99048020 2 3 14  | 15                                |
| 99048021 3 5 11  | 11                                |
| 99048022 3 5 32  | 35                                |
| 99048023 3 5 15  | 16                                |
| 99048024 3 5 16  | 20                                |
| 99048025 5 6 11  | 14                                |
| 99048026 5 6 11  | 11                                |
| 99048027 4 5 12  | 14                                |
| 99048028 5 6 17  | 18                                |
| 99048029 5 6 23  | 26                                |
| 99048030 5 6 17  | 20                                |

|      | GEOPHYSICAL |            |        | POLYCORDER       | READING (mV) | 1           |
|------|-------------|------------|--------|------------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
|      |             | 99048031   | 6      | 7                | 11           | 12          |
|      |             | 99048032   | 6      | 7                | 9            | 9           |
|      | 81          | 99081001   | 8      | 10               | 34           | 35          |
|      |             | 99081002   | 8      | 10               | 21           | 21          |
|      |             | 99081003   | 17     | 14               | 25           | 22          |
|      |             | 99081004   | 58     | 53               | 197          | 135         |
|      |             | 99081005   | 33     | 33               | 580          | 524         |
|      |             | 99081006   | 33     | 33               | 56           | 59          |
|      |             | 99081007   | 33     | 33               | 155          | 161         |
|      |             | 99081008   | 33     | 33               | 240          | 230         |
|      |             | 99081009   | 33     | 33               | 141          | 101         |
|      |             | 99081010   | 33     | 33               | 211          | 195         |
|      |             | 99081011   | 33     | 33               | 452          | 416         |
|      |             | 99081012   | 31     | 26               | 41           | 41          |
|      |             | 99081013   | 31     | 26               | 80           | 71          |
|      |             | 99081014   | 31     | 26               | 286          | 281         |
|      |             | 99081015   | 31     | 26               | 740          | 785         |
|      |             | 99081016   | 31     | 26               | 90           | 90          |
|      |             | 99081017   | 31     | 26               | 85           | 75          |
|      |             | 99081018   | 31     | 26               | 127          | 121         |
|      |             | 99081019   | 47     | 43               | 119          | 120         |
|      |             | 99081020   | 47     | 43               | 190          | 147         |
|      |             | 99081021   | 44     | 32               | 204          | 169         |
|      |             | 99081022   | 58     | 46               | 410          | 354         |
|      |             | 99081023   | 13     | 14               | 20           | 23          |
|      |             | 99081024   | 13     | 14               | 46           | 44          |
|      | 82          | 99082001   | 5      | 8                | 13           | 17          |
|      |             | 99082002   | 5      | 3                | 14           | 17          |
|      |             | 99082003   | 4      | 7                | 16           | 18          |
|      |             | 99082004   | 9      | 11               | 14           | 17          |
|      |             | 99082005   | 7      | 11               | 17           | 21          |
|      |             | 99082006   | 5      | 7                | 12           | 14          |
|      |             | 99082007   | 8      | 9                | 13           | 16          |
|      |             | 99082008   | 8      | 10               | 14           | 17          |
|      |             | 99082009   | 8      | 10               | 13           | 15          |
|      |             | 99082010   | 7      | 9                | 14           | 15          |
|      |             | 99082011   | 6      | 8                | 17           | 19          |
|      |             | 99082012   | 7      | 10               | 18           | 20          |
|      |             | 99082013   | 8      | 11               | 18           | 21          |
|      |             | 99082014   | 3      | 6                | 11           | 15          |
|      |             | 99082015   | 6      | 10               | 15           | 18          |
|      |             | 99082016   | 7      | 8                | 20           | 25          |
|      |             | 99082017   | 8      | 10               | 38           | 22          |
|      |             |            |        |                  |              |             |

| EAK TOP<br>462<br>326<br>49<br>25<br>221<br>12<br>12<br>14 | 9EAK BOTTOM<br>354<br>366<br>49<br>133<br>218<br>12<br>16 |
|--|---|
| 326<br>49<br>25<br>221<br>12<br>12                         | 366<br>49<br>133<br>218<br>12<br>16                       |
| 49<br>25<br>221<br>12<br>12                                | 49<br>133<br>218<br>12<br>16                              |
| 25<br>221<br>12<br>12<br>14                                | 133<br>218<br>12<br>16                                    |
| 221<br>12<br>12<br>14                                      | 218<br>12<br>16   |
| 12<br>12<br>14   | 12<br>16  |
| 12<br>14   | 16  |
| 14   |   |
|  |   |
| 71   | 20  |
|  | 56  |
| 20   | 23  |
| 20   | 25  |
| 15   | 18  |
| 21   | 25  |
|  | 17  |
|  | 20  |
|  | 15  |
|  | 20  |
|  | 15  |
|  | 28  |
|  | 21  |
|  | 21  |
|  | 14  |
|  | 16  |
|  | 14  |
|  | 21  |
|  | 16  |
|  | 20  |
|  | 23  |
|  | 20  |
|  | 53  |
|  | 14  |
|  | 15  |
|  | 20  |
|  | 18  |
|  | 17  |
|  | 21  |
|  | 19  |
|  | 18  |
|  | 12  |
|  | 23  |
|  | 17  |
|  | 13  |
|  | 6   |
|  |   |

|      | GEOPHYSICAL |            |        | POLYCORDER I | READING (mV) | <b>)</b>    |
|------|-------------|------------|--------|--------------|--------------|-------------|
| DATE | GRID ID     | ANOMALY ID | BG TOP | BG BOTTOM    | PEAK TOP     | PEAK BOTTOM |
|      |             | 99089002   | 1      | 2            | 9            | 8           |
|      |             | 99089003   | 1      | 2            | 6            | 4           |
|      |             | 99089004   | 1      | 2            | 8            | 6           |
|      |             | 99089005   | 1      | 2            | 9            | 6           |
|      | 90          | 99090001   | 3      | 1            | 8            | 6           |
|      |             | 99090002   | 2      | 0            | 7            | 5           |
|      |             | 99090003   | 1      | 1            | 6            | 5           |
|      |             | 99090004   | 2      | 1            | 8            | 6           |
|      |             | 99090005   | 1      | 2            | 15           | 14          |
|      |             | 99090006   | 2      | 1            | 6            | 5           |
|      |             | 99090007   | 2      | 1            | 8            | 6           |
|      |             | 99090008   | 1      | 1            | 12           | 11          |
|      |             | 99090009   | 1      | 2            | 13           | 11          |
|      | 91          | 99091001   | 4      | 2            | 6            | 5           |
|      |             | 99091002   | 2      | 1            | 7            | 5           |
|      |             | 99091003   | 5      | 3            | 8            | 5           |
|      |             | 99091004   | 5      | 3            | 8            | 5           |
|      |             | 99091005   | 5      | 3            | 9            | 7           |
|      |             | 99091006   | 4      | 2            | 12           | 9           |
|      |             | 99091007   | 2      | 1            | 8            | 6           |
|      |             | 99091008   | 2      | 1            | 8            | 6           |
|      |             | 99091009   | 2      | 1            | 8            | 5           |
|      |             | 99091010   | 1      | 1            | 9            | 6           |
|      |             | 99091011   | 3      | 2            | 8            | 5           |
|      |             | 99091012   | 3      | 2            | 14           | 10          |
|      | 92          | 99092001   | 1      | 2            | 6            | 3           |
|      |             | 99092002   | 1      | 2            | 9            | 6           |
|      |             | 99092003   | 4      | 2            | 6            | 5           |
|      | 100         | 99100001   | 3      | 3            | 5            | 6           |
|      |             | 99100002   | 2      | 3            | 7            | 8           |
|      | 123         | 99123001   | 5      | 8            | 9            | 10          |
|      |             | 99123002   | 5      | 7            | 10           | 12          |
|      |             | 99123003   | 7      | 10           | 9            | 11          |
|      |             | 99123004   | 6      | 8            | 23           | 23          |
|      |             | 99123005   | 7      | 8            | 11           | 13          |
|      |             | 99123006   | 8      | 10           | 11           | 12          |
|      |             | 99123007   | 8      | 9            | 12           | 12          |
|      |             | 99123008   | 7      | 8            | 9            | 11          |
|      |             | 99123009   | 8      | 9            | 8            | 10          |
|      |             | 99123010   | 8      | 9            | 12           | 14          |
|      | 166         | 99166001   | 5      | 8            | 12           | 12          |
|      |             | 99166002   | 13     | 14           | 17           | 20          |
|      |             | 99166003   | 4      | 7            | 9            | 13          |

|         | GEOPHYSICAL      |            |               | POLYCORDER F | READING (mV) |             |
|---------|------------------|------------|---------------|--------------|--------------|-------------|
| DATE    | GRID ID          | ANOMALY ID | <b>BG TOP</b> | BG BOTTOM    |              | PEAK BOTTOM |
|         |                  | 99166004   | 13            | 17           | 102          | 90          |
|         |                  | 99166005   | 13            | 17           | 19           | 22          |
|         | 168              | 99168001   | 9             | 7            | 115          | 122         |
|         |                  | 99168002   | 13            | 10           | 5078         | 4534        |
|         |                  | 99168003   | 2             | 5            | 8            | 9           |
|         |                  | 99168004   | 4             | 6            | 12           | 13          |
|         |                  | 99168005   | 8             | 9            | 10           | 14          |
|         |                  | 99168006   | 4             | 6            | 9            | 11          |
|         |                  | 99168007   | 3             | 6            | 13           | 15          |
|         | 258              | 99258001   | 9             | 8            | 12           | 11          |
|         |                  | 99258002   | 9             | 8            | 11           | 10          |
|         |                  | 99258003   | 5             | 5            | 12           | 11          |
|         |                  | 99258004   | 6             | 6            | 20           | 18          |
|         |                  | 99258005   | 5             | 5            | 12           | 12          |
|         |                  | 99258006   | 6             | 7            | 15           | 15          |
|         |                  | 99258007   | 6             | 6            | 19           | 20          |
|         |                  | 99258008   | 6             | 6            | 18           | 17          |
|         |                  | 99258009   | 10            | 9            | 13           | 13          |
|         |                  | 99258010   | 9             | 8            | 12           | 11          |
|         |                  | 99258011   | 9             | 8            | 12           | 11          |
|         |                  | 99258012   | 9             | 8            | 12           | 11          |
|         | 259              | 99259001   | 5             | 6            | 8            | 8           |
|         |                  | 99259002   | 5             | 6            | 11           | 11          |
|         |                  | 99259003   | 8             | 8            | 9            | 9           |
|         |                  | 99259004   | 7             | 8            | 9            | 10          |
|         |                  | 99259005   | 6             | 7            | 9            | 9           |
|         |                  | 99259006   | 6             | 7            | 9            | 9           |
|         |                  | 99259007   | 4             | 5            | 11           | 11          |
|         |                  | 99259008   | 4             | 5            | 11           | 11          |
|         | Total Grids/Day: | 18         | ·             | ·            | ,            | ••          |
| 1/28/97 | 93               | 99093001   | 5             | 1            | 12           | 11          |
|         |                  | 99093002   | 3             | 1            | 8            | 6           |
|         |                  | 99093003   | 5             | 2            | 12           | 11          |
|         |                  | 99093004   | 5             | 2            | 11           | 18          |
|         |                  | 99093005   | 4             | 2            | 11           | 8           |
|         |                  | 99093006   | 1             | 1            | 12           | 11          |
|         |                  | 99093007   | 1             | 2            | 11           | 9           |
|         |                  | 99093008   | 1             | 1            | 7            | 5           |
|         |                  | 99093009   | 1             | 1            | 9            | 8           |
|         |                  | 99093010   | 1             | 1            | 12           | 11          |
|         |                  | 99093011   | 2             | 0            | 6            | 4           |
|         | 94               | 99094001   | 2             | 1            | 8            | 6           |

#### **GEOPHYSICAL INVESTIGATION** ORDNANCE OPERABLE UNIT (OOU) 6

Former Camp Croft

|             | GEOPHYSICAL      |            |        | POLYCORDER       | READING (mV) | ,           |
|-------------|------------------|------------|--------|------------------|--------------|-------------|
| DATE        | GRID ID          | ANOMALY ID | BG TOP | <b>BG BOTTOM</b> | PEAK TOP     | PEAK BOTTOM |
| <del></del> |                  | 99094002   | 2      | 1                | 6            | 4           |
|             |                  | 99094003   | 3      | 1                | 15           | 14          |
|             |                  | 99094004   | 2      | 0                | 6            | 4           |
|             |                  | 99094005   | 3      | 1                | 11           | 8           |
|             |                  | 99094006   | 3      | 1                | 35           | 32          |
|             |                  | 99094007   | 3      | 1                | 8            | 7           |
|             |                  | 99094008   | 3      | 1                | 47           | 46          |
|             |                  | 99094009   | 3      | 1                | 17           | 15          |
|             |                  | 99094010   | 3      | 2                | 6            | 4           |
|             |                  | 99094011   | 5      | 3                | 8            | 7           |
|             |                  | 99094012   | 2      | 1                | 9            | 8           |
|             | 95               | 99095001   | 3      | 3                | 6            | 4           |
|             | 96               | 99096001   | 1      | 3                | 11           | 9           |
|             | 130              | 99130001   | 3      | 3                | 43           | 51          |
|             |                  | 99130002   | 3      | 4                | 21           | 17          |
|             | 131              | 99131001   | 8      | 8                | 14           | 14          |
|             |                  | 99131002   | 10     | 9                | 25           | 31          |
|             |                  | 99131003   | 9      | 9                | 18           | 19          |
|             |                  | 99131004   | 9      | 10               | 19           | 20          |
|             | 170              | 99170001   | 4      | 5                | 6            | 7           |
|             |                  | 99170002   | 4      | 5                | 7            | 8           |
|             |                  | 99170003   | 8      | 8                | 10           | 10          |
|             |                  | 99170004   | 7      | 6                | 8            | 8           |
|             |                  | 99170005   | 7      | 6                | 9            | 9           |
|             |                  | 99170006   | 6      | 7                | 9            | 9           |
|             |                  | 99170007   | 6      | 7                | 12           | 12          |
|             | 171              | 99171001   | 6      | 2                | 17           | 19          |
|             |                  | 99171002   | 5      | 6                | 31           | 36          |
|             |                  | 99171003   | 3      | 3                | 31           | 24          |
|             |                  | 99171004   | 6      | 4                | 31           | 23          |
|             |                  | 99171005   | 2      | 3                | 77           | 8           |
|             |                  | 99171006   | 0      | 2                | 25           | 29          |
|             |                  | 99171007   | 1      | 1                | 20           | 24          |
|             |                  | 99171008   | 3      | 1                | 6            | 8           |
|             |                  | 99171009   | 1      | 0                | 15           | 18          |
|             |                  | 99171010   | 1      | 0                | 19           | 26          |
|             | Total Grids/Day: | 8          |        |                  |              |             |
| 1/29/97     | 237              | 99237001   | 1      | 0                | 6            | 8           |
|             |                  | 99237002   | 1      | 0                | 11           | 11          |
|             |                  | 99237003   | 1      | 0                | 8            | 8           |
|             |                  | 99237004   | 1      | 0                | 3            | 3           |
|             | 238              | 99238001   | 1      | 1                | 6            | 6           |

|           | GEOPHYSIC        | AL         |        | I         | POLYCORDER REA | ADING (mV)  |
|-----------|------------------|------------|--------|-----------|----------------|-------------|
| DATE      | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM | PEAK TOP       | PEAK BOTTOM |
|           |                  | 99238002   | (      | 1         | 7              | 6           |
|           |                  | 99238003   | (      | 0         | 27             | 32          |
|           |                  | 99238004   | •      | 1 2       | 7              | 9           |
|           | 240              | 99240001   | •      | 1 2       | 6              | 8           |
|           | 261              | 99261001   | - 2    | 2 3       | 15             | 16          |
|           | 262              | 99262001   | į      | 5 8       | 55             | 65          |
|           |                  | 99262002   | (      | 3 6       | 43             | 43          |
|           | 263              | 99263001   |        | 3 9       | 15             | 18          |
|           |                  | 99263002   |        | 7 7       | 22             | 25          |
|           |                  | 99263003   |        | 5 6       | 10             | 11          |
|           | 280              | 99280001   |        | 3         | 6              | 4           |
|           |                  | 99280002   |        | 3 3       | 51             | 33          |
|           |                  | 99280003   |        | 3 2       | 7              | 6           |
|           |                  | 99280004   |        | 3 2       | 260            | 293         |
|           |                  | 99280005   |        | 3 2       | 6              | 6           |
|           |                  | 99280006   |        | 3         | 8              | 6           |
|           | 289              | 99289001   |        | . 0       | 5              | 3           |
|           | 290              | 99290001   |        | 2 2       | 5              | 4           |
|           | 230              | 99290002   |        | i 1       | 5              | 5           |
|           |                  | 99290003   |        | ,<br>,    | 4              | 4           |
|           |                  | 99290004   |        | 3         |                |             |
|           | 291              | 99291001   |        |           | 6              | 5           |
|           | 231              |            |        |           | 7              | 6           |
|           |                  | 99291002   |        | 2 2       | 6              | 5           |
|           |                  | 99291003   | 1      | 1         | 10             | 11          |
|           |                  | 99291004   |        | 1         | 5              | 5           |
|           | 292              | 99292001   | ]      | 1         | 20             | 21          |
|           |                  | 99292002   | 1      | 1         | 4              | 4           |
|           |                  | 99292003   | 1      | •         | 9              | 9           |
|           |                  | 99292004   |        | 2 2       | 4              | 3           |
|           |                  | 99292005   |        | 2 2       | 4              | 3           |
|           | 296              | 99296001   |        | . 0       | 20             | 18          |
|           | 298              | 99298001   |        | 5 7       | 46             | 49          |
|           |                  | 99298002   |        | 5 6       | 21             | 24          |
|           |                  | 99298003   |        | 5 6       | 12             | 13          |
|           | 300              | 99300001   | 15     |           | 20             | 19          |
|           |                  | 99300002   | 8      | 3 9       | 13             | 13          |
|           | Total Grids/Day: | 14         |        |           |                |             |
| 1/30/97   | 279              | 99279001   | 10     | ) 10      | 7              | 7           |
|           |                  | 99279002   | 13     |           | 7              | 7           |
|           |                  | 99279003   | 11     |           | 2              | 3           |
|           | Total Grids/Day: | 1          |        |           |                | . –         |
| 2/3/97    | 73               | 99073001   | Ę      | 5 8       | 1              | 4           |
| _, _, _ , |                  | 99073002   |        |           | ·<br>1         | 4           |
|           |                  | JUU. JUUL  | _      | ,         | ,              | 7           |
|           |                  |            |        |           |                |             |

|      | GEOPHYSI | CAL        |           | PO     | LYCORDER READING | 3 (mV)      |
|------|----------|------------|-----------|--------|------------------|-------------|
| DATE | GRID ID  | ANOMALY ID | BG TOP BG | воттом | PEAK TOP PEAK    |             |
|      | <u>-</u> | 99073003   | 9         | 12     | 1                | 4           |
|      |          | 99073004   | 10        | 14     | 1                | 3           |
|      |          | 99073005   | 4         | 7      | 1                | 3           |
|      |          | 99073006   | 4         | 7      | 1                | 4           |
|      |          | 99073007   | 3         | 6      | 1                | 4           |
|      | 74       | 99074001   | 3         | 6      | 1                | 3           |
|      |          | 99074002   | 3         | 6      | 1                | 3           |
|      |          | 99074003   | 3         | 6      | 0                | 4           |
|      |          | 99074004   | 6         | 9      | 3                | 5           |
|      |          | 99074005   | 8         | 8      | 3                | 5           |
|      |          | 99074006   | 155       | 147    | 2                | 5           |
|      |          | 99074007   | 3         | 6      | 0                | 4           |
|      |          | 99074008   | 3         | 7      | 1                | 4           |
|      | 75       | 99075001   | 7         | 10     | 2                | 4           |
|      |          | 99075002   | 4         | 7      | 2                | 3           |
|      |          | 99075003   | 5         | 8      | 1                | 3           |
|      |          | 99075004   | 4         | 7      | 0                | 4           |
|      | 76       | 99076001   | 5         | 9      | 1                | 3           |
|      |          | 99076002   | 3         | 6      | 1                | 3<br>3<br>3 |
|      |          | 99076003   | 3         | 8      | 1                | 3           |
|      |          | 99076004   | 4         | 7      | 1                | 4           |
|      |          | 99076005   | 4         | 7      | 2                | 3           |
|      |          | 99076006   | 6         | 11     | 0                | 4           |
|      | 97       | 99097001   | 8         | 10     | 2                | 5           |
|      |          | 99097002   | 5         | - 9    | 2                | 5           |
|      |          | 99097003   | 20        | 23     | 2                | 5           |
|      | 99       | 99099001   | 4         | 8      | 2                | 4           |
|      |          | 99099002   | 5         | 8      | 2                | 4           |
|      | 157      | 99157001   | 3         | 7      | 0                | 3           |
|      |          | 99157002   | 3         | 6      | 1                | 2           |
|      |          | 99157003   | 11        | 15     | 1                | 2           |
|      | 158      | 99158001   | 5         | 8      | 1                | 2           |
|      |          | 99158002   | 2         | 6      | 0                | 3           |
|      |          | 99158003   | 7         | 10     | 1                | 2           |
|      | 159      | 99159001   | 48        | 49     | 3                | 4           |
|      |          | 99159002   | 11        | 13     | 2                | 4           |
|      |          | 99159003   | 5         | 7      | 1                | 3           |
|      |          | 99159004   | 4         | 8      | 1                | 1           |
|      |          | 99159005   | 7         | 11     | 1                |             |
|      | 160      | 99160001   | 12        | 15     | 3                | 3<br>3<br>2 |
|      |          | 99160002   | 8         | 11     | 1                | 2           |
|      | 217      | 99217001   | 5         | 8      | 2                | 5           |
|      |          | 99217002   | 6         | 8      | 2                | 5           |
|      |          | 99217003   | 4         | 8      | _<br>2           | 3           |
|      |          | 99217004   | 5         | 8      | 1                | 4           |
|      |          |            | ŭ         | •      | •                | •           |

|        | GEOPHYSIC        |                      |           |            | LYCORDER READING |        |
|--------|------------------|----------------------|-----------|------------|------------------|--------|
| DATE   | GRID ID          | ANOMALY ID           |           | BG BOTTOM_ | PEAK TOP PEAK    |        |
|        | 218              | 99217005             | 5         | 8          | 2                | 3      |
|        | 210              | 99218001<br>99218002 | 4         | 6          | 2                | 5      |
|        |                  |                      | 5         | 8          | 2                | 5      |
|        |                  | 99218003             | 11        | 15         | 2<br>2           | 4      |
|        |                  | 99218004             | 4         | 7          |                  | 5      |
|        |                  | 99218005             | 6         | 10         | 2                | 3      |
|        |                  | 99218006             | 6         | 8          | 1                | 3      |
|        |                  | 99218007             | 6         | 8          | 2                | 3      |
|        | 219              | 99218008             | 6         | 8          | 2                | 4      |
|        | 219              | 99219001             | 5<br>5    | 8<br>8     | 3<br>2           | 6      |
|        |                  | 99219002             | 8         |            |                  | 4      |
|        |                  | 99219003<br>99219004 | 5         | 11<br>8    | 2<br>3           | 5<br>5 |
|        |                  | 99219005             | 6         | 9          | 2                |        |
|        |                  | 99219006             | 10        | 13         | 2                | 4      |
|        | 220              | 99220001             | 4         | 13<br>7    | 2                | 5<br>5 |
|        | 220              | 99220002             | 8         | 12         | 2                | 5<br>5 |
|        |                  | 99220003             | 6         | 8          | 2                | 5<br>5 |
|        |                  | 99220004             | 5         | 8          | 1                | 4      |
|        | Total Grids/Day: | 14                   | 3         | O          | '                | 4      |
| ,      | rotal dilusibay. | 14                   |           |            |                  |        |
| 2/5/97 | 101              | 99101001             | 7         | 9          | 1                | 3      |
|        |                  | 99101002             | 9         | 11         | 2                | 4      |
|        | 103              | 99103001             | 6         | 8          | 3                | 4      |
|        |                  | 99103002             | 8         | 8          | 3                | 4      |
|        |                  | 99103003             | 10        | 12         | 2                | 0      |
|        |                  | 99103004             | 7         | 7          | 1                | 2      |
|        |                  | 99103005             | 7         | 7          | 3                | 5      |
|        | 400              | 99103006             | 8         | 8          | 3                | 3      |
|        | 199              | 99199001             | 6         | 8          | 0                | 3      |
|        |                  | 99199002             | 5         | 7          | 0                | 3      |
|        |                  | 99199003             | 33        | 36         | 6                | 8      |
|        |                  | 99199004             | 35        | 36         | 2                | 5      |
|        |                  | 99199005             | 33        | 35<br>36   | 8                | 8      |
|        |                  | 99199006             | 35<br>50  | 36<br>60   | 8                | 8      |
|        |                  | 99199007             | 59        | 60         | 9                | 9      |
|        |                  | 99199008             | 126       | 118        | 9                | 9      |
|        |                  | 99199009<br>99199010 | 107       | 106        | 9                | 9      |
|        |                  |                      | 52<br>51  | 51<br>40   | 7                | 8      |
|        |                  | 99199011             | 51<br>65  | 49<br>50   | 7                | 8      |
|        |                  | 99199012             | 65        | 59         | 7                | 8      |
|        |                  | 99199013             | 136       | 133        | 7                | 8      |
|        |                  | 99199014<br>99199015 | 65<br>60  | 57         | 7                | 8      |
| 7      |                  |                      | 69<br>120 | 68<br>126  | 7                | 8      |
|        |                  | 99199016             | 129       | 126        | 7                | 8      |

|        | GEOPHYSIC        | AL                   |          | PO        | LYCORDER READING | 3 (mV)   |
|--------|------------------|----------------------|----------|-----------|------------------|----------|
| DATE   | GRID ID          | ANOMALY ID           | BG TOP   | BG BOTTOM | PEAK TOP PEAK    |          |
|        |                  | 99199017             | 142      | 145       | 7                | 8        |
|        |                  | 99199018             | 46       | 40        | 7                | 8        |
|        |                  | 99199019             | 53       | 53        | 7                | 8        |
|        |                  | 99199020             | 32       |           | 7                | 8        |
|        |                  | 99199021             | 57       | 52        | 7                | 8        |
|        |                  | 99199022             | 92       | 94        | 7                | 8        |
|        |                  | 99199023             | 79       |           | 7                | 8        |
|        |                  | 99199024             | 52       |           | 7                | 8        |
|        |                  | 99199025             | 35       |           | 16               | 16       |
|        |                  | 99199026             | 105      |           | 16               | 16       |
|        |                  | 99199027             | 74       |           | 16               | 16       |
|        |                  | 99199028             | 13       |           | 8                | 8        |
|        |                  | 99199029             | 13       |           | 1                | 3        |
|        | 226              | 99226001             | 9        |           | 6                | 7        |
|        |                  | 99226002             | 11       | 11        | 8                | 8        |
|        |                  | 99226003             | 10       |           | 8                | 8        |
|        | 227              | 99227001             | 7        |           | 3                | 3        |
|        |                  | 99227002             | 11       | 11        | 4                | 5        |
|        |                  | 99227003             | 47       |           | _                | _        |
|        | 228              | 99228001             | 8        |           | 2                | 4        |
|        |                  | 99228002             | 7        |           | 3                | 5        |
|        | 281              | 99281001             | 14       |           | 6                | 6        |
|        |                  | 99281002             | 50       |           | 7                | 8        |
|        |                  | 99281003             | 25       |           | 7                | 7        |
|        |                  | 99281004             | 26       |           | 5                | 5        |
|        |                  | 99281005             | 11       |           | 10               | 9        |
|        | 282              | 99282001             | 11       |           | 5                | 6        |
|        | 284              | 99284001             | 17       |           | 9                | 8        |
|        |                  | 99284002             | 17       |           | 11               | 10       |
|        |                  | 99284003             | 17       |           | 13               | 12       |
|        |                  | 99284004             | 17       |           | 13               | 12       |
|        |                  | 99284005             | 17       |           | 13               | 12       |
|        |                  | 99284006             | 21       |           | 15<br>11         | 13<br>10 |
|        |                  | 99284007<br>99284008 | 17<br>22 |           | 12               | 11       |
|        |                  | 99284008             | 22       |           | 12               | 11       |
|        |                  | 99284010             | 22       |           | 12               | 11       |
|        |                  | 99284011             | 17       |           | 10               | 9        |
|        |                  | 99284012             | 18       |           | 15               | 13       |
|        | Total Grids/Day: | 9                    | 10       | , 15      | 13               | 1.5      |
|        | ·                |                      |          |           |                  |          |
| 2/7/97 | 229              | 99229001             | 38       |           | 18               | 16       |
|        |                  | 99229002             | 23       |           | 10               | 8        |
|        |                  | 99229003             | 32       |           | 14               | 14       |
|        | 230              | 99230001             | 23       | 23        | 14               | 12       |

|      | GEOPHYSIC        | AL         |        | PO        | LYCORDER READ | ING (mV)   |
|------|------------------|------------|--------|-----------|---------------|------------|
| DATE | GRID ID          | ANOMALY ID | BG TOP | BG BOTTOM | PEAK TOP PI   | EAK BOTTOM |
|      |                  | 99230002   | 26     | 25        | 13            | 11         |
|      | 231              | 99231001   | 23     | 24        | 11            | 9          |
|      |                  | 99231002   | 19     | 18        | 11            | 9          |
|      |                  | 99231003   | 20     | 18        | 13            | 11         |
|      | 232              | 99232001   | 14     | 14        | 5             | 6          |
|      |                  | 99232002   | 21     | 23        | 5             | 6          |
|      |                  | 99232003   | 11     | 13        | 7             | 8          |
|      |                  | 99232004   | 26     | 28        | 8             | 8          |
|      |                  | 99232005   | 15     | 18        | 9             | 9          |
|      |                  | 99232006   | 35     | 42        | 12            | 11         |
|      |                  | 99232007   | 23     | 25        | 11            | 11         |
|      |                  | 99232008   | 34     | 35        | 6             | 6          |
|      |                  | 99232009   | 31     | 33        | 7             | 7          |
|      |                  | 99232010   | 23     | 25        | 10            | 9          |
|      | 275              | 99275001   | 15     | 18        | 3             | 3          |
|      | 276              | 99276001   | 13     | 15        | 4             | 5          |
|      | 283              | 99283001   | 9      | 10        | 7             | 7          |
|      |                  | 99283002   | 13     | 13        | 7             | 7          |
|      |                  | 99283003   | 25     | 30        | 7             | 7          |
|      |                  | 99283004   | 14     | 14        | 11            | 11         |
|      | Total Grids/Day: | 4          |        |           |               |            |

### APPENDIX D OE*Cert* ANALYSIS REPORT

500 BOULEVARD SOUTH ◆ SUITE 102 ◆ HUNTSVILLE, AL 35802 (205) 650-6263 ◆ FAX (205) 650-5569

#### FORMER CAMP CROFT OOU6 OECert ANALYSIS FINAL REPORT

For Parsons Engineering Science, Inc.

**TECHNICAL REPORT 97R019** 

Contract Number: 727736-3019-00

QuantiTech, Inc. 500 Boulevard South Suite 102 Huntsville, AL 35802

Prepared by: Shannon Crabb Approved by: Dale Bugbee Director, Projects and Programs

23 July 1997

The views, opinions, and/or findings contained in this report are those of the author(s) and should not be construed as an official Corps of Engineers position, policy, or decision, unless so designated by other official documentation.

Risk Analysis Systems Science Decision Theory Economic Modeling

#### TABLE OF CONTENTS

|      |                   |      | 1   | <u>Page</u> |
|------|-------------------|------|---|-------------|
|      | EXE               | CUTI | VE SUMMARY  | 1           |
| 1.0  | BAC               | KG   | ROUND   | 5           |
| 2.0  | ANA               | LYSI | S   | 6           |
|      | 2.1<br>2.2<br>2.3 | ANA  | ERPRETATION OF ANALYSIS RESULTS.                            | 7           |
| APP  | ENDL              | ΧA   | OECert RISK ESTIMATING DESCRIPTION                          | A-1         |
| APP  | ENDI              | XВ   | DATA COLLECTED FOR FORMER CAMP CROFT OOU6 OECert ASSESSMENT | B-1         |
| APP  | ENDI              | ХC   | ASSUMPTIONS FOR FORMER CAMP CROFT OOU6 OECert ASSESSMENT    | C-1         |
| APPI | ENDE              | ΧD   | RISK ESTIMATES  | D-1         |
| APP] | ENDL              | ΧE   | ESTIMATION OF ORDNANCE REMAINING AT FORMER CAMP CROFT OOU6  | E-1         |
| APP  | ENDI              | ΧF   | COMPARATIVE RISK ASSESSMENT FOR FORMER CAMP CROFT OOU6      | F-1         |
| APP  | ENDI              | ΧG   | SWEEP EFFICIENCIES  | G-1         |

#### LIST OF FIGURES

|       | <u> </u>   | 'age |
|-------|--|------|
| 2.2-1 | Expected Annual Exposures for Former Camp Croft OOU6     | 7    |
| F-1   | Former Camp Croft OOU6 Comparative 20 Year Risk Estimate | F-5  |
| F-2   | Former Camp Croft OOU6 Comparative Risk by Activity      | F-6  |

#### LIST OF TABLES

|       |   | <u>Page</u> |
|-------|---|-------------|
| ES-1  | Removal Options for Former Camp Croft OOU6  | . 1         |
| ES-2  | OE Density Estimates for Former Camp Croft OOU6                                       | . 2         |
| ES-3  | Expected Annual Exposures: Former Camp Croft OOU6                                     | . 3         |
| ES-4  | Site Comparison of Expected Ordnance and Explosives Public Risk Exposures - No Action | . 4         |
| 2.2-1 | Expected Annual Exposures for Former Camp Croft OOU6                                  | . 7         |
| A-1   | Expected Exposures for All Hunters, Annually  | . A-4       |
| B-1   | Data Collect for Former Camp Croft OOU6   | B-3         |
| C-1   | Data Assumptions for Former Camp Croft OOU6   | C-3         |
| D-1   | Total Expected Annual Exposures for Former Camp Croft OOU6                            | D-3         |
| D-2   | Probability of Individual Exposure for Former Camp Croft OOU6                         | D-3         |
| D-3   | Expected Annual Exposures for Pine Farm   | D-4         |
| D-4   | Expected Annual Exposures for Landfill and Composting Areas                           | D-4         |
| D-5   | Expected Annual Exposures for Pond Area   | D-4         |
| D-6   | Expected Annual Exposures for Natural Brush/Forest A                                  | D-4         |
| D-7   | Expected Annual Exposures for Natural Brush/Forest B                                  | D-5         |
| D-8   | Expected Annual Exposures for Pine Farm   | D-5         |
| D-9   | Expected Annual Exposures for Landfill and Composting Areas                           | D-5         |
| D-10  | Expected Annual Exposures for Pond Area   | D-5         |
| D-11  | Probability of Individual Exposure for Natural Brush/Forest A                         | D-6         |
| D-12  | Probability of Individual Exposure for Natural Brush/Forest B                         | D-6         |
| E-1   | Estimated Remaining Ordnance at Former Camp Croft OOU6                                | E-2         |
| F-1   | Comparative Risk Ranked by Chance   | F-3         |
| F-2   | Comparative Risk Ranked by Injury/Death   | F-4         |

### FORMER CAMP CROFT OOU6 OECert ANALYSIS

#### DRAFT FINAL REPORT

#### **EXECUTIVE SUMMARY**

QuantiTech, Inc., was contracted by Parsons Engineering Science, Inc. to apply the Ordnance and Explosives Cost-Effectiveness Risk Tool (OECert) in evaluation of the ordnance and explosives (OE) contamination at the former Camp Croft Ordnance Operable Unit (OOU6) Training Facility in South Carolina. QuantiTech was to provide an estimate of risk for each former Camp Croft OOU6 area both in terms of to the individual and to the total population. OECert measures risk in terms of how often people are exposed to OE when participating in commonly performed activities at a site, e.g., hiking, hunting, etc.

The assessment areas for the former Camp Croft OOU6 are the same as in the Engineering Design report.

The removal options to be considered in the analysis were provided by Parsons ES to QuantiTech and are identified in Table ES-1.

Table ES-1. Removal Options for Former Camp Croft OOU6

| Area                             | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|----------------------------------|--------------|--------------------|-------------------|-------------------|
| Roads & Site Operations Building | X            | X                  | X                 | X                 |
| Pine Farm                        | X            | X                  | X                 | X                 |
| Landfill and Composting Areas    | X            | X                  | X                 | X                 |
| Pond Area                        | X            | X                  | X                 | X                 |
| Natural Brush/Forest A           | X            | X                  | X                 | X                 |
| Natural Brush/Forest B           | X            | X                  | X                 | X                 |

Table ES-2 shows the OE density estimates for each area. The density estimates were derived from the 15 OE-related items found during the Engineering Design intrusive OE sampling of which one item was classified as UXO. The density estimates also include the three UXO items found during the Time Critical Removal Action (TCRA) in the Landfill and Compositing Areas. Anomaly count, intrusive area investigated, specific ordnance location and depth, and additional area characterization criteria were primary

elements in the estimation of the ordnance density and area(s) definition. In each area, ordnance density, activities, and public participation parameters were prepared for the risk assessment database. The density estimate identifies the extrapolated results of the TCRA and Engineering Design sampling field work. The OE items on the surface are reflected in the surface percentage of ordnance density as shown in Table ES-2.

Table ES-2. OE Density Estimates for Former Camp Croft OOU6

|                                       | Sampled Density Estimate |                    |  |  |  |
|---------------------------------------|--------------------------|--------------------|--|--|--|
| Area                                  | OE per Acre              | % OE on<br>Surface |  |  |  |
| Roads and Site<br>Operations Building | 0.00                     | 0%                 |  |  |  |
| Pine Farm                             | 0.154 (1 in 6.5 acres)   | 6%                 |  |  |  |
| Landfill and<br>Composting Areas      | 0.154 (1 in 6.5 acres)   | 6%                 |  |  |  |
| Pond Area                             | 0.154 (1 in 6.5 acres)   | 6%                 |  |  |  |
| Natural Brush/Forest A                | 0.154 (1 in 6.5 acres)   | 6%                 |  |  |  |
| Natural Brush/Forest B                | 0.0                      | 0%                 |  |  |  |

Table ES-3 identifies the expected annual exposures for the density estimates. OECert methodology defines an expected exposure as a participant in an activity being in the proximity of ordnance, with or without knowledge to the presence of ordnance. These annual exposures, shown in Table ES-3, add together all the participants' exposures across all the activities during an entire year. The ordnance density, activity area (e.g., path width, subsurface intrusion depth), and annual number of participants are factors in the calculations. No exposures are estimated for the Natural Brush/Forest B since no OE items were found during the Engineering Design investigation in this area. The Roads and Site Operations Building are considered to have a physical barrier (building or improved surface covering) to the OE; therefore, no OE exposure is accumulated unless additional intrusive activities are performed.

Table ES-3. Expected Annual Exposures: Former Camp Croft OOU6

| Area                               | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|------------------------------------|--------------|--------------------|-------------------|-------------------|
| Roads and Site Operations Building | 0            | 0                  | 0                 | 0                 |
| Pine Farm                          | 4            | 2                  | 1                 | 1                 |
| Landfill and Composting Areas      | 1            | 1                  | 1                 | 0                 |
| Pond Area                          | 18           | 2                  | 0                 | 0                 |
| Natural Brush/Forest<br>A          | 7            | 4                  | 2                 | 2                 |
| Natural Brush/Forest<br>B          | 0            | 0                  | 0                 | 0                 |
| SITE TOTAL                         | 30_          | 9                  | 4                 | 3                 |

In response to the need to compare OE risks to common risks and also to utilize the experience from OECert analysis, QuantiTech has identified a list of common risks that can provide the basis for comparing OE risk to the public. Using this list of common risks, QuantiTech has developed a methodology that portrays the comparison of these common risks to quantitative OE risks. The application of the methodology as compared to former Camp Croft is detailed in Appendix F.

The risk assessment for former Camp Croft OOU6 places it in the low expected exposure risk grouping when compared to other Formerly Used Defense Sites (FUDS) that have had a site OECert risk quantification. Table ES-4 lists former Camp Croft OOU6 with the other sites in lowest to highest exposures. The site annual expected exposures shown in this table are based on the expected, or most likely, OE density estimate (based on OE sampling) for performing no removal actions at the site. Some of these site risk assessments may only include portions of the entire site or facility. For specific details and supporting data concerning site activities and individual probabilities of OE exposures, the site OECert report may need to be reviewed.

Table ES-4. Site Comparison of Expected Ordnance and Explosives Public Risk Exposures - No Action

| Expected Public OE Risk Exposures | Site                         |
|-----------------------------------|------------------------------|
|                                   | Nansemond Army Depot         |
|                                   | Camp Greene                  |
| 0 - 500                           | Former Camp Croft OOU6       |
|                                   | Camp Grant                   |
|                                   | Pantex Ordnance Plant        |
|                                   | Dutch Harbor                 |
|                                   | former Camp Croft EE/CA      |
|                                   | Baywood Park                 |
|                                   | Fort Monroe                  |
|                                   | Attu                         |
|                                   | Raritan Arsenal              |
| 501 - 15,000                      | Duck Target Facility         |
|                                   | Motlow Range                 |
|                                   | Dolly Sods                   |
| 15,001 - 300,000                  | Culebra Island NWR           |
|                                   | Fort Ord EE/CA Phase I Sites |
|                                   | Camp Claiborne               |
| > 300,000                         | Southwest Proving Grounds    |
|                                   | Sioux Army Depot             |

### FORMER CAMP CROFT OOU6 OECert ANALYSIS

#### DRAFT FINAL REPORT

#### 1.0 BACKGROUND

QuantiTech, Inc., was contracted by Parsons Engineering Science (ES), Inc. to apply the Ordnance and Explosives Cost-Effectiveness Risk Tool (OECert) to evaluate the ordnance and explosives (OE) contamination at the former Camp Croft Ordnance Operable Unit 6 (OOU6) in South Carolina. QuantiTech was to provide an estimate of risk for each former Camp Croft OOU6 area both in terms of "to the individual" and "to the total population." OECert measures risk in terms of how often people are exposed to OE when participating in commonly performed activities at a site, e.g., hiking, hunting, etc. Appendix A provides a brief description of the OECert risk estimating methodology with an example of the OECert calculation for a hunting activity at the former Camp Croft OOU6.

Risk areas are defined as physically contiguous areas with homogeneous OE contamination density and terrain factors such as vegetation density, terrain slope, and soil type. The data collected for use in the OECert analysis, along with the source for each, is provided in Appendix B. The assumptions made in the OECert analysis, along with the rationale for each, are provided in Appendix C.

Density estimates were developed using the results of the TCRA and the Engineering Design grid sampling data. Primary site areas were delineated by Parsons ES and provided to QuantiTech. Areas were then defined to reflect changes in OE density, public activities, and site characterization features. (See Figure ES-1 for the area identifications.) Results from the Engineering Design sampling provided a density estimate of 0 OE items per acre for the Natural Brush/Forest B (no OE items were found during sampling). The Roads and Site Operations Building are considered to have a physical barrier (building or improved surface covering) to the OE; therefore, no OE exposure is accumulated unless additional intrusive activities are performed.

#### 2.0 ANALYSIS

#### 2.1 RISK ESTIMATING INPUTS

The analysis performed to estimate exposures for areas contained within the former Camp Croft OOU6 included the consideration of four removal options. Each removal option was evaluated using the calculated density estimate. The removal options are:

- No action
- OE removed from surface
- OE removed to a depth of 1 foot
- OE removed to a depth of 4 feet

All OE items at these areas are estimated to be found from the surface down to 2 feet. No OE items were found below 2 feet. In approximating the distribution percentages of OE items using the site sampling results, the following numbers were estimated:

| Surface    | 6%  |
|------------|-----|
| 0 - 1 feet | 69% |
| 1 - 2 feet | 25% |
| >2 feet    | 0%  |

In the Pond Area a one foot soil erosion was taken into account. Therefore, the following distribution percentages of OE items were estimated:

Surface 75% 0 - 1 feet 25% >1 feet 0%

Density estimates used in the calculation of risk can be found in Table ES-2.

Activities present in each area are included in Appendix C. OECert methodology calculates public and individual risk according to activities identified as taking place in each partitioned area and according to whether the activities are surface only or include a ground intrusive component.

#### 2.2 ANALYSIS RESULTS

Figure 2.2-1 shows the expected annual exposures for "No Action" in each area in the former Camp Croft OOU6 given the sampled density estimate for ordnance. The "No Action" removal option is included to represent the current expected annual exposures for the site.

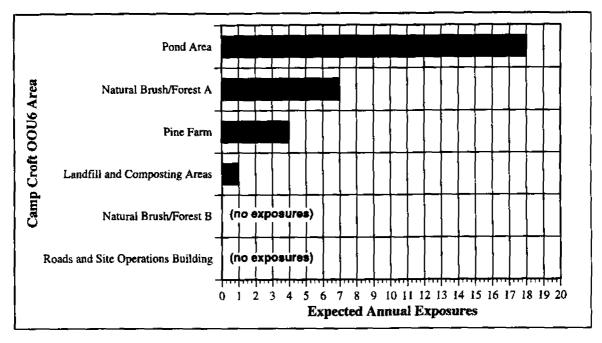


Figure 2.2-1. Expected Annual Exposures for Population: No Action

Table 2.2-1 identifies the rank-ordered list using the No Action removal alternative of the OE expected annual exposures to the public for each former Camp Croft OOU6 area. This table summarizes across all activities at the area. Additional area level summary of expected public exposures are provided in Appendix D.

Table 2.2-1. Expected Annual Exposures for Former Camp Croft OOU6

| Area                               | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|------------------------------------|--------------|--------------------|-------------------|-------------------|
| Pond Area                          | 18           | 2                  | 0                 | 0                 |
| Natural Brush/Forest A             | 7            | 4                  | 2                 | 2                 |
| Pine Farm                          | 4            | 2                  | 1                 | 1                 |
| Landfill and<br>Composting Areas   | 1            | 1                  | 1                 | 0                 |
| Natural Brush/Forest B             | 0            | 0                  | 0                 | 0                 |
| Roads and Site Operations Building | 0            | 0                  | 0                 | 0                 |

#### 2.3 INTERPRETATION OF ANALYSIS RESULTS

Figure 2.2-1 identifies the results for the current (no action) level of risk at the former Camp Croft OOU6 for each area. The Pond Area has the highest number of expected OE exposures. This area was expected to have more activities and the impact of soil erosion exposing subsurface OE items were significant factors in the assessment. No exposures were assessed in the Natural Brush/Forest B since no ordnance items were found during the Engineering Design sampling. The Roads and Site Operations Building that have been improved (paved, building construction, etc.) also have no expected exposures. These improved areas are considered to be free of further exposure to the public unless future intrusive activities are performed.

The OE exposures quantified by OECert for each of the areas represent a cumulative annual result over all the activities. Some activities are spread throughout the year while others may be accumulated over a much smaller increment (weeks or few months) of the year. In attempting to highlight which of the activities may have a more immediate potential for OE exposures, it may be appropriate to review the timing (schedule) and extent (period of time) of OOU6 area activities. For example, if immediate plans are to impact the pond area then this area may have the more immediate potential for OE (hazardous UXO) exposures. The overall risk results show small differences between the annual expected exposures in the areas for several reasons that include:

- very low expected OE density (1 in 6.5 acres),
- all areas (except Natural Brush/Forest B) with the same OE density,
- similar surface and intrusive activities across the areas, and
- similar public participation in the activities across OOU6.

Table 2.2-1 shows the number of exposures remaining after surface, one foot, and four foot removal actions based on the TCRA and the Engineering Design sampling data. A surface removal provides a surface sweep of OE items with a 100% efficiency. This sweep efficiency is based on the site conditions (soil, slope, vegetation, etc.), instrument sensitivity, removal action personnel, and ordnance type (weight, depth, type, etc.). A four foot removal provides a sweep of those items just below the surface down to one foot at 100% efficiency, to two feet at 97% efficiency, and to four feet at an 83% efficiency. (The surface is not considered to be swept again during the removal.) The sweep efficiencies are detailed in Appendix C.

Appendix D details the number of exposures for each activity with additional explanation about assumptions and calculations of OE exposure risk at the former Camp Croft OOU6. Additionally, Appendix E is included with this report to provide calculations concerning the OE density estimates developed and used in this report.

## APPENDIX A

# OECert RISK ESTIMATING DESCRIPTION

#### APPENDIX A

#### OECert RISK ESTIMATING DESCRIPTION

Public exposure to both surface and subsurface OE items is characterized by a Poisson process. The Poisson distribution is considered the appropriate distribution because it is believed that the delineated sectors, via appropriate sampling techniques, exhibit homogeneously distributed OE. This homogeneous distribution of OE allows the passage of participants through the site to be characterized as a Poisson process.

The public exposures result from individuals performing specific activities (both recreational and occupational) within OE-contaminated areas. The expected number of surface OE exposures per participant in an area is dependent on OE density, the proportion of OE on the surface of the ground, and the activity participant's exposure area (the area traversed by an individual while performing an activity). The expected number of subsurface OE exposures per participant in an area is dependent on the OE density, the proportion of OE beneath the surface of the ground, the density distribution of the subsurface OE, and the area associated with an activity performed in the area.

The calculation of the total expected number of exposures to OE at a site follows a step-by-step process. First, for each area, the expected number of exposures for a single individual participating in a specific activity is calculated. Second, the number of individuals that are expected to participate annually in that activity on the site is determined based on the demographics (e.g., population) surrounding the site and activity participation data. The two values are combined as shown in the following relationship to give the total annual number of exposures expected to occur for participants in the activity that was identified.

E[Activity Exposures] = E[exposures for single participant] · E[annual participants].

These calculations are then performed for each activity that has been determined to be participated in at the FUDS. The values for the expected number of exposures resulting from participation in each activity are summed to yield the overall risk value for the site.

$$E[Total Exposures] = \sum_{all activities} E[Activity Exposures].$$

#### A.2 OECert EXAMPLE

#### Calculating Risk for Hunting at the Natural Brush/Forest A

The risk associated with hunting at a FUDS involves calculation of surface exposures. The number of exposures to ordnance for a single individual participating in hunting is calculated by multiplying the OE density by the effective area. The effective area is defined as the minimum of the sector area and the area that an individual covers while hunting. The resulting value for a single individual exposure is called mu  $(\mu)$ .

To find mu for a density of 0.154 OE/acre, first find the overall density per square foot for all depths:

```
density/acre = 0.154 OE/acre
density/sq ft= 0.154/43,560 sq ft
= 0.00000354 OE/sq ft
```

Then find the density on surface by multiplying the overall density by 6.0%, which is the proportion of the ordnance within the surface area for hunting as calculated from the sampling data:

```
surface \ density = 0.00000354 \ OE/sq \ ft \bullet 0.06= 0.0000002 \ OE/sq \ ft
```

Finally, calculate mu by multiplying the surface density by the surface effective area (42,457 ft<sup>2</sup>):

```
\mu = (0.0000002 \ OE/sq \ ft \bullet 42,457 \ sq \ ft)
\mu = 0.009006
```

The expected number of exposures for all hunters is found by multiplying the mu value by the total number of annual participants. The expected number of exposures for 1 foot and 4 foot removal is the same as the expected number of exposures for surface removal because hunting is a surface only activity (i.e., it is non-intrusive).

The mu value is also used to calculate the probability of an exposure for a single individual. This is done by substituting the mu value into the following equation:

$$p(Exp) = 1 - e^{-\mu}$$

The expected annual exposures while hunting are shown in Table A-1. The following assumptions were made: OE density equals 0.154 OE/acre and 96 annual hunters.

Table A-1. Expected Exposures for All Hunters, Annually

| Removal Option    | Expected Exposures |
|-------------------|--------------------|
| No Removal Action | 1                  |
| Surface Removal   | 0                  |
| l Foot Removal    | 0                  |
| 4 Foot Removal    | 0                  |

### APPENDIX B

## DATA COLLECTED FOR FORMER CAMP CROFT OOU6 OECert ASSESSMENT

#### APPENDIX B

## DATA COLLECTED FOR FORMER CAMP CROFT OOU6 OECert ASSESSMENT

The following table includes the facts used as inputs to the analysis performed for the former Camp Croft OOU6 using OE Cost-Effectiveness Tool (OE*Cert*). Each fact is accompanied by its source.

| Fact   | Source  |
|--|---|
| Area of Former Camp Croft OOU6 is approximately 403 acres                | Former Camp Croft Training Facility Archive Search Report,<br>Prepared by U.S. Army Corps of Engineers, Rock Island<br>District, April 1994 |
| Vegetation of Road and Site Operations Building = Clear                  | Croft Site Visit  |
| Vegetation of Pine Farm = Brushy/Trees                                   | Croft Site Visit  |
| Vegetation of Landfill and Composting Areas = Brushy/Trees               | Croft Site Visit  |
| Vegetation of Pond Area = Brushy/Trees                                   | Croft Site Visit  |
| Vegetation of Natural Brush/Forest = Brushy/Trees                        | Croft Site Visit  |
| Slope of Road and Site Operations Building = 0° - 10°                    | Croft Site Visit  |
| Slope of Pine Farm = 0° - 10°  | Croft Site Visit  |
| Slope of Landfill and Composting Areas = 0° - 10°                        | Croft Site Visit  |
| Slope of Pond Area = 0° - 10°  | Croft Site Visit  |
| Slone of Natural Brush/Forest = 0° - 10°                                 | Croft Site Visit  |
| Soil Type of Road and Site Operations Building is Clay                   | Croft Site Visit  |
| Soil Type of Pine Farm is Clay   | Croft Site Visit  |
| Soil Type of Landfill and Composting Areas is Clay                       | Croft Site Visit  |
| Soil Type of Pond Area is Clay Soil Type of Natural Brush/Forest is Clay | Croft Site Visit  |

### APPENDIX C

# ASSUMPTIONS FOR FORMER CAMP CROFT OOU6 OECert ASSESSMENT

#### APPENDIX C

# ASSUMPTIONS FOR FORMER CAMP CROFT OOU6 OECert ASSESSMENT

The following table includes the assumptions used as inputs to the analysis performed for the former Camp Croft OOU6 using the OE Cost-Effectiveness Tool (OECert). Each assumption is accompanied by its source/rationale.

Table C-1. Data Assumptions for Former Camp Croft OOU6

| Assumption  | Source/Rationale  |
|---|---|
| Hunting, Off-Road Vehicling, and Short Cut take place in the Pine   | Croft Site Visit  |
| Farm Construction, Hunting, and Short Cut take place in the Landfill and  | Croft Site Visit  |
| Composting Areas Child Play, Construction, Hiking, Hunting, Picnicking, and Off-  | Croft Site Visit  |
| Road take place in the Pond Area Crop Farming, Hiking, Hunting, and Off-Road Vehicling take                                 | Croft Site Visit  |
| place in the Natural Brush/Forest Area  | 1990 Census of Population and Housing   |
| Population of Spartenburg = 42,767  Roads and Site Operations Building is approximately 0.08 acres                          | Croft Assessment Sheets, Parsons ES   |
| Pine Farm is approximately 38.94 acres  Landfill and Composting Areas is approximately 21.31 acres                          | Croft Assessment Sheets, Parsons ES Croft Assessment Sheets, Parsons ES             |
| Pond Area is approximately 25.87 acres  | Croft Assessment Sheets, Parsons ES Croft Assessment Sheets, Parsons ES (QuantiTech |
| Natural Brush/Forest A is approximately 117 acres.  | Partitioning) Croft Assessment Sheets, Parsons ES (QuantiTech                       |
| Natural Brush/Forest B is approximately 85.24 acres   | Partitioning)   |
| OE Density estimate for the Pine Farm is: 0.154 OE per acre OE Density estimate for the Landfill and Composting Areas is:   | TCRA and Site sampling results TCRA and Site sampling results                       |
| 0.154 OF per acre   | TCRA and Site sampling results  |
| OE Density estimate for the Pond Area is: 0.154 OE per acre OE Density estimate for the Natural Brush/Forest A is: 0.154 OE | TCRA and Site sampling results  |
| per acre OE Density estimate for the Natural Brush/Forest B is: 0.00 OE per   | TCRA and Site sampling results (No OE found during EE/CA sampling)                  |
| OE Density estimate for the Road and Site Operations Building is:   | OECert Methodology, Previously Improved Areas                                       |
| 0.00 OE per acre Sweep efficiencies for surface anomalies are 100%  | Guidance by CEHNC   |
| Sween efficiencies for anomaly depth 0 to 1 ft. are 100%  | Guidance by CEHNC Guidance by CEHNC   |
| Sweep efficiencies for anomaly depth 1 to 2 ft. are 97%   | Guidance by CEHNC  Guidance by CEHNC  |
| Sweep efficiencies for anomaly depth 2 to 4 ft. are 83%  Sweep efficiencies for anomaly depth 4 to 6 ft. are 49%            | Guidance by CEHNC   |

Table C-1. Data Assumptions for Former Camp Croft OOU6 (Concluded)

| Sweep efficiencies for anomaly depth 6 to 8 ft. are 16%   | Guidance by CEHNC                                  |
|---|--|
| Sweep efficiencies for anomaly depth 8 to 10 ft. are 3.0% | Guidance by CEHNC                                  |
| OE Depth Distribution                                     | Site Sampling Results Based on 15 OE Related Items |
| Surface 6%  |  |
| 0-1 69%   |  |
| 1-2 25%   |  |
| >2 0%   |  |

### APPENDIX D

## RISK ESTIMATES

# APPENDIX D RISK ESTIMATES

The risk levels provided include expected annual exposures to OE by members of the public and the probability of exposure per individual participating in a particular activity. An expected annual exposure is defined by the OECert methodology as a participant in an activity being in the proximity of ordnance, with or without knowledge of the participant to its presence. The probability of an individual exposure is defined as follows: If an individual is participating in an activity under analysis in the contaminated area, what is the probability that the individual will experience at least one exposure to at least one OE item in a single year?

Table D-1 shows the expected annual exposures to OE by members of the public in each partitioned area for each removal option. This value can be thought of as the "risk to the many" since it considers the annual entrants to the former Camp Croft OOU6. The expected annual exposures per area reflected in Table D-1 are the sum of all expected exposures for each activity occurring in each area (refer to Appendix A). Tables D-3 through D-7 show the expected annual exposures per activity for each area from which the totals are derived.

The no action alternative reflects the site conditions as they currently are. Surface removal provides a surface sweep of OE items with a 100% efficiency. This sweep efficiency is based on the site conditions (soil, slope, vegetation, etc.), instrument sensitivity, removal action personnel, and ordnance type (weight, depth, type, etc.). A four foot removal provides an ordnance sweep of those items just below the surface down to one foot at 100% efficiency, to two feet at 97% efficiency, and to four feet at an 83% efficiency. The surface is not considered to be swept again.

Each area at former Camp Croft has an estimated ordnance density estimate, activities, and an estimate of public participation as described in this report and appendices. Exposure calculations consider the surface area covered during an activity and the subsurface intrusion area of the activity (if one exists). Generally, areas with many activities and many public participants in an area of OE contamination will have many exposures.

Table D-1. Total Expected Annual Exposures for Former Camp Croft OOU6

| Area                             | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|----------------------------------|--------------|--------------------|-------------------|-------------------|
| Roads & Site Operations Building | 0            | 0                  | 0                 | 0                 |
| Pine Farm                        | 4            | 2                  | 1                 | 1                 |
| Landfill and<br>Composting Areas | 1            | 1                  | 1                 | 0                 |
| Pond Area                        | 18           | 2                  | 0                 | 0                 |
| Natural Brush/Forest<br>A        | 7            | 4                  | 2                 | 2                 |
| Natural Brush/Forest<br>B        | 0            | 0                  | 0                 | 0                 |
| SITE TOTAL                       | 30           | 9                  | 4                 | 3                 |

Table D-2 shows a probability of individual exposure measure for the former Camp Croft OOU6. The values displayed indicate the probability that an individual participating in an activity in the indicated partitioned area will be exposed to at least one OE item in a single year if the indicated removal option is implemented (e.g., 1/1 indicates that an individual is exposed during each visit/activity; 1/1.6M indicates exposure only once in 1.6 million visits/activities). This measure can be thought of as the "risk to an individual" because it does not consider the annual participants in activities at former Camp Croft, but considers only a single participant.

Table D-2. Probability of Individual Exposure for Former Camp Croft OOU6

| Area                             | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|----------------------------------|--------------|--------------------|-------------------|-------------------|
| Roads & Site Operations Building | 0            | 0                  | Ö                 | 0                 |
| Pine Farm                        | 1/111        | 1/252              | 1/944             | 1/944             |
| Landfill and<br>Composting Areas | 1/2          | 1/2                | 1/5               | 1/138             |
| Pond Area                        | 1/5          | 1/5                | 0                 | 0                 |
| Natural Brush/Forest A           | 1/4          | 1/4                | 1/14              | 1/14              |
| Natural Brush/Forest<br>B        | 0            | 0                  | 0                 | 0                 |

Table D-3. Expected Annual Exposures for Pine Farm

| Area                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Hunting               | 1 :          | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 2            | 2                  | 1                 | 1                 |
| Short Cut             | 1            | 0                  | 0                 | 0                 |

Table D-4. Expected Annual Exposures for Landfill and Composting Areas

| Area         | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|--------------|--------------|--------------------|-------------------|-------------------|
| Construction | 1            | 1                  | 1                 | 0                 |
| Hunting      | 0            | 0                  | 0                 | 0                 |
| Short Cut    | 0            | 0                  | 0                 | 0                 |

Table D-5. Expected Annual Exposures for Pond Area

| Area                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Child Play            | 8            | 0                  | 0                 | 0                 |
| Construction          | 1            | 1                  | 0                 | 0                 |
| Hiking                | 3            | 0                  | 0                 | 0                 |
| Hunting               | 3            | 0                  | 0                 | 0                 |
| Picnicking            | 1            | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 2            | 1                  | 0                 | 0                 |

Table D-6. Expected Annual Exposures for Natural Brush/Forest A

| Area                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Crop Farming          | 3            | 2                  | 1                 | 1                 |
| Hiking                | 1            | 0                  | 0                 | 0                 |
| Hunting               | 1            | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 2            | 2                  | 1                 | 1                 |

Table D-7. Expected Annual Exposures for Natural Brush/Forest B

| Area                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Crop Farming          | 0            | 0                  | 0                 | 0                 |
| Hiking                | 0            | 0                  | 0                 | 0                 |
| Hunting               | 0            | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 0            | 0                  | 0                 | 0                 |

Tables D-8 through D-12 show the probability of individual exposure measure for each activity for each removal option. These numbers indicate the chance of an individuals OE exposure while performing the specified activity.

Table D-8. Probability of Individual Exposure for Pine Farm

| Area                  | N o<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|---------------|--------------------|-------------------|-------------------|
| Hunting               | 1/111         | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 1/237         | 1/252              | 1/944             | 1/944             |
| Short Cut             | 1/2,844       | 0                  | 0                 | 0                 |

Table D-9. Probability of Individual Exposure for Landfill and Composting Areas

| Агеа         | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|--------------|--------------|--------------------|-------------------|-------------------|
| Construction | 1/2          | 1/2                | 1/5               | 1/138             |
| Hunting      | 1/22         | 0                  | 0                 | 0                 |
| Short Cut    | 1/7,063      | 0                  | 0                 | 0                 |

Table D-10. Probability of Individual Exposure for Pond Area

| Area                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Child Play            | 1/14         | 1/3.5M             | 0                 | 0                 |
| Construction          | 1/5          | 1/5                | 0                 | 0                 |
| Hiking                | 1/21         | 0                  | 0                 | 0                 |
| Hunting               | 1/10         | 0                  | 0                 | 0                 |
| Picnicking            | 1/237        | 1/4.5M             | 0                 | 0                 |
| Off-Road<br>Vehicling | 1/237        | 1/944              | 0                 | 0                 |

Table D-11. Probability of Individual Exposure for Natural Brush/Forest A

| Area                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Crop Farming          | 1/4          | 1/4                | 1/14              | 1/14              |
| Hiking                | 1/250        | 0                  | 0                 | 0                 |
| Hunting               | 1/112        | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 1/237        | 1/252              | 1/944             | 1/944             |

Table D-12. Probability of Individual Exposure for Natural Brush/Forest B

| Агеа                  | No<br>Action | Surface<br>Removal | 1 Foot<br>Removal | 4 Foot<br>Removal |
|-----------------------|--------------|--------------------|-------------------|-------------------|
| Crop Farming          | 0            | 0                  | 0                 | 0                 |
| Hiking                | 0            | 0                  | 0                 | 0                 |
| Hunting               | 0            | 0                  | 0                 | 0                 |
| Off-Road<br>Vehicling | 0            | 0                  | 0                 | 0                 |

#### APPENDIX E.

## ESTIMATION OF ORDNANCE REMAINING AT FORMER CAMP CROFT OOU6

#### APPENDIX E

## ESTIMATION OF ORDNANCE REMAINING AT FORMER CAMP CROFT OOU6

#### E.1 ESTIMATION OF REMAINING ORDNANCE

Table E-1 shows the estimated number of remaining ordnance items for each area at the former Camp Croft OOU6. These numbers were calculated using the land area, estimated OE density, and percentage of OE on surface for each area.

Table E-1. Estimated Remaining Ordnance at Former Camp Croft OOU6

| Area                               | Expected<br>Surface<br>OE | Expected<br>Subsurface<br>OE | Total Expected<br>OE |
|------------------------------------|---------------------------|------------------------------|----------------------|
| Roads and Site Operations Building | 0                         | 0                            | 0                    |
| Pine Farm                          | 1                         | 5                            | 6                    |
| Landfill and Composting Areas      | 0                         | 1                            | 1                    |
| Pond Area                          | 3                         | 1                            | 4                    |
| Natural Brush/Forest A             | 1                         | 17                           | 18                   |
| Natural Brush/Forest B             | 0                         | 0                            | 0                    |
| SITE TOTAL                         | 5                         | 24                           | 29                   |

#### APPENDIX F

### COMPARATIVE RISK ASSESSMENT FOR FORMER CAMP CROFT OOU6

#### APPENDIX F

## COMPARATIVE RISK ASSESSMENT FOR FORMER CAMP CROFT OOU6

The comparative risk results are injury/death projections based on the expected annual OE exposures as calculated by OECert. Table F-1 and Table F-2 are the enhanced comparative risk lists. Table F-1 ranks the lists (both common and OE) according to the annual chance of occurrence column. Table F-2 ranks the lists according to the 20 year injury and death estimate column. The primary difference between the two tables is the population basis of the particular risk. Some of the common risks are based on a specific subset of the former Camp Croft population. Figure F-1 shows a graphic representation of the 20 year injury and death rankings. Another method of comparison is shown in Figure F-2 by breaking out the comparative risk assessment by activities (recreational and occupational) expected to be performed at the site.

Table F-1. Comparative Risk Ranked by Chance

| Candidates  | Number of<br>Injuries/Deaths | Activity<br>Population<br>Basis | Camp Croft<br>Population<br>Basis | 20 Year<br>Injury/ Death<br>Estimate | Chance of<br>Injury/Death (I in #<br>person-years) |
|---|------------------------------|---------------------------------|-----------------------------------|--------------------------------------|--|
| Construction industry disabling injuries  | 350,000                      | 6,500,000                       |                                   |                                      |  |
| Transportation and public utilities industry disabling injuries                                       | 300,000                      |                                 |                                   | 986.931                              | 21   |
| Agriculture industry disabling injuries  Mining, quarrying industry disabling injuries                | 140,000<br>20,000            |                                 |                                   | 460.568<br>65.795                    | 24<br>30   |
| Manufacturing industry disabling injuries   | 600,000                      |                                 |                                   |                                      | 31   |
| Trade industry disabling injuries   | 840,000                      |                                 |                                   | 2,763,406                            | 34   |
| Government industry disabling injuries  | 550,000                      |                                 | 3,076                             |                                      | 34   |
| Disabling injury from work-related accident   |                              | 124,400,000                     |                                   | 11.843.169                           |  |
| Injury from a home accident   | 7,300,000<br>800,000         | 260,000,000<br>42,000,000       |                                   | 24,015.315<br>2,631.815              | 36<br>53   |
| Services industry disabling injuries Injury from motor-vehicle accident                               |                              | 260,000,000                     |                                   | 13,116.310                           |  |
| Injuries relating to soccer   | 162,115                      |                                 | 2,056                             | 533.321                              | 77   |
| Injury from venomous snake, lizard, or spider   |                              | 260,000,000                     | 42,767                            | 1,322.487                            | 647  |
| Injury from poisoning by solid, liquid, gas, or vapor   |                              | 260.000,000                     |                                   | 1,144,840                            |  |
| Not wearing seatbelts (added injuries)  | 200,000<br>171,000           | 260,000,000<br>260,000,000      |                                   | 657.954                              | 1,300<br>1,520                                     |
| Injury from fire or bum Student injuries on school bus  | 11,000                       |                                 |                                   | 562.551<br>36.187                    | 1,818  |
| Recreational boating injuries   | 4,965                        | 11,420,585                      |                                   | 16.334                               | 2,300  |
| Deaths due to complications, misadventures of surgical, medical care                                  | 2,724                        | 6,452,000                       | 1,063                             | 8.961                                | 2,369  |
| Mining, quarrying industry deaths   | 180                          | 600,000                         |                                   | 0.592                                | 3,333  |
| Pedestrian injury   | 70,000                       |                                 |                                   | 230.284                              | 3,714  |
| Agriculture industry deaths Injury from motorcycle accident   | 800<br>56,000                | 3,400,000                       |                                   | 2.632<br>184,227                     | 4,250<br>4,643                                     |
| Death from motor-vehicle accident   | 43.900                       |                                 |                                   | 144.421                              | 5,923  |
| Construction industry deaths  | 1,040                        |                                 |                                   | 3.421                                | 6,250  |
| Injury from collision with a bicycle, moped, etc.   |                              | 260,000,000                     |                                   | 131.591                              | 6,500  |
| Transportation and public utilities industry deaths   | 850                          |                                 |                                   | 2.796                                | 7,529  |
| Death from a home accident Homicide   |                              | 260,000,000<br>260,000,000      |                                   | 86.850<br>85.564                     | 9,848<br>9,997                                     |
| Passenger Death - Cars and taxis  | 20,009                       |                                 |                                   | 71.760                               | 11,919   |
| Recreational booting fatalities   | 836                          |                                 | 1,879                             | 2.750                                | 13,661   |
| Death from accidental fall  |                              | 260,000,000                     | 42,767                            | 41.451                               | 20,635   |
| Victim of a property crime  |                              | 260,000,000                     | 42,767                            | 40.191                               | 21,282   |
| Death from work-related accident  Death from poisoning by solid, liquid, gas, or vapor                |                              | 124,400,000<br>260,000,000      | 20,462<br>42,767                  | 17.436<br>34.872                     | 23,472<br>24,528                                   |
| Manufacturing industry deaths   | 730                          |                                 | 3,010                             | 2,402                                | 25,068   |
| Not wearing scatbelts (added fatalities)  | 9.175.                       |                                 | 42,767                            | 30.184                               | 28,338   |
| Injury from accidental fall   | 7,616                        |                                 | 42,767                            | 25.055                               | 34,139   |
| Government industry deaths  | 530                          | 18,700,000                      | 3,076                             | 1.744                                | 35,283   |
| Pedestrian death Death from drowning  |                              | 260,000,000<br>260,000,000      | 42,767<br>42,767                  | 20.726<br>14.804                     | 41,270<br>57,778                                   |
| Trade industry deaths   | 490                          |                                 | 4,688                             | 1.612                                | 58,163   |
| Services industry deaths  | 680                          |                                 | 6,909                             | 2.237                                | 61,765   |
| Death from fire or burn   |                              | 260,000,000                     | 42,767                            | 13.488                               | 63,415   |
| Death from motorcycle accident  |                              | 260,000,000                     | 42,767                            | 6.909                                | 123,810  |
| Injury from collision with a railroad train Victim of a violent crime                                 | 2,000                        |                                 | 42,767<br>42,767                  | 6.580<br>6.330                       | 130,000<br>135,135                                 |
| Injury from a hunting accident  | 1,094                        |                                 | 42,767                            | 3.599                                | 237,660  |
| Death from collision with a bicycle, moped, etc.  | 900                          | 260,000,000                     | 42,767                            | 2.961                                | 288,889  |
| Death from a water-transport accident   |                              | 260,000,000                     |                                   | 2.632                                | 325,000  |
| Death from airplane crash - General  Exclision dispelly related to (cathol) (all high school)         | 732                          | 260,000,000                     |                                   | 2.408                                | 355,191  |
| Fatalities directly related to football (all high school)  Death from collision with a railroad train |                              | 1,472,300 260,000,000           |                                   | 0.013<br>1.645                       | 368,075<br>520,000                                 |
| Passenger Injury - Railroad trains  | 497                          |                                 |                                   | 1.635                                | 523,139  |
| Student fatalities on school bus  | 30                           | 20,000,000                      | 3,290                             |                                      |  |
| Camp Croft - No Action  |                              |                                 | 42,767                            | 0.63141                              | 1,354,640  |
| Camp Croft - Surface Removal Camp Croft - 1 Foot Removal  |                              |                                 | 42,767<br>42,767                  | 0.63127<br>0.63124                   | 1,354,948<br>1,355,022                             |
| Camp Croft - 4 Foot Removal   |                              |                                 | 42,767                            | 0.63123                              | 1,355,037  |
| Death from airplane crash - Large   | 166                          | 260,000,000                     | 42,767                            | 0.546                                | 1,566,265  |
| Passenger Death - Scheduled airlines  |                              | 260,000,000                     | 42,767                            | 0.523                                | 1,635,220  |
| Death from a consolversic recent or flood   |                              | 260,000,000<br>260,000,000      |                                   | 0.352                                | 2,429,907  |
| Death from a cataclysmic storm or flood  Death from lightning   |                              | 260,000,000                     |                                   | 0.316<br>0.237                       | 2,708,333<br>3,611,111                             |
| Death from a tornado  |                              | 260,000,000                     |                                   |                                      | 3,768,116  |
| Death from airplane crash - On-demand   | 52                           | 260,000,000                     | 42,767                            | 0.171                                | 5,000,000  |
| Death from homet, wasp, or bee  |                              | 260,000.000                     |                                   |                                      | 6,666,667  |
| Deaths due to dog bites  Death from a cataclysmic earth surface movement or eruption                  |                              | 260,000,000                     |                                   |                                      |  |
| Passenger Death - Buses   |                              | 260,000,000                     |                                   |                                      |  |
| Death from airplane crash - Commuter  | 9                            |                                 |                                   |                                      |  |
| Death from venomous snake, lizard, or spider  | 9                            | 260,000,000                     | 42,767                            | 0.030                                | 28,888,889   |
| Passenger Death - Railroad trains   | 5                            | 260,000,000                     | 42,767                            | 0.016                                | 52,000,000   |

Table F-2. Comparative Risk Ranked by Injury/Death

| Candidates  | Number of<br>Injuries/Deaths | Activity<br>Population<br>Basis | Camp Croft<br>Population<br>Basis | 20 Year<br>Injury/ Death<br>Estimate | Chance of<br>Injury/Death (I in #<br>person-years) |
|---|------------------------------|---------------------------------|-----------------------------------|--------------------------------------|--|
| Injury from a home accident   | 7.300.000                    | 260.000.000                     | 42,767                            | 24,015.315                           | 36   |
| Injury from motor-vehicle accident  | 3,987,000                    | 260,000,000                     |                                   | 13,116.310                           |  |
| Disabling injury from work-related accident   |                              | 124,400,000                     | 20,462                            | 11,843,169                           | 35   |
| Trade industry disabling injuries   | 840,000                      |                                 |                                   | 2,763.406                            | 34   |
| Services industry disabling injuries  | 800,000                      |                                 | 6,909                             | 2,631.815                            | 53   |
| Manufacturing industry disabling injuries   | 600,000                      | 18,300,000                      | 3.010                             | 1,973.862                            | 31   |
| Government industry disabling injuries Injury from venomous snake, lizard, or spider                  |                              | 260,000,000                     | 3,076<br>42,767                   | 1,809.373<br>1,322.487               | 34<br>647  |
| Construction industry disabling injuries  | 350,000                      |                                 | 1,069                             | 1,522,487                            | 19   |
| Injury from poisoning by solid, liquid, gas, or vapor   | 348,000                      |                                 | 42,767                            | 1,141,840                            | 747  |
| Transportation and public utilities industry disabling injuries                                       | 300,000                      |                                 | 1,053                             | 986.931                              | 21   |
| Not wearing seatbelts (added injuries)  | 200,000                      | 260,000,000                     | 42,767                            | 657.954                              | 1,300  |
| Injury from fire or burn  |                              | 260,000,000                     | 42,767                            | 562.551                              | 1,520  |
| Injuries relating to soccer   | 162,115                      |                                 | 2,056                             | 533.321                              | 77   |
| Agriculture industry disabling injuries   | 140,000                      | .,                              | 559                               | 460.568                              | 24   |
| Pedestrian injury   |                              | 260,000,000                     | 42,767                            | 230.284                              | 3,714  |
| Injury from motorcycle accident  Death from motor-vehicle accident                                    |                              | 260,000,000                     | 42,767                            | 184.227                              | 4,643  |
| Injury from collision with a bicycle, moped, etc.   |                              | 260,000,000                     | 42,767<br>42,767                  | 144.421<br>131.591                   | 5,923  |
| Death from a home accident  |                              | 260,000,000                     | 42,767                            | 86,850                               | 6,500<br>9,848                                     |
| Homicide  |                              | 260,000,000                     | 42,767                            | 85.564                               | 9,997  |
| Passenger Death - Cars and taxis  | 21,813                       |                                 | 42,767                            | 71.760                               | 11.919   |
| Mining, quarrying industry disabling injuries   | 20,000                       |                                 | 99                                | 65.795                               | 30   |
| Death from accidental fall  | 12,600                       | 260,000,000                     | 42,767                            | 41.451                               | 20,635   |
| Victim of a property crime  | 12.217                       | 260,000,000                     | 42,767                            | 40.191                               | 21,282   |
| Student injuries on school bus  | 11.000                       |                                 | 3,290                             | 36.187                               | 1,818  |
| Death from poisoning by solid, liquid, gas, or vapor  |                              | 260,000,000                     | 42,767                            | 34.872                               | 24,528   |
| Not wearing seatbelts (added fatalities)  |                              | 260,000,000                     | 42,767                            | 30.184                               | 28,338   |
| Injury from accidental fall   |                              | 260,000,000                     | 42,767                            | 25.055                               | 34,139   |
| Pedestrian death  Death from work-related accident  |                              | 260,000,000                     | 42,767                            | 20.726                               | 41,270   |
| Recreational boating injuries   |                              | 124,400,000                     | 20,462<br>1,879                   | 17.436<br>16.334                     | 23,472   |
| Death from drowning   |                              | 260,000,000                     | 42,767                            | 14,804                               | 2,300<br>57,778                                    |
| Death from fire or burn   |                              | 260,000,000                     | 42,767                            | 13.488                               | 63,415   |
| Deaths due to complications, misadventures of surgical, medical care                                  | 2,724                        | 6,452,000                       | 1,061                             | 8.961                                | 2,369  |
| Death from motorcycle accident  | 2,100                        | 260,000,000                     | 42,767                            | 6.909                                | 123,810  |
| lajury from collision with a railroad train   | 2.000                        | 260,000,000                     | 42,767                            | 6.580                                | 130,000  |
| Victim of a violent crime   |                              | 260,000,000                     | 42,767                            | 6.330                                | 135,135  |
| Injury from a hunting accident  | 1,094                        |                                 | 42,767                            | 3.599                                | 237,660  |
| Construction industry deaths  | 1,040                        | 6,500,000                       | 1,069                             | 3.421                                | 6,250  |
| Death from collision with a bicycle, moped, etc.  Transportation and public utilities industry deaths | 900<br>850                   | 6,400,000                       | 42,767                            | 2.961<br>2.796                       | 288,889  |
| Recreational boating fatalities   | 836                          | 11,420,585                      | 1,053<br>1,879                    | 2.750                                | 7,529<br>13,661                                    |
| Agriculture industry deaths   | 800                          | 3,400,000                       | 559                               | 2.632                                | 4,250  |
| Death from a water-transport accident   | 800                          |                                 | 42,767                            | 2.632                                | 325,000  |
| Death from airplane crash - General   | 732                          | 260,000,000                     | 42,767                            | 2.408                                | 355,191  |
| Manufacturing industry deaths   | 730                          | 18,300,000                      | 3,010                             | 2.402                                | 25,068   |
| Services industry deaths  | 680                          | 42,000,000                      | 6,909                             | 2.237                                | 61,765   |
| Government industry deaths  | 530                          | 18,700,000                      | 3,076                             | 1.744                                | 35,283   |
| Death from collision with a railroad train  Passenger Injury - Railroad trains                        |                              | 260,000,000                     | 42,767                            | 1.645                                | 520,000  |
| Trade industry deaths   | 497<br>490                   | 260,000,000                     | 42,767                            | 1.635                                | 523,139  |
| Camp Croft - No Action  | 490                          | 20,340,040                      | 4,688<br>42,767                   | 1.612<br>0.63141                     | 58,163<br>1,354,640                                |
| Camp Croft - Surface Removal  | <u>-</u>                     |                                 | 42,767                            | 0.63127                              | 1,354,948  |
| Camp Croft - 1 Foot Removal   |                              |                                 | 42,767                            | 0.63124                              | 1,355,022  |
| Camp Croft - 4 Foot Removal   |                              |                                 | 42,767                            | 0.63123                              | 1,355,037  |
| Mining, quarrying industry deaths   | 180                          | 600,000                         | 99                                | 0.592                                | 3,333  |
| Death from airplane crash - Large   |                              | 260,000,000                     | 42,767                            | 0.546                                | 1,566,265  |
| Passenger Death - Scheduled airlines  |                              | 260.000,000                     | 42,767                            | 0.523                                | 1,635,220  |
| Death from a hunting accident  Death from a cataclysmic storm or flood                                |                              | 260,000,000                     | 42,767                            | 0.352                                | 2,429,907  |
| Death from lightning  |                              | 260,000,000                     | 42,767<br>42,767                  | 0.316<br>0.237                       | 2,708,333<br>3,611,111                             |
| Death from a tornado  |                              | 260,000,000                     | 42,767                            | 0.237                                | 3,768,116  |
| Death from airplane crash - On-demand   |                              | 260,000,000                     | 42,767                            | 0.171                                | 5,000,000  |
| Death from homet, wasp, or bee  |                              | 260,000,000                     | 42,767                            | 0.128                                | 6,666,667  |
| Student fatalities on school bus  | 30                           | 20,000,000                      | 3,290                             | 0.099                                | 666,667  |
| Deaths due to dog bites   |                              | 260,000,000                     | 42,767                            | 0.066                                | 13,000,000   |
| Death from a cataclysmic earth surface movement or eruption   |                              | 260,000,000                     | 42,767                            | 0.056                                | 15,294,118   |
| Passenger Death - Buses   |                              | 260,000,000                     | 42,767                            | 0.049                                | 17,333,333   |
| Death from venomous snake, lizard, or spider  |                              | 260,000,000                     | 42,767                            | 0.030                                | 28,888,889   |
| Passenger Death - Railroad trains   | 5                            | 260,000,000                     | 42.767<br>42,767                  | 0.030<br>0.016                       | 28,888,889<br>52,000,000                           |
| Fatalities directly related to football (all high school)   | 4                            | 1,472,300                       | 242                               | 0.013                                | 368,075  |
| The second case (with 1991) Sections (  |                              | 1772,300                        | 247                               | 0.013                                | 306,073  |

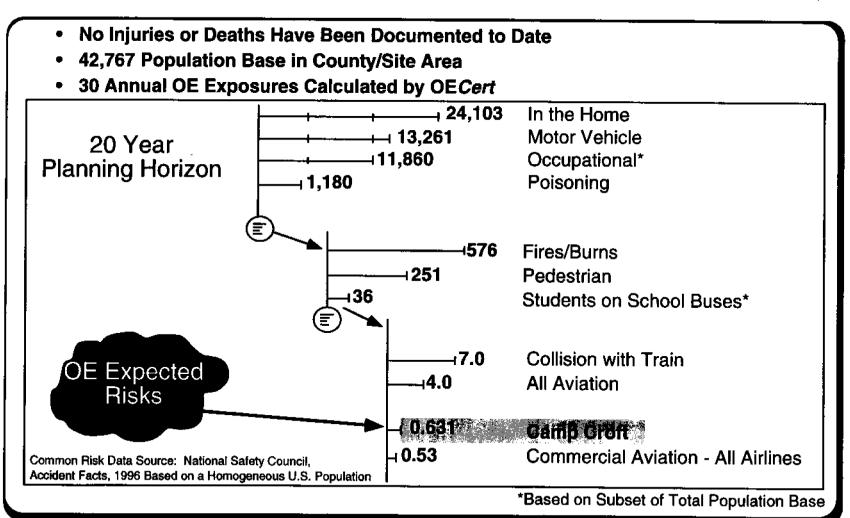


Figure F-1. Camp Croft OOU6 Comparative 20 Year Risk Estimate

Figure F-2. Camp Croft OOU6 Comparative Risk by Activity

9

#### **APPENDIX G**

### **SWEEP EFFICIENCIES**

MEMORANDUM FOR Director, Ordnance and Explosives (OE) Team

SUBJECT: Sweep Efficiencies Used in Ordnance and Explosives Cost Effectiveness Risk Tool (OECERT)

- 1. The default sweep efficiencies in OECERT are appropriate for traditional techniques which yield overall detection and removal rates of around 30% for the upper ten feet. When newer technologies having much better detection rates are used, the default values in OECERT should be changed when performing the site risk assessment.
- 2. The enclosure provides a procedure for estimating appropriate sweep efficiencies for each of the depths required by OECERT, based on the overall detection rate for the particular search technology used.
- 3. Project Managers should work with their Technical Manager to determine the appropriate sweep efficiencies for each site risk assessment, based on the actual site conditions and geophysical processes used.
- 4. Feel free to contact Dr. John Potter if you have comments or questions.

Encl

CF: ED-SY-T Read/Potter \*Original signed by
Ronald R. Lein\*
RONALD R. LEIN, P.E.
Director of Engineering

Ry young, ed-es-g

7)- FANNING, ED-SY-0

ED-SY-T

LAN WELSON, ED-SY

2/27 OZ-CX-R

#### A Method for Estimating UXO Sweep Efficiency With Depth

A meaningful site risk assessment requires an estimate of UXO density as a function of depth. The quantitative evaluation of response alternatives involving removal activities requires an estimate of the effectiveness of a proposed removal activity at reducing that density, again with respect to depth. The current version of OECERT uses sweep efficiencies expressed as a percentage of UXO removed. These efficiencies are applied to UXO densities at the surface and in six discrete depth bands. The bands are 0-1 foot. 1-2 feet, 2-4 feet, 4-6 feet, 6-8 feet and 8-10 feet. Unfortunately, most data on the effectiveness of various UXO detection technologies describe only the overall effectiveness for the entire depth range used in the particular test. This effectiveness is usually expressed as a probability of detection. P<sub>d</sub>.

The method described here can be used to estimate reasonable sweep efficiencies for these depth bands, based on a single overall  $P_d$  and a few assumptions about the nature of sweep efficiency as a function of depth. The value for  $P_d$  can be taken from any demonstration or prove out where the site conditions, UXO, technology, system employment and data analysis process are reasonably similar to those anticipated for the removal action.

The assumptions used here are:

- 1. The sum of sweep efficiencies by depth for all depth bands will be the overall sweep efficiency, Pd.
- 2. Sweep efficiency falls off smoothly with depth, first at an increasing rate, and then decreasing asymptotically to zero at a large depth.
- 3. Surface sweep efficiency will be 100%.
- 4. The sweep efficiency at 10 feet is a small, fixed value, r, related to the overall sweep efficiency.

  This estimation procedure is based on a relationship between efficiency and depth of the form e = f(d)

where e is the sweep efficiency and d is the depth. The efficiency in any depth band from x to y feet is then given by

$$e' = if(d)\partial d$$

evaluated between x and y. Furthermore, from the assumptions above, e = f(0) = 100%, and e' evaluated from 0 to  $\infty$  must be  $P_{tt}$ .

To satisfy assumptions 2 and 3, above, we will take for f(d) an exponential equation of the form  $e = A \exp(d \exp B)$ 

where A and B are parameters that satisfy the boundary conditions given by assumptions 1 and 4. Assumption 3 is automatically satisfied for all A and B, since e = 1 for d = 0. Assumption 2 will be satisfied for a family of careful choices of A and B. Assumptions 1 and 4 are sufficient for a unique solution if r is defined. No data exist to fix r from a performance perspective. However, r can be fixed from a requirements perspective. In the current implementation of OECERT, no risk is assigned to UXO below 10 feet, since anticipated future land uses are expected to produce no exposures from UXO deeper than 10 feet. Since we are thus disinterested in UXO detection and removal below 10 feet, we can take the estimated efficiency to be small, say less than 1%.

Unique solutions can now be generated for sweep efficiency as a function of depth, at any overall (average)  $P_d$ . Efficiencies for specific depth bands, such as 1-2 feet, can be generated by integration of the particular solution over the interval. Efficiencies can also be estimated by simply averaging the values of the solutions at the end points of the intervals. The latter technique has been used to produce the following table of solutions.

|         | _      |       |        |
|---------|--------|-------|--------|
| Percent | Niveen | H.771 | C16877 |

| Pe (average) | Surface | 0-1 feet | 1-2 feet | 2-4 feet | 4-6 feet | 6-8 feet | 8-10 feet |
|--------------|---------|----------|----------|----------|----------|----------|-----------|
| 50           | 100     | 100      | 97       | 83       | 49       | 16       | 3         |
| 60           | 100     | 100      | 100      | 94       | 71       | 30       | 5         |
| 65           | 100     | 100      | 100      | 97       | 81       | 40       | 7         |
| 70           | 100     | 100      | 100      | 99       | 89       | 51       | 10        |
| <b>75</b>    | 100     | 100      | 100      | 100      | 95       | 66       | 14        |
| 80           | 100     | 100      | 100      | 100      | 98       | 80       | 22        |
| 85           | 100     | 100      | 100      | 100      | 100      | 91       | 33        |
|              |         |          |          |          |          |          |           |

## APPENDIX E DAILY JOURNAL OF ALL FIELD ACTIVITIES

Length of Workd **Activities Conducted:** 

12/11/96 8 Mobilization/Setup

State Permits for Trailer



Benchmark Locations/GPS Setup Office Trailer Arrival/Setup **Duke Power/UXB Familiarization** 

12/13/96

Benchmark Locations/GPS Setup Port-o-Johns Delivered Survey Control Point Confirmation Office Trailer Setup

Logbook #/pages UXB Personnel/Activity: 1 p.1 None

1 p.2,3 Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.)

1 p.4,5 Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.)

Parsons Personnel/Activity:

**DMS/Site Manager** OAA/PM

DMS/Site Manager OAA/PM

**DMS/Site Manager** OAA/PM

Other Persons Onsite:

Mike Casey

Wayne Bogan/Site Access Approvals

Dr. Lowry

-Expressed Pond Area Concerns

Mike Casey

-Provided Site Access Key(s)

Phone Contacts/Results:

1. Dr. Lowry

-Approved Site Trailer Location

Length of Workday **Activities Conducted**; 12/14/96

Grid Survey Continues:1 3-man crew

12/16/96

R

**Grid Surveying Initiated** Jim Tomiko reminded to photograph all ordnance recovered as per WP. Generator onsite

Survey = 11 Grids 11,21,23,24,25,26,27,28,45,46,48

Survey = 8 Grids 3,4,5,6,7,8,12,47

Grid Survey Continues:2 2-man crew 1 crew corner GPS, 1 crew completes Brushcut Initiated:2 2-man crew UXB concerned about 20grids/day in WP Survey = 10 Grids 9,10,17,18,19,20,33,34,35,36 Brushout = 6 Grids

Logbook #/pages **UXB Personnel/Activity:** 

I p.6.7 Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.)

I p.8,9

12/15/96

Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.)

I p.10.11

3,24,45,46,47,48

Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Brushcut) Clint Morris (Brushcut) Mike Brantley (Brushcut)

Parsons Personnel/Activity:

**DMS/Site Manager** OAA/PM

**DMS/Site Manager** 

**DMS/Site Manager** Steve Bach (wetlands survey)

Other Persons Onsite:

Phone Contacts/Results:

Dr. Lowry

-Verbally described previous ordnance finding locations.

-He informed landfill closed most

Sat/Sun so we can work when needed.

-Concerned grid locations in field area

near trailer already cleared.

Dr. Lowry

-Showed Survey Crew Lowry #3

Dr. Lowry

-Concern over grids in "cleared" areas

-He provided us copy of TCRA report.

LOGBOOK,XLS

Length of Workday Activities Conducted: 12/17/96

Grid Survey Continues:2 2-man crew
1 crew comer GPS, 1 crew completes
Brushcut Continues:2 2-man crew
Phone installed/UXB Schonstedt screen
Survey = 8 Grids
13-16, 61-64
Brushcut = 14 Grids
4-12, 25-28, 13

12/18/96

Grid Survey Continues:2 2-man crew
1 crew comer GPS, 1 crew completes
Brushcut Continues:2 2-man crew
"Test Grid" prepared/planted
Survey = 12 Grids
57-60, 37-40, 29-32
Brushcut = 14 Grids
17-20.33-36.16. 24-28 (already clear)

12/19/96

8
Grid Survey Continues:2 2-man crew
crew corner GPS, 1 crew completes

1 crew corner GPS, 1 crew completes
Brushcut Continues:2 2-man crew
Electric Wiring Completed
Survey = 8 Grids

Survey = 8 Grids 41-44, 69-72 Brushcut = 9 Grids 14,15,57-60,29-31

Logbook #/pages UXB Personnel/Activity:

I p.12,13

Dave Tyer (Surveyor)

Chuck Stoddard (Surveyor)

Mark Holley (Rodman)

Bill Jakubowski (Rodman)

Jim Tomiko (Site Sup.)/grid screen

Bill Pursino (H & S)/grid screen

Steve Parker (Brushcut)

Karl Norberg (Brushcut)

Clint Morris (Brushcut)

Mike Brantley (Brushcut)

I p.14,15,16
Dave Tyer (Surveyor)
Chuck Stoddard (Surveyor)
Mark Holley (Rodman)
Bill Jakubowski (Rodman)
Jim Tomiko (Site Sup.)/test grid
Bill Pursino (H & S)
Steve Parker (Brushcut)/test grid
Karl Norberg (Brushcut)
Clint Morris (Brushcut)

I p.17,18,19
Dave Tyer (Surveyor)
Chuck Stoddard (Surveyor)
Mark Holley (Rodman)
Bill Jakubowski (Rodman)
Jim Tomiko (Site Sup.)
Bill Pursino (H & S)
Steve Parker (Brushcut)
Karl Norberg (Brushcut)
Clint Morris (Brushcut)
Mike Brantley (Brushcut)

Parsons Personnel/Activity:

DMS/Site Manager Steve Bach (wetlands survey) OAA/PM

DMS/Site Manager OAA/PM

Mike Brantley (Brushcut)

**DMS/Site Manager** 

Other Persons Onsite:

Neil Robinette - Property access likely Mike Casev

Neil Robinette - Signed property access

Phone Contacts/Results:

Dr. Lowry
 Requested move grids
 Wayne Bogan

-Hire electric contractor. Not use Lowry

1. Patti Berry

-Received Karl Norberg Certs.

LOGBOOK.XLS



12/20/96

8

Grid Survey Continues:2 2-man crew 1 crew corner GPS, 1 crew completes Brushcut Continues:2 2-man crew Electric Inspection/UXB demob.

Survey = 5 Grids 65-68.86 Brushcut = 5 Grids 61-64.32

Logbook #/pages UXB Personnel/Activity: I p.20,21

Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Brushcut) Clint Morris (Brushcut) Mike Brantley (Brushcut)

Parsons Personnel/Activity:

**DMS/Site Manager** 



Grid Survey Continues:2 3-man crew Change to compass/tape with comer GPS Brushcut Continues:2 3-man crew **UXB** mob./Power Connected Survey = 11 Grids

8

81-85, 87,88,109,110,112,111 Brushcut = 11 Grids 42-44.65-72

1 p.22,23,24 Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Brushcut) Clint Morris (Brushcut) Mike Brantley (Brushcut) 4 "ONSITE" Laborers

**DMS/Site Manager** 

1/7/97

Survey Continues:1 3-man, 1 2-man crew Compass/tape with comer GPS Brushcut Continues:2 3-man crew

Survey = 16 Grids 149-151,89-91,93-95,157-159 Brushcut = 11 Grids 41.37-40.85-88,81,82

> 1 p.25,26,27,28 Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Brushcut) Clint Morris (Brushcut) Mike Brantley (Brushcut) 3 "ONSITE" Laborers **DMS/Site Manager** OAA/PM

Beatrice Bidwell/EM-61 "test" grid/grid 46

Other Persons Onsite:

**Neil Robinette** 

Mike Casey - Deer Season over

Mike Casey

Phone Contacts/Results:

1/8/97 1/9/97 1/10/97 Length of Workday R **Activities Conducted:** Survey Continues:1 3-man, 1 2-man crew UXB called off work after 1+ hours of Survey Continues:1 3-man, 1 2-man crew Compass/tape with comer GPS moming bad weather Compass/tape with comer GPS Brushcut Continues: 2 3-man crew Brushcut Continues: 2 3-man crew OLA/DMS assign pond grids, "test" grid Survey = 26 Grids Survey = 0 Grids Survey = 19 Grids 121-126.137-140.173-180.153-155.209-212 168-170,129,133,141,147,148,127,128,197,213,215,216,233-236,248 Brushcut = 8 Grids Brushout = 0 Grids Brushcut = 21 Grids 83.84.109-112.150,152 149, 151, 153-155, 121-126,137-139,173-177,179,180 EM-61 = 7 Grids122.179.3.6.25,24,63 Logbook #pages l p.29,30,31 I p.32.33 l p.34-37 **UXB Personnel/Activity:** Dave Tyer (Surveyor) Dave Tyer (Surveyor) Dave Tyer (Surveyor) Chuck Stoddard (Surveyor) Chuck Stoddard (Surveyor) Chuck Stoddard (Surveyor) Mark Holley (Rodman) Mark Holley (Rodman) Mark Holley (Rodman) Bill Jakubowski (Rodman) Bill Jakubowski (Rodman) Bill Jakubowski (Rodman) Jim Tomiko (Site Sup.) Jim Tomiko (Site Sup.) Jim Tomiko (Site Sup.) Bill Pursino (H & S) Bill Pursino (H & S) Bill Pursino (H & S) Steve Parker (Brushcut)/escort Steve Parker (Brushcut) Steve Parker (Brushcut) Karl Norberg (Brushcut) Karl Norberg (Brushcut) Karl Norberg (Brushcut) Clint Morris (Brushcut) Clint Morris (Brushcut) Clint Morris (Brushcut) Mike Brantley (Brushout) Mike Brantley (Brushcut) Mike Brantley (Brushout) 3 "ONSITE" Laborers 3 "ONSITE" Laborers 3 "ONSITE" Laborers Parsons Personnel/Activity: DMS/Site Manager DMS/Site Manager OAA/PM OAA/PM OAA/PM Beatrice Bidwell/EM-61 "test" grid/grid 63 Beatrice Bidwell/EM-61 Beatrice Bidwell/FM-61 Tamir Klaff/grid 63 Tamir Klaff/EM-61 Tamir Klaff/EM-61 Other Persons Onsite: Mike Casev Mike Casey

Karl Blankinship replaces P. Berry

Corps Teleconference
- Magazine setup issues

- Escort requirement lifted for EM-61

Phone Contacts/Results:

LOGBOOK XLS

Length of Workda **Activities Conducted:** 

Logbook #/pages

**UXB Personnel/Activity:** 

1/13/97 8

Survey Continues: 1 3-man, 1 2-man crew Compass/tape with corner GPS Brushcut Continues:2 3-man crew

Survey = 23 Grids

165-167,171-172,193-196,196-200,245-247,253-256,269-272

Brushout = 7 Grids 140.197.209-213 EM-61 = 11 Grids57-60,65-68,85-88

I p.38-40

Dave Tyer (Surveyor)

Chuck Stoddard (Surveyor)

Mark Holley (Rodman) Bill Jakubowski (Rodman)

Jim Tomiko (Site Sup.)

Bill Pursino (H & S)

Steve Parker (Brushcut)

Karl Norberg (Brushcut)

**Clint Morris (Brushcut)** 

Mike Brantley (Brushcut)

3 "ONSITE" Laborers

DMS/Site Manager

OAA/PM

Beatrice Bidwell/EM-61

Tamir Klaff/EM-61

Jeff Ulmer

Josh Bowers/EM-61 Doug Daniels/EM-61

Other Persons Onsite:

Parsons Personnel/Activity:

Phone Contacts/Results:

1/14/97

R

Survey Continues: 2 3-man crew Compass/tape with corner GPS

Brushout Continues: 2 3-man crew

Corps site tour/Mag. fence contstruction

Survey = 22 Grids

257-260,249-252,217,218,49-56,73-78

Brushcut = 11 Grids

214-216,253-256,269-272

EM-61 = 16 Grids

61-64,33-36,29-32,17-20

1 p.41-45

Dave Tyer (Surveyor)

Chuck Stoddard (Surveyor)

Mark Holley (Rodman)

Bill Jakubowski (Rodman)

Jim Torniko (Site Sup.)

Bill Pursine (H & S)

Steve Parker (Brushcut)

Karl Norberg (Brushcut)

Clint Morris (Brushcut)

Mike Brantley (Brushcut)

3 "ONSITE" Laborers/4th added afternoon

**DMS/Site Manager** 

Beatrice Bidwell/EM-61

Tamir Klaff/EM-61

Jeff Ulmer

Josh Bowers/EM-61

Doug Daniels/EM-61

Karl Blankinship

Tommy Hunt/Wayne Bogan

Patti Berry/Greg Bayuga

Mike Casey/Neil Robinette/Dr. Lowry

Greg Bayuga issues raised/addressed

10% QC issue addressed

Dr. Lowry called:

- Discussed barn area/magazine area

- Talked with Wayne about grid locations

1/15/97

Survey Continues: 2 3-man crew Compass/tape with corner GPS Brushout Continues:2 3-man crew Mag. arrives site

Survey = 18 Grids

201-208,183,219-220,277-280,290-292

Brushout = 16 Grids

233-236,249-252,257-260,245-248

EM-61 = 17 Grids

26-28,13-16,37-44,69,71

i p.46-49

Dave Tyer (Surveyor)

Chuck Stoddard (Surveyor)

Mark Holley (Rodman)

Bill Jakubowski (Rodman)

Jim Tomiko (Site Sup.)

Bill Pursino (H & S)

Steve Parker (Brushcut)

Karl Norberg (Brushcut)

Clint Morris (Brushout)

Mike Brantley (Brushout)

4 "ONSITE" Laborers

**DMS/Site Manager** 

Sean Buckley/EM-61

Tamir Klaff/EM-61

Jeff Ulmer

Josh Bowers/EM-61

Doug Daniels/EM-61

Clark Vandeventer (UXB w/Mag)

Patti Berry/Tommy Hunt

Greg Bayuga

Greg Bayuga issues raised/addressed

Dr. Lowry called:

- Discontent with Mag, fence setup

Discontent with QC and frag to be left

- Discontent not informed of Corps onsite Corps met with Dr. Lowry at his house

Length of Workda, Activities Conducted: 1/16/97

8

Survey Continues:1 3-man, 1 2-man crew
Compass/tape with corner GPS
Brushcut Continues:2 3-man crew
Intrusive Work Initiated

Survey = 23 Grids

181,182,184,229,232,225-228,269,293-300,262-264

Brushcut = 10 Grids 178,193,194,196,198-204 EM-61 = 13 Grids

4,5,7,8,10,12,45,70,72,109-112

50-52 מן

Logbook #/pages
UXB Personnel/Activity:

Dave Tyer (Surveyor)
Chuck Stoddard (Surveyor)
Mark Holley (Rodman)
Bill Jakubowski (Rodman)
Jim Torniko (Site Sup.)
Bill Pursino (H & S)
Steve Parker (Brushout)

Karl Norberg (Brushcut/Intrusive) Clint Morris (Brushcut)

Mike Brantley (Brushcut/intrusive)

3 "ONSITE" Laborers
DMS/Site Manager

OAA/PM Sean Buckley/EM-61

Tamir Klaff/EM-61 Jeff Ulmer

Josh Bowers/EM-61
Doug Daniels/EM-61

Other Persons Onsite:

Parsons Personnel/Activity:

Patti Berry/Tommy Hunt Greg Bayuga

Phone Contacts/Results:

Dr. Lowry called:

Requested project status

Intrusive = Grid 13

Grids 125/126 delected per Karl B Video tapping of site activities began

Grid 65, 13, 14 MK 26ed in detail 10% QC Patterns defined for UXB

Intrusive = Grids14,65

1/20/97

А

Survey Continues: 2 2-man crew

Compass/tape with corner GPS

Brushcut Continues: 1 3-man, 1 2-man crew

Intrusive Work/Magazine grounded

Survey Continues: 1 3-man crew

Compass/tape with corner GPS

Brushcut Continues: 1 3-man, 1 2-man crew

Intrusive Work/Mock 60 burial in test grid

Survey = 12 Grids

79,101-104,97-100,287,288,275

Brushcut = 12 Grids 205-208,165-172 EM-61 = 13 Grids

EM-61 = 19 Grids EM-61 = 19 Grids 153,156,121,124,173-176,137-140,193,196,176,177,180,154 194,197-199,201-204

1 p.53-57

261,261-266,237-240,273,276,22,142,134-136,130-132,274

Survey = 22 Grids

Brushcut = 5 Grids

181-184,195 (heavy brush)

Dave Tyer (Surveyor)

Chuck Stoddard (Surveyor) Mark Holley (Rodman) Bill Jakubowski (Rodman)

Jim Tomiko (Site Sup.)
Bill Pursino (H & S)
Steve Parker (Brushcut)
Karl Norberg (Intrusive)
Clint Morris (Brushcut)
Mike Brantley (intrusive)

3 "ONSITE" Laborers

DMS/Site Manager

OAA/PM

Sean Buckley/EM-61

Tamir Klaff/EM-61 Jeff Ulmer Josh Bowers/EM-61 Doug Daniels/EM-61 I p.58-61

Dave Tyer (Surveyor)

Jim Tomiko (Site Sup Aest grid)
Bill Pursino (H & S/Rodman)
Steve Parker (Brushcut)
Karl Norberg (Intrusive)
Clint Mortis (Brushcut)

Karl Norberg (Intrusive)
Clint Morris (Brushcut)
Mike Brantley (Intrusive)
4 "ONSITE" Laborers
DMS/Site Manager

Sean Buckley/EM-61 Tamir Klaff/EM-61

Josh Bowers/EM-61 Doug Daniels/EM-61

EM-61 Broken Handle Day/Repair Video tapping of site activities continued First 105mm illum round found Grid 66

Intrusive = Grids 66,67,68

Length of Workday **Activities Conducted:**  1/21/97

Survey Continues: 1 3-man crew Compass/tape with corner GPS Brushcut Continues:1 3-man, 1 2-man crew intrusive Work

Survey = 7 Grids 105-108,77,78,80 FINISHED Brushcut = 26 Grids (9 only surf. clear)

EM-61 = 11 Grids 207-209.181-184,213-216

Logbook #/pages I p.62-65 **UXB Personnel/Activity:** Dave Tyer (Surveyor)

> Jim Torniko (Site Sup.) Bill Pursino (H & S/Rodman) Steve Parker (Brushout) Karl Norberg (Intrusive) Clint Morris (Brushout) Mike Brantley (intrusive) 4 "ONSITE" Laborers

> > Sean Buckley/EM-61 Tamir Klaff/EM-61

Josh Bowers/EM-61 Doug Daniels/EM-61

Phone Contacts/Results: Dr. Lowry called:

> - Requested intrusive in pond area priority Intrusive = Grids 29,197,198,200

Video taping of site activities continued

- Project status and inert 105 found

 Damage to firebreaks and browses Video taping of site activities continued Second 105mm illum round found Grid 205

1/23/97 R

Survey Complete Intrusive Continues: 1 2-man crew Brushout Continues:2 3-man crew

Intrusive = 9 Grids 173-176.137.138.178,179.194 Brushout = 6 Grids 22, 52-56 (heavy brush/Robinette) EM-61 = 20 Grids

245-248,272,212,77-80,105-108,253-258,269,270 l p.69-71

Jim Tomiko (Site Sup./QC) Bill Pursino (H & S/QC) Steve Parker (Brushout) Karl Norberg (Intrusive)

Clint Morris (Brushout) Mike Brantley (intrusive) 4 "ONSITE" Laborers **DMS/Site Manager** 

OAA/PM Sean Buckley/EM-61 Tamir Klaff/EM-61

Josh Bowers/EM-61 Doug Daniels/EM-61 Mike Casey/Nell Robinette

Dale Bugbee (QuantitTech)

Dr. Lowry called:

- Project status and 2 inert 105s found QC = 22 grids by UXB Video taping of site activities continued Third 105mm illum round found Grid 137 Fourth 105mm illum round found Grid 174

**DMS/Site Manager** 

Dr. Lowry called:

1/22/97

A

Survey Complete

Intrusive Continues: 1 2-man crew

Brushout Continues: 2 3-man crew

199/193/195/196/206/205/139/140

141,142,127-129,141,132-136,147-152,169,172

I p.66-68

Jim Torniko (Site Sup.)

Sill Pursino (H & S)

Steve Parker (Brushcut)

Karl Norberg (Intrusive)

Clint Morris (Brushout)

Mike Brantley (Intrusive)

4 "ONSITE" Laborers

**DMS/Site Manager** 

Sean Buckley/EM-61

Tamir Klaff/EM-61

Josh Bowers/EM-61

Doug Daniels/EM-61

Mike Casey - No driving off roadways

Intrusive = 8 Grids

Brushout = 8 Grids

49-51.77-80,108

EM-61 = 18 Grids

LOGBOOK XLS

Parsons Personnel/Activity:

Other Persons Onsite:

| Length of Workd Activities Conducted: | 1/26/97 8 Survey Complete Intrusive Continues: 4 teams  Intrusive = 6 Grids, partials 26-28,45,46,59 Brushcut = 0 Grids  EM-61 = 20 Grids                         | Survey Complete Intrusive Continues: 1 2-man crew Brushcut Continues: 2 3-man crew Intrusive = 2 Grids 177,180 Brushcut = 10 Grids 89-96, 98, 100 (98,100 clear only) EM-61 = 16 Grids | 1/28/97  8  Survey Complete  Intrusive Continues: 1 2-man crew  Brushcut Continues: 2 3-man crew  Initially all intrusive then switched over  Intrusive = 3 Grids  57,60,62  Brushcut = 8 Grids  293-300  EM-61 = 13 Grids |
|---------------------------------------|---|--|--|
| Logbook #/pages                       | 249-252,271,233-236,257,260,22,49-56  | 9,11,47,48,98,100,256,259,123,81-84,165,166,188  | 89-96,167,170,171,130,131  |
| UXB Personnel/Activity:               | i p.72-74   | 1 p.75-77  | ( p.78-80  |
| Parsons Personnel/Activity:           | Jim Tomiko (Site Sup.)  Bill Pursino (H & S)  Steve Parker (intrusive)  Karl Norberg (Intrusive)  Clint Morris (intrusive)  4 "ONSITE" Laborers  DMS/Site Manager | Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Intrusive) Clint Morris (Brushcut) Mike Brantley (Intrusive) 4 "ONSITE" Laborers DMS/Site Manager    | Jim Tomiko (Site Sup.)  Bill Pursino (H & S)  Steve Parker (Brushcut)  Karl Norberg (Intrusive)  Clint Morris (Brushcut)  Mike Brantley (Intrusive)  4 "ONSITE" Laborers  DMS/Site Manager                                 |
| ,                                     | Sean Buckley/EM-61  | Sean Buckley/EM-61   | Sean Buckley/EM-61   |
|                                       | Tamir Klaff/EM-61   | Tamir Klaff/EM-61  | Tamir Klaff/EM-61  |
| Other Persons Onsite:                 | Josh Bowers/EM-61   | Josh Bowers/EM-61  | Josh Bowers/EM-61  |
|                                       | Jeff Ulmer/EM-61  | Jeff Ulmer/EM-61   | Jeff Ulmer/EM-61   |
|                                       | Mike Casey & Family   | Mike Casey/Neil Robinette  | Neil Robinette   |
| Phone Contacts/Results:               |   | Dr. Lowry called:<br>- Project status  | Video taping of site activities continued<br>Fifth 105mm illum round found Grid 48   |

Video tapping of site activities continued

| Length of Workday<br>Activities Conducted: | 1/29/97 8 Survey Complete Intrusive on hold Brushcut Continues:3 teams   | 1/30/97<br>8<br>Survey Complete<br>Intrusive Continues: 1 2-man crew<br>Brushcut Continues: 2 3-man crew  | 1/31/97<br>8<br>Survey Complete<br>Intrusive on hold<br>Brushcut Continues:2 2-man crew   |
|--|--|---|---|
| Logbook #/pages<br>UXB Personnel/Activity; | Intrusive = 0 Grids  Brushout = 16 Grids  261-264,237-240,289-292,277-280  EM-61 = 21 Grids  293-296,237-240,289-292,280,297-300,261-264  I p.81-83  | Intrusive = 12 Grids<br>289-300 (5 had 0 anomalies)<br>Brushout = 9 Grids<br>101-104,217-220,97<br>EM-61 = 3 Grids (1 crew for 1/2 day)<br>277-279                                  | Intrusive = 0 Grids  Brushcut = 7 Grids  73-77,99,157,158  EM-61 = 0  I p.87-89   |
| Parsons Personnel/Activity:                | Jim Tomiko (Site Sup./QC)  Bill Pursino (H & S/QC)  Steve Parker (Brushcut)  Karl Norberg (Intrusive)  Clint Morris (Brushcut)  Mike Brantley (Intrusive)  4 "ONSITE" Laborers  DMS/Site Manager  Sean Buckley/EM-61 | Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Intrusive) Clint Morris (Brushcut) Mike Brantley (Intrusive) 4 "ONSITE" Laborers OMS/Site Manager | Jim Tomiko (Site Sup.) Bill Pursino (H & S) Steve Parker (Brushcut) Karl Norberg (Brushcut) Clint Morris (Brushcut) Mike Brantley (Brushcut) DMS/Site Manager |
| Other Persons Onsite:                      | Tamir Klaff/EM-61  Josh Bowers/EM-61  Jeff Ulmer/EM-61  Mike Casey/Neil Robinette  | Sean Buckley/demob Tamir Klaff/EM-61  Josh Bowers/demob Jeff Ulmer/EM-61  | Mike Casey  |
| Phone Contacts/Results;                    | Video taping of site activities continued  Dr. Lowry called: - Project status and 5th 105  Grid 288 deleted  | Video taping of site activities completed  Dr. Lowry called: - Project status   | Sixth 105mm ithum round found Grid 85   |

LOGBOOK.XLS

Grid 288 deleted QC = 10 grids by UXB

|                             | 2/3/97   | •  | <b>2/5/97</b><br>8   |
|-----------------------------|--|--|--|
| Length of Workday           | 8  | Survey Complete  | Survey Complete  |
| Activities Conducted:       | Survey Complete                                      | Intrusive Continues: 2 2-man crew  | Intrusive on hold  |
|                             | Intrusive on hold<br>Brushout Continues:2 2-man crew | Brushout on hold   | Brushcut Continues:2 2-man crew  |
|                             | Intrusive = 0 Grids                                  | Intrusive = 27 Grids, (9 were 0 anomalies)<br>237-240,249-256,261-264,269,270,272,87,246,277-260,201,202 | Intrusive = 0 Grids  |
|                             | Brushout = 4 Grids                                   | Brushcut = 0 Grids   | Brushcut = 8 Grids<br>225-228,229-232                                    |
|                             | 159,160,281,284<br>EM-61 = 14 Grids                  | EM-61 = 0 Grids  | EM-61 = 11 Grids<br>101-104,225-228,281,282,284,225-228,199 (recheck).28 |
| Logbook #/pages             | 73-76,157-160,97,99,217-220<br>I p.90-95             | l p.96-98  | I p.99-100   |
| UXB Personnel/Activity:     |  |  |  |
|                             | Jim Tomiko (Site Sup/QC.)                            | Jim Tomiko (Site Sup/QC.)<br>Bill Pursino (H & S/QC)   | Jim Tomiko (Site Sup/QC.)<br>Bill Pursino (H & S/QC)                     |
|                             | Bill Pursino (H & S/QC)                              | Steve Parker (intrusive)   | Steve Parker (Brushout)  |
|                             | Steve Parker (Brushcut)                              | Karl Norberg (intrusive)   | Karl Norberg (Brushcut)  |
|                             | Karl Norberg (Brushcut)                              | Clint Morris (intrusive)   | Clint Morris (Brushcut)  |
|                             | Clint Morris (Brushcut)<br>Mike Brantiey (Brushcut)  | Mike Brantley (intrusive)  | Mike Brantley (Brushcut)   |
| December 118 attaches       |  | DMS/Site Maneger   | DMS/Site Manager   |
| Parsons Personnel/Activity: | OAA/PM   | OAA/PM   | OAA/PM   |
|                             | W. T. T.   | (- Cf   Huses  | Jeff Ulmer/EM-61   |
|                             | Jeff Ulmer/EM-61                                     | Jeff Ulmer   | Tamir Klaff/EM-61  |

Jim Anelle (Corps QA)

Dr. Lowry called:

- Project status

QC = 12 grids by UXB

Jim Anelle (Corps QA)

Randy Frasser (Corps QA)

QC = 4 grids by UXB

Grids 148 and 75 deleted

Jim Anelle (Corps QA)

Randy Frasser (Corps QA)

Jim/Bill also assisted in Brushout

QC = 5 grids by UXB

Other Persons Onsite:

Phone Contacts/Results:

|                             | 2/6/97  | 2/7/97  | 2/48/07  |
|-----------------------------|---|---|--|
| Length of Workday           | 8   | 8   | <b>2/10/97</b><br>10                           |
| Activities Conducted:       | Survey Complete                                       | Survey Complete   | Survey Complete                                |
|                             | Intrustve Continues: 1 2-man crew                     | Intrusive Continues: 2.2-man crew                                 | Intrusive Continues: 2 2-man crew              |
|                             | Brushcut Continues: 1 2-man crew                      | Brush Cut Complete  | Brush Cut Complete                             |
|                             |   | ·   | Sissif out Compete                             |
|                             | Intrusive = 1 Grids                                   | Intrusive = 24 Grids (8 had 0 anomaly)                            | Intrusive = 13 Grids (8 had 0 anomaly)         |
|                             | 154, several partials                                 | 18-20,22,33,35,38,41,43,44,48-52,54,17,98,102,104,185,167,172,225 | 3-8,15,16,34 (O anomalies for 273,274,285-287) |
|                             | Brushcut = 8 Grids                                    |   | ,        |
|                             | 273-276,295-287,283 FINISHED                          |   |  |
|                             | EM-61 = 0 Grids                                       | EM-61 = 12 Grids, "Skirt" mode today                              | EM-61 Work Completed                           |
|                             |   | 273-276,283,285-287,229-232                                       |  |
| Logbook #/pages             | R p.1−4   | II p.5-7  | II p.8-9                                       |
| UXB Personnel/Activity:     |   | ,   | 11 p.o-9                                       |
|                             |   |   |  |
|                             | No. We to some a con-                                 |   |  |
|                             | Jim Tomiko (Site Sup/intrusive)                       | Jim Tomiko (Site Sup/QC/intrusive)                                | Jim Tomiko (Site Sup/QC/intrusive)             |
|                             | B間 Pursino (H & S/intrusive)                          | Bill Pursino (H & S/QC/intrusive)                                 | Bill Pursino (H & S/QC/intrusive)              |
|                             | Steve Parker (Brushcut)                               | Steve Parker (intrusive)  | Steve Parker (intrusive)                       |
|                             | Karl Norberg (intrusive)                              | Karl Norberg (Intrusive)  | Karl Norberg (intrusive)                       |
|                             | Clint Morris (Brushcut)                               | Clint Morris (intrusive)  | Clint Morris (intrusive)                       |
|                             | Mike Brantley (intrusive)                             | Mike Brantley (intrusive)   | Mike Brantley (Intrusive)                      |
| Parsons Personnel/Activity: | DMS/Site Manager                                      | <b>-</b>  | ·  |
|                             | OAA/PM  | DMS/Site Manager  | DMS/Site Manager                               |
|                             | Jeff Ulmer  |   |  |
|                             | Jell Oxfiet   | Jeff Ulmer/EM-61  |  |
|                             |   | Tamir Klaff/EM-61   |  |
| Other Persons Onsite:       |   |   |  |
| ours resous Unsite:         | Jim Anelle/Randy Frasser (Corps QA)                   |   | Neil Robinette                                 |
|                             | Karl Blankinship/Ken Stockwell                        |   |  |
|                             | Wayne Bogan/Major                                     |   |  |
| Shana Cautanta —            | Mike Casey-Pond area work now                         |   |  |
| Phone Contacts/Results:     | Mobilized UXB to intrusive at location                |   | Karl Blankinship for for hours change          |
|                             | Landfill not closed/workers moved temp.               |   |  |
|                             | _   | QC = 2 grids by UXB   | QC = 20 grids by UXB                           |
|                             | Seventh 105mm illum round found Grid 155              |   | griff wy write                                 |
|                             | Dr. Lowry called:                                     |   |  |
|                             | <ul> <li>Project status and 7th 105 illum.</li> </ul> |   |  |
|                             | - Reiterated pond area priority                       |   |  |
| LOCROOKVIA                  |   |   |  |

LOGBOOK.XLS

Length of Workd **Activities Conducted:**  2/11/97 10

**Survey Complete** Intrusive Continues: 2 2-man crew

**Brush Cut Complete** 

**Survey Complete** Intrusive Continues: 2 2-man crew **Brush Cut Complete** 

2/13/97

10 (Weather Shortened to 4) **Survey Complete** 

Intrusive Continues: 2 2-man crew **Brush Cut Complete** 

Intrusive = 23 Grids

Intrusive = 29 Grids 111,112,121,122,124,153,155,42,69,70-72,89-95,157-159....12 97,99-101,103,217-220,245,246,271,275,276,281-284,

Intrusive = 1 Grids

152 - Worked called by UXB for Weather

247,257-260,226-231

EM-61 Work Completed

EM-61 Work Completed

EM-61 Work Completed

Logbook #/pages

II p.10-12

1i p.13-15

II p.16-17

**UXB Personnel/Activity:** 

Jim Tomiko (Site Sup/Intrusive) Bill Pursino (H & S/intrusive) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (intrusive) Mike Brantley (Intrusive)

Jim Torniko (Site Sup/intrusive) Bill Pursino (H & S/intrusive) Steve Parker (Intrusive) Karl Norberg (intrusive) Clint Morris (intrusive) Mike Brantley (intrusive)

Jim Tomiko (Site Sup) Bill Pursino (H & S) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (Intrusive)

Parsons Personnel/Activity:

**DMS/Site Manager** 

**DMS/Site Manager** 

**DMS/Site Manager** 

Other Persons Onsite:

Jim Anelle/Randy Frasser (Corps QA)

Jim Anelle/Randy Frasser (Corps QA) UXB Brantley departure day

Jim Anelle/Randy Frasser (Corps QA) **UXB Weather Day** 

QC = 7 grids by UXB

Phone Contacts/Results:

Grid 123 intrusive issue

Mike Casey

| Length of Workday<br>Activities Conducted:     | 2/14/97 6 Survey Complete Intrusive Continues: 2 2-man crew Brush Cut Complete Intrusive = 2 Gricis 106,107   | 2/18/97 10 Survey Complete Intrusive Continues: 2 2-man crew Brush Cut Complete Intrusive = 16 Grids 128-136,141,147,166,168-171  | 2/19/97 10 Survey Complete Intrusive Continues: 2 2-man crew Brush Cut Complete Intrusive = 15 Grids 232,105,108,73,76-80,127,142,149-151   | 2/20/97 10 Survey Complete Intrusive Continues: 2 2-man crew Brush Cut Complete Intrusive = 9 Grids  |
|--|---|---|---|--|
| Logbook #/pages<br>UXB Personnel/Activity:     | EM-61 Work Completed  | EM-61 Work Completed II p.20-25   | EM-61 Work Completed II p.26-28   | EM-61 Work Completed II p.29-31  |
| Parsons Personnel/Activity:                    | Jim Tomiko (Site Sup/QC/intrusive) Bill Pursino (H & S/QC/intrusive) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (intrusive)  DMS/Site Manager | Jim Tomiko (Site Sup/QC/intrusive) Bill Pursino (H & S/QC/intrusive) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (intrusive) Mark Holley (intrusive)  DMS/Site Manager   | Jim Tomiko (Site Sup/QC/intrusive) Bill Pursino (H & S/QC/intrusive) Steve Parker (Intrusive) Karl Norberg (Intrusive) Clint Morris (Intrusive) Mark Holley (Intrusive)  DMS/Site Manager | Jim Torniko (Site Sup/QC/intrusive) Biil Pursino (H & S/QC/intrusive) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (intrusive) Mark Holley (intrusive)  DMS/Site Manager |
| Other Persons Onsite:  Phone Contacts/Results: |   | Jim Aneile (Corps QA)  Demolition/30 min landfill closure  QC = 15 grids by UXB  8th 105mm illum round found Grid 166  9th 105mm. LIVE HE round found Grid 131  10th 105mm illum round found Grid 133  Dr. Lowry celled:  - Project status and LIVE 105 | Jim Anelle/Hank Counts(Corps QA)  QC = 39 grids by UXB  11th 105mm illum round found Grid 61  Mike Casey  Dr. Lowry called:  - Project status and claims issues                           | Jim Aneile(Corps QA) Dr. Lowry Mike Casey/Neil Robinette  QC = 48 grids by UXB "Gator" onsite from HFA   |

| Length of Workday Activities Conducted:    | 2/21/97<br>10<br>Survey Complete<br>Intrusive Continues: 2 2-man crew<br>Brush Cut Complete   | 2/24/97 10 Survey Complete Intrusive Continues: 2 2-man crew Brush Cut Complete  | 2/25/97<br>10<br>Survey Complete<br>Intrusive Continues: 2 2-man crew<br>Brush Cut Complete   | 2/26/97 10 Survey Complete Intrusive Continues: 2 2-man crew Brush Cut Complete   |
|--|---|--|---|---|
|  |   | Intrusive = 11 Grids<br>233-236,203,204,208,182,183,184,110  | intrusive = 12 Grids<br>81-84,37-40,63,85-87  | Intrusive = 7 Grids<br>25, 199 (redo),181,109,30-32 FINISHED  |
|  | EM-61 Work Completed  | EM-61 Work Completed   | EM-61 Work Completed  | EM-61 Work Completed  |
| Logbook #/pages<br>UXB Personnel/Activity: | II p.32-33  | 11 p.34-37   | 11 p.38-41  | li p.42 <del>-4</del> 5   |
| Parsons Personnel/Activity:                | Jim Tomiko (Site Sup/QC/intrusive) Bill Pursino (H & S/QC/intrusive) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (intrusive) Mark Holley (intrusive)  DMS/Site Manager | Jim Tomiko (Site Sup/intrusive)  Jeff Osborne (H & S/QC/intrusive)  Steve Parker (intrusive)  Karl Norberg (intrusive)  Clint Morris (intrusive)  Mark Holley (intrusive)  James Ferris (UXB Corporate/QC)  DMS/Site Manager | Jim Tomiko (Site Sup/intrusive) Jeff Osborne (H & S/QC/intrusive) Steve Parker (intrusive) Karl Norberg (intrusive) Clint Morris (intrusive) Mark Holley (intrusive) James Ferris (UXB Corporate/QC) DMS/Site Manager | Jim Tomiko (Site Sup/intrusive) Jeff Osborne (H & S/QC/intrusive) Steve Parker (intrusive/demob) Karl Norberg (intrusive/demob) Clint Morris (intrusive/demob) Mark Holley (intrusive/demob) James Ferris (UXB Corporate/QC) DMS/Site Manager |
| Other Persons Onsite:                      |   | Dr Lowry/Mike Casey -informed him of 105mm illum finding today -discussed mag fence location/barn issue  | Jim Anelle(Corps QA)  | Jim Anelle/Hank Counts(Corps QA)  |
| Phone Contacts/Results:                    | Bill Pursino last day-left early<br>QC = 1 grids by UXB   | Hank Counts(Corps QA)  QC = 8 grids by UXB  12th 105mm illum round found Grid 110  | QC = 21 grids by UXB 13th 105mm illum round found Grid 81 14th 105mm illum round found Grid 83 15th 105mm illum round found Grid 83 Dr. Lowry called: - Project status and 105 findings                               | Restored "test" grid. Returned objects<br>QC = 24 grids by UXB. QC FINISHED<br>49 grids QAed by Corps as of 2/25/97<br>50 grids QAed by Corps today   |

Length of Workday **Activities Conducted:**  10

Survey Complete Intrusive Work Completed Brush Cut Complete EM-61 Work Completed

2/27/97

3/4/97

Survey Complete Intrusive Work Completed **Brush Cut Complete** EM-61 Work Completed Final Site Closure/Restoration

Logbook #/pages UXB Personnel/Activity:

II p.46-48

Jim Tomiko (Site Sup/demob) Jeff Osborne (H & S/demob) Steve Parker (demob) Karl Norberg (demob) Clint Morris (demob) Mark Holley (demob) James Ferris (UXB Corporate) DMS/Site Manager

Parsons Personnel/Activity:

OAA/PM

Other Persons Onsite-

Jim Anelle(Corps QA) Mike Casey/Neil Robinette

Phone Contacts/Results:

"Gator" signed by Jim Annelle

QC = FINISHED

QC = FINISHED

QA by Corps to continue next week

Dr. Lowry called:

- Project status

Karl Blankinship-explosives ownership issue

LOGBOOK,XLS

APPENDIX F QC DOCUMENTATION



#### Quality Conformance Inspection (QCI) Record

| Date: 2/16/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSINO -  | SIM TOMIKO  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID # 3NE | grid number and assigned team; coordinates  |
| III. QCI Results: SAT  1- HIT SMALL   | FRAG  |
|   |   |
| IV. Corrective Actions Recommended (to include                                  | controls to prevent recurrence):  |
|   |   |
| V. Signatures  William  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |

4



U)03 Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 2//0/97 Time: C   | ontract Number:   |
|---|---|
| Delivery Order Number: 7206.002 L   |   |
| Personnel Involved: BILL PURSING - Ju   | u Torucko   |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid ror description)<br>GRID # 4 Sを | number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include con                                      | trols to prevent recurrence):   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - Ne Alusin   |   |

# WALLO BY

#### Quality Conformance Inspection (QCI) Record

| Date: 2/10/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   | Location: CAMP CROFT OOU 6                                    |
| Personnel involved: BILL PURSING -  | lu Tomiko   |
| I. Work Plan Reference: 560.776N 4  |   |
| II. Activity Inspected/Reinspected: (List by task; grior description)  GRID # 5 CTR | d number and assigned team; coordinates                       |
| III. QCI Results: 5AT 3 HITS 5m HR  | MG  |
| iV. Corrective Actions Recommended (to include o                                    | controls to prevent recurrence):                              |
|   |   |
| V Signatures:   | i acknowledge that I have been briefed on the results of this |
| V. Signatures:  | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader   | St. UXO Supervisor/Project Manager                            |

6



#### Quality Conformance Inspection (QCI) Record

| Date: 2/16/97 Time:                                  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                      | Location: Charl CROFT OOU 6   |
| Personnel Involved: BILL AURSINO -                   |   |
| I. Work Plan Reference: SECTION 4                    |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; g | grid number and assigned team; coordinates  |
| or description)                                      |   |
|  |   |
| <del></del>  |   |
| III. QCI Results: SAT                                |   |
|  |   |
| 4- HiTS Sm H   | ear   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include       | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                                       | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCT Toom I and or                                    | Fr LIVO Superviser/Orains &   |
| QC/ Team Leader                                      | ర్r. UXO Supervisor/Project Manager   |

# T VX

UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| / /.   |   |
|--|---|
| Date: 2/16/97 Time:  | Contract Number:  |
| Delivery Order Number: 7206.002                                    | Location: CHAP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO —                                 | JUM TOMIKO  |
| I. Work Plan Reference: SECTION 4                                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates  |
| GRID# 7 CTR  |   |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
| 6 HITS DUM   | ELOUS FRAG-   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
|  |   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UNB Form 95-1.0020

## Quality Conformance inspection (QCI) Record

| //  |   |
|---|---|
| 1 1   | Contract Number:  |
|   | Location: Charl CROFT OOU 6   |
| Personnel Involved: BILL AURSINO  | - Jun Tomiko  |
| I. Work Plan Reference:   |   |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID # 7 5W | sk; grid number and assigned team; coordinates  |
| III. QCI Results: SAT   |   |
| 7- H175 Sm FR   | MG  |
|   |   |
|   |   |
| tV. Corrective Actions Recommended (to incli                                  | ude controls to prevent recurrence):  |
|   |   |
|   |   |
| V. Signatures:  | f acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC1 Team Leader   | Sr. UXO Supervisor/Project Manager  |
|   | <del></del>   |



| Date: 24 Fc6 97 Time: 1460 Contract Number:  |  |
|--|--|
| Delivery Order Number: 7200, 002 Location: Co. Croft   |  |
| Personnel Involved: J. Detective J. Ferris   |  |
| <del></del>  |  |
| I. Work Plan Reference:  |  |
|  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  |  |
|  |  |
|  |  |
|  |  |
| III. QCI Results: 5a+  |  |
|  |  |
| * Server and State of the State |  |
| Clean Good   |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| V. Signatures:  I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   |  |
| 1 Tole   |  |
| QCN Tearh Leader Sr. UXO Supervisor/Project Manager  |  |



UXS Form 95-1,0020

## Quality Conformance Inspection (QCI) Record

| Date: 24 Fcb 97 Time: 1400   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: Co. Croft   |
| Personnel Involved: J. Ostoc J. F.   | 2775  |
| I. Work Plan Reference:ਪੋ  |   |
| II. Activity Inspected/Reinspected: (List by task; gn<br>or description) (とい) 世 1〇 (Ccハナ |   |
| III. QCI Results: Sat  | Fraq  |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include c   | ontrols to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC Team Leader   | Sr. UXO Supervisor/Project Manager  |



| Date: 24 Feb 97 Time: 1400 Co   | ontract Number:   |
|---|---|
|   | A C - C - C   |
|   | ocation: Cp Creft   |
| Personnel Involved: J. Oskorne, J. Free's   |   |
| I. Work Plan Reference: Section 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid nor description) らいよ は い Cender | umber and assigned team; coordinates  |
| III. QCI Results: Sat   |   |
| 18 Lits Small F   | ra5   |
|   |   |
| IV. Corrective Actions Recommended (to include cont                                     | trols to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

## Quality Conformance Inspection (QCI) Record

| Date: <u>24 Fr6 97</u> Time: 1400 C   | Contract Number:  |
|---|---|
| Delivery Order Number: <u> </u>   | ocation: Co Cooff   |
| Personnel involved:   | <u>'</u>  |
| I. Work Plan Reference: Scc+(c~ 각   |   |
| II. Activity Inspected/Reinspected: (List by task; grid in or description) (List) # 12 (Control or description) | number and assigned team; coordinates   |
| III. QCI Results: Sat   | ng  |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include con  | ntrols to prevent recurrence):  |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCL Team Leader   | Sr. UXO Supervisor/Project Manager  |



| Date: <u>5F±897</u> Time:                   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002             | Location: Chul CROFT OOU 6  |
| Personnel Involved: BILL AURSINO            |   |
|   |   |
| I. Work Plan Reference:                     |   |
|   |   |
|   | sk; grid number and assigned team; coordinates  |
| or description) GRID # 13 NU                |   |
| GX10 44- 13 10 W                            |   |
|   |   |
|   |   |
| III. QCI Results: SAT - //                  | H175  |
|   |   |
|   |   |
| SMALL FRAC                                  | E BARBINIEL   |
| 3707760 7 10710                             | - HILL HOLLE  |
|   |   |
| 11/ Companies Antique Decomposided (to inci | udo controle to provent converses.  |
| IV. Corrective Actions Recommended (to incl | ude controls to prevent recuttence).  |
|   |   |
|   |   |
|   |   |
|   |   |
|   | <u> </u>  |
|   |   |
| V. Signatures:                              | l acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M. Hersing                                  |   |
| OCI Team Leader                             | Sr. L/XO Supervisor/Project Manager   |



UXB Form 95-1.0020

### Quality Conformance Inspection (QCI) Record

| Date: 5 FEB 97 Time: Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: Charle Close OOU 6  |
| Personnel Involved: BILL FURSING - JIM TOMIKO   |
| I. Work Plan Reference:   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # /4 NE               |
| III. QCI Results: SAT - 14 HITS, SUALL FRAG   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
| TV. Corrective Actions recommended (to include controls to prevent recultence).   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Hersine  |
| QCI Team Leader St/UXO Supervisor/Project Manager   |



| Date: 2/16/97 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL PURSING -   | Jul Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 16 SE | grid number and assigned team; coordinates  |
|  |   |
| III. QCI Results: SAT  |   |
| 8-HITS DUMER   | Our Care  |
| O 17113 DUMEN  | au rais   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been brisled on the results of this inspection and will take corrective actions (if necessary). |
| M Hursuv   | Took  |
| QQI Team Leader  | Sr./UXO Supervisor/Project Manager  |

15



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| <del></del>   |   |
|---|---|
| Date: _2//4/97 Time:  | Contract Number:  |
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSINO -  | Jul Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by task; g or description)  GRID # 20 15 Na | <u> </u>  |
| III. QCI Results: SA-T  |   |
| 12- HATS NUMBROWS   | KARS  |
| IV. Corrective Actions Recommended (to include  | controls to prevent recurrence):  |
|   |   |
|   |   |
| V. Signatures;  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr XIXO Supervisor/Project Manager  |



UXB Form 95-1.0020-

#### Quality Conformance Inspection (QCI) Record

| Date: 2/10/97 Time: Contract Number:  Delivery Order Number: 7206.002 Location: CAMP CROFT OOU 6  Personnel involved: BILL PURSINO — JIM TOMIKO  I. Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID ## /8 NW  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence): |  |                                    |
|--|--|------------------------------------|
| I. Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # /8 NW  III. QCI Results: SAT  | Date: 2/10/97 Time: Contr                              | act Number:                        |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # /8 NW  III. QCI Results:  SAT  |  |                                    |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # /8 NW  III. QCI Results:  SAT  NUMBROUS FRACE  | Personnel Involved: BILL PURSING - SIM                 | Tomiko                             |
| Or description)  GRID # 18 NW  III. QCI Results: SAT  NUMERous FRAG  | I. Work Plan Reference: <u>S€C776N</u> 4               |                                    |
| NUMEROUS FRAG  | or description)  | ber and assigned team; coordinates |
|  | III. QCI Results: SAT                                  |                                    |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  | NUMEROUS FRAG  |                                    |
|  | IV. Corrective Actions Recommended (to include control | s to prevent recurrence):          |
|  |  |                                    |
|  |  |                                    |
|  |  |                                    |
| V. Signatures:  I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   | V. Signatures:   | <b>-</b>                           |
| QC/Team Leader Sr. UXO Supervisor/Project Manager  |  | . UXO Supervisor/Project Manager   |



| /-1  |   |
|--|---|
| Date: 2/16/97 Time:  | Contract Number:  |
|  | 2 Location: Chall CROFT OOU 6   |
| Personnel Involved: BILL AURSINO   | - Jun Tomiko  |
| I. Work Plan Reference:  | 4   |
| II. Activity Inspected/Reinspected: (List by to or description)  GRID # 175E | ask; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  2 H1TS Sn   | TALL FRAG   |
|  |   |
| IV. Corrective Actions Recommended (to inc                                   | clude controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M Musin  |   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |

20



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 2/10/97 Time:  | Contract Number:   |
|--|--|
| Delivery Order Number: 7206.002  | Location: CAMP CROFT OOU 6   |
| Personnel Involved: BILL AURSINO   | - Jun Tomiko   |
| I. Work Plan Reference: SECTION 4  |  |
|  |  |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID # 20 SE | sk; grid number and assigned team; coordinates   |
|  |  |
|  |  |
| III. QCI Results: SAT  |  |
|  |  |
| SMALL FRAM   | s 3H175  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended (to incl                                    | ude controls to prevent recurrence):   |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| V. Signatures:   | I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary). |
| 1 Hursin   |  |
| QCI Team Leader  | Sr./ÚXO Supervisor/Project Manager   |



| Date: 7/10/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSING -  | Sum Tomiko  |
| i. Work Plan Reference: <u>SEC 776N 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; gror description)  GRID # 19 NW  III. QCI Results: SAT  SMAW MAK | id number and assigned team; coordinates  |
|   |   |
| IV. Corrective Actions Recommended (to include o  | controls to prevent recurrence):  |
|   |   |
|   |   |
| V. Signatúres: A  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| · · · · · · · · · · · · · · · · · · ·   |   |
| 1 Husew   |   |

24



### Quality Conformance Inspection (QCI) Record

| Date: 7 #8 97 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                                    | Location: Charl CROFT OOU 6                                 |
| Personnel Involved: BILL PURSING -                                 |   |
|  |   |
| i. Work Plan Reference: <u>SECTION 4</u>                           |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates                  |
| GRID# 245W   |   |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
|  |   |
| SM fiece Wire  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):                          |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:/  | acknowledge that I have been briefed on the results of this |
| - le Hursin  | inspection and will take corrective actions (if necessary). |
| QC/ Team Leader  | Sr. UXO Supervisor/Project Manager                          |



LDCB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>7 FEB 97</u> Time:  |   |  |
|--|---|--|
| Delivery Order Number: 7206.002  | Location: CHUP CROFT OOU 6  |  |
| Personnel Involved: BILL PURSINO - SIM TOMIKO  |   |  |
| I. Work Plan Reference: SECTION 4  |   |  |
| II. Activity Inspected/Reinspected: (List by task; gas or description)  GRID # 22 NE | rid number and assigned team; coordinates   |  |
| III. QCI Results: <u>SAT</u>   |   |  |
| 1 Sum to FAAG  |   |  |
| IV. Corrective Actions Recommended (to include o                                     | controls to prevent recurrence):  |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| le Hursin  | Tools   |  |
| QC/Team Leader   | Sr. UXO Supervisor/Project Manager  |  |



| Date: 3 FEB 97 Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: Charl CROFT OOU 6   |
| Personnel Involved: BICL AURSINO -   | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # 2656 | k; grid number and assigned team; coordinates   |
| III. QCI Results: SAT - 6 H / 75   | SMALL FRAC  |
|  |   |
| IV. Corrective Actions Recommended (to inclu                                   | de controis to prevent recurrence):   |
|  |   |
| V. Signaturęs:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - 11 Hersin  | inspection and will muse corrective actions (if necessary).   |
| QCI Team Leader  | Sr.XXO Supervisor/Project Manager   |



UXB International, Inc.

| Date: 26 Feb 97 Time: 1402 Contract Number:   |  |
|---|--|
|   |  |
| Delivery Order Number: 7206, 002 Location: Cp Csc C4  |  |
| Personnel Involved: J. Dstarne, J. Ferris   |  |
| 1. Work Plan Reference: Section 4   |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) とこん せっこ |  |
| 4   |  |
|   |  |
|   |  |
| III, QCI Results: SAT   |  |
|   |  |
| 4 Hits small Frag   |  |
|   |  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):                                       |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures; 1 admowledge that I have been briefed on the results of this   |  |
| inspection and will take corrective actions (if necessary).   |  |
| QCIVeam Leader Sr. UXO Supervisor/Project Manager   |  |
| QCNTeam Leader Sr. UXO Supervisor/Project Manager   |  |

UXB Form 95-1.0020



| Date: <u>5 / £8 47</u> Time: Cont   | ract Number:   |
|---|--|
| Delivery Order Number: 7206.002 Loca  |  |
| Personnel Involved: BILL AURSING — JIM  | Tomiko   |
| I. Work Plan Reference: SECTION 4   |  |
| II. Activity Inspected/Reinspected: (List by task; grid num or description)  GRID # 78 NE | nber and assigned team; coordinates  |
| III. QCI Results: SAT 5 SMALL   | FRAG   |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to include contro                                     | ls to prevent recurrence):   |
|   |  |
|   |  |
|   |  |
|   |  |
| v. Signatures:  | cknowledge that I have been briefed on the results of this spection and will take corrective actions (if necessary). |
| QCI Team Leader S   | r: UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

## Quality Conformance Inspection (QCI) Record

| Date: 5FEB 97 Time: Contract Number:  |
|---|
| Delivery Order Number: 7206.002 Location: Charle CROFT OOU 6  |
| Personnel Involved: BILL AURSINO - SIM TOMIKO   |
|   |
| I, Work Plan Reference:   |
|   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                             |
| GRID# 17 CTR  |
|   |
|   |
| III. QCI Results: SAT I SMALL FRAG  |
| JA! I SIMILE I 1948   |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M Hursin Tolo   |
| QCI/Team Leader Sr. VXO Supervisor/Project Manager  |



| Date: 26 Fcb 97 Time: 44cc Contract Number:  |
|--|
| Delivery Order Number: 7266.662 Location: Cp Cccf4   |
| Personnel Involved: J. Dshorne, J. Ferris  |
| I. Work Plan Reference: <u>Scotica นี</u>  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) (のでは、 は は で                  |
| III. QCI Results: Set  |
| 7 Hits small Frag  |
|  |
|  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
|  |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC/Team Leader Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 1-23-97 Time: Contract Number:   |
|--|
| Delivery Order Number: 7206.002 Location: CAMP CROFT 00U6  |
| Personnel Involved: BILL PURSING - JIM TOMIKO  |
| I. Work Plan Reference:  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  ——————————————————————————————————— |
| III. QCI Results: SATISTACTORY   |
| 4 SMAL PIECES FRAG   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).          |
| QCI Team Leader Sr. XXO Supervisor/Project Manager   |



| Date: 26 F-6 97 Time: 1400 Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: Cp CccC+  |
| Personnel Involved: J. Ostarne, J. Ferris   |
| I. Work Plan Reference: Section 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいいで 32                     |
|   |
| III. QCI Results: Sat   |
| lo Hits Small Frag  |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Project Manager  |



| Date: 26 Fct 97 Time: 1400 Contra   | ct Number:  |
|---|---|
| Delivery Order Number: 7206.002 Locati  | on: Cp. Cceft   |
| Personnel Involved: 1 Osbocne 1 Ferris  |   |
| I. Work Plan Reference: Scotica 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいは 単っ」 |   |
| III. QCI Results: Sat  8 2 Hits Small Frag  |   |
|   |   |
| IV. Corrective Actions Recommended (to include controls   | to prevent recurrence):   |
|   |   |
| V. Signatures:  OCI Team Leader  Sr.  | owledge that I have been briefed on the results of this cition and will take corrective actions (if necessary).  UXO Supervisor/Project Manager |



| Date: 26 Frb 97 Time: 0900 (  | Contract Number:  |
|---|---|
| Delivery Order Number:7206.002  | Location: Co Croft  |
| Personnel Involved: 150 Stock 150   |   |
| ا. Work Plan Reference: عدد المرابعة ا |   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいみ サ 34  |   |
| III. QCI Results:   |   |
|   |   |
| IV. Corrective Actions Recommended (to include co   | introls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC/Team Leader  | Sr. UXO Supervisor/Project Manager  |



| Date: 26 Fck 97 Time: 0900 Contract Number:   | · <del></del>                                |
|---|--|
| Delivery Order Number: 7206,002 Location: Co. CroC+   |  |
| Personnel Involved: J. Ostics J. Fectis   |  |
| I. Work Plan Reference: Section 4   |  |
|   |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; or description) | coordinates                                  |
|   |  |
|   |  |
|   |  |
| III. QCI Results:   |  |
| - 2 Hits Small Freg   |  |
|   | <del></del>                                  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence)                    | :  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures:    acknowledge that I have been briefed inspection and will take corrective action | on the results of this<br>ha (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Proje  | ct Manager                                   |
|   | 17151114901                                  |

#### ₩



## Quality Conformance Inspection (QCI) Record

| Date: <u>26 두리 키기</u> Time: <u>69주</u>  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.662   | Location: Co Croft  |
| Personnel Involved: <u>J. Oshacue</u> <u>J. F</u>                                   | erris   |
| I. Work Plan Reference: _ Scatica ये  |   |
| II. Activity Inspected/Reinspected: (List by task; g<br>or description) らいん は の 3 し | rid number and assigned team; coordinates   |
| III. QCI Results: 5at  3 Hits Small Frag  |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                      | controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | l acknowledge that I have been brisfed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 26 Fcb 97 Time: 8966 Contra   | ct Number:  |
|---|---|
| Delivery Order Number:Location  | on: Co Cosfit   |
| Personnel Involved: 1. Dstorm 1. Ferris   |   |
| I. Work Plan Reference:হেন্ডে ১   |   |
| II. Activity Inspected/Reinspected: (List by task; grid numb<br>or description) (公司) 立 (35) | er and assigned team; coordinates                       |
| III. QCI Results: Sat   |   |
| 3 Hitz Small Fra  | 3   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include controls                                     | to prevent recurrence):                                 |
|   |   |
|   |   |
| V. Signatures:  | owledge that I have been briefed on the results of this |
|   | ction and will take corrective actions (if necessary).  |
| QCI Feam Leader Sr.   | UXÓ Supervisor/Project Manager                          |



| Date: 26 Fcb 97 Time: 0900 Contract Number:  |
|--|
| Delivery Order Number: 7204.002 Location: Cp Ccc Cd  |
| Personnel Involved: J.Oskora, J. Ferris  |
| I. Work Plan Reference: Section 4  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいる 中 38 (こう)              |
| III. QCI Results: Sat  |
| la Lits, Small Frag  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
|  |
| V. Signatures:  I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. JXO Supervisor/Project Manager   |



UXB Form 95-1.0020

### Quality Conformance Inspection (QCI) Record

| Date: 26 Fcb 97 Time: 6960 Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: Cp CceCd  |
| Personnel involved: J. Osker J. Ferris  |
| I. Work Plan Reference: ১০০০ ব  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description). 스크스 크 (스크스                 |
| III. QCI Results:   |
| 15 Hits Small Free  |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC! Team Leader Sr./UXO Supervisor/Project Manager  |



| Date: <u>১৬ ৮০: ৭৭</u> Time: <u>১৭০০</u> C   | ontract Number:   |
|--|---|
| Delivery Order Number: <u>72೦७, ೦೦೭</u> Lo   | ocation: Cp Creft   |
| Personnel Involved: 1.0 sbocm, 1. Fccc   | .5  |
| I. Work Plan Reference: _ ടെപ്പെ 니   |   |
| II. Activity Inspected/Reinspected: (List by task; grid roor description) らららせ 40 Centre | number and assigned team; coordinates                         |
| III. QCI Results: Sal  |   |
| 2 Hits Snell Frag  |   |
|  |   |
| IV. Corrective Actions Recommended (to include con                                       | trois to prevent recurrence):                                 |
|  |   |
|  |   |
|  |   |
|  |   |
| V Simple   | I acknowledge that I have been briefed on the results of this |
| V. Signatures:   | inspection and will take corrective actions (if necessary).   |
| QC1 Team Leader  | Sr. UXO Supervisor/Project Manager                            |



| Date: 26 Feb 97 Time: 0900   | Contract Number:  |  |
|--|---|--|
| Delivery Order Number: <u>ಇ೩೦೬, ೦೬೨</u>                            | Location: Co CsaCd  |  |
| Personnel Involved:  | <b>,</b>  |  |
|  |   |  |
| I. Work Plan Reference: Scotian 4                                  |   |  |
| II. Activity Inspected/Reinspected: (List by task; or description) |   |  |
| III. QCI Results:  |   |  |
|  |   |  |
| 2 Hits Small Frag  | 2 Hits Small Frag   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):  |  |
|  | <del></del>   |  |
|  |   |  |
| _ <del></del>  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:   | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| A Columbia   | - Tomb  |  |
| QCLTeam Leader   | Sr. ゼXO Supervisor/Project Manager  |  |

42



## Quality Conformance Inspection (QCI) Record

| Date: <u>2/14/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: Charle CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -   |   |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; go or description)  GRID ## 42 SE | grid number and assigned team; coordinates  |
| III. QCI Results: SAT  2 IHITS SMALL FO  | eac.  |
| IV. Corrective Actions Recommended (to include                                       |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |



| Date: <u>2/14/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: CAMP CROFT OOU 6                                  |
| Personnel Involved: BILL PURSINO   | SIM TOMIKO  |
| I. Work Plan Reference: SECTION 4  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; goor description)  GRID # 41 NW | rid number and assigned team; coordinates                   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                                     | controls to prevent recurrence):                            |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | acknowledge that I have been briefed on the results of this |
| le Heraine   | inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager                          |

ifif



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: <u>3/14/97</u> Time:  Delivery Order Number: <u>7206.002</u> |   |
|--|---|
| Delivery Order Number: 7206.002                                    | 01.101.   |
|  | Location: Chur CROFT OOU 6                                    |
| Personnel involved: BILL AURSINO -                                 | IM TOMIKO   |
| I. Work Plan Reference: SECTION 4                                  |   |
| II. Activity Inspected/Reinspected: (List by task; grid            | d number and assigned team; coordinates                       |
| or description)  GRID # 44500                                      |   |
|  |   |
| III. QCI Results: Sat  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include co                  | ontrois to prevent recurrence):                               |
|  | ontrois to prevent recuttence).                               |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this |
|  | inspection and will take corrective actions (if necessary).   |
| a Flucius  | to the second   |

43



## Quality Conformance Inspection (QCI) Record

| Date: <u>2-14-97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING -   | IM TOMIKO   |
| I. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; grior description)  GRID # 43NE | id number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
| 6 HITS SMALL A   | FRAG-   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include c                                   | ontrols to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - WHENSUL  | Tombo   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |

46



#### Quality Conformance Inspection (QCI) Record

| Date: <u>2//6/97</u> Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   | Location: CHAIP CROFT OOU 6   |
| Personnel Involved: BILL AURSINO —  |   |
| I. Work Plan Reference: <u>SECTION</u> 4  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID ## 465W  III. QCI Results: SAT |   |
| IV. Corrective Actions Recommended (to include  | e controls to prevent recurrence):  |
|   |   |
| V. Signatures:  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |



#### Quality Conformance Inspection (QCI) Record

| / 1-   |   |
|--|---|
| Date: 2/10/97 Time:                          | Contract Number:  |
| Delivery Order Number: 7206.002              | Location: Charle CROFT 00U6                                   |
| Personnel involved: BILL AURSINO -           |   |
| I. Work Plan Reference: SECTION 4            |   |
|  |   |
|  | c; grid number and assigned team; coordinates                 |
| or description)  GRID # 455€                 |   |
|  |   |
|  |   |
| III. QCI Results: Sa 7                       |   |
| III. QCI Results:                            |   |
|  |   |
| 6-HITS Sm                                    | MAG   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to inclu | de controls to prevent recurrence):                           |
| <del></del>                                  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  | I acknowledge that I have been briefed on the results of this |
| V. Signatures:                               | inspection and will take corrective actions (if necessary).   |
|  |   |



#### Quality Conformance Inspection (QCI) Record

| Date: Time:   | Contract Number:   |
|---|--|
|   | Z Location: Charl CROFT OOU 6                                |
| Personnel Involved: BILL AURSINO  | - JIM TOMIKO   |
| I. Work Plan Reference: SECTION   | 4  |
|   |  |
| II. Activity Inspected/Reinspected: (List by a or description)  GRID ## 48 NO | task; grid number and assigned team; coordinates             |
|   |  |
|   |  |
| III. QCI Results: SAT   |  |
|   |  |
| 2- A13 8m   | FRAG-  |
|   |  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to in                                     | nclude controls to prevent recurrence):                      |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   | i acknowledge that I have been briefed on the results of thi |
| V. Signatures:  | inspection and will take corrective actions (if necessary).  |
| Music   |  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager                           |



| Date: 24 Fcb 97 Time: 1400 Contract Number:   |             |
|---|-------------|
| Delivery Order Number: 7206, 002 Location: Cp. CcoCt  |             |
| Personnel Involved: USkana U. Fernis  |             |
| I. Work Plan Reference: Scotic 4  |             |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinate or description) らいませ 47 Cenfer         | es<br>—     |
| III. QCI Results: Sat   |             |
| 9 Hits Small Frag   | _           |
|   | _           |
|   |             |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |             |
|   |             |
|   | _           |
|   | _           |
|   | _           |
| V. Signatures:    acknowledge that I have been briefed on the results of inspection and will take corrective actions (if necessary) | of this.    |
| QCI(Team Leader Sr. UXO Supervisor/Project Manage   | <del></del> |



#### Quality Conformance Inspection (QCI) Record

| Date: 2/10/97 Time:   | Contract Number:   |
|---|--|
| Delivery Order Number: 7206.002   | Location: CHAP CROFT OOU 6   |
| Personnel Involved: BILL AURSINO -  | - Jun Tomiko   |
| I. Work Plan Reference: SECTION 4   |  |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # 50 NE | k; grid number and assigned team; coordinates  |
| III. QCi Results: SAT  1 - Hit Sm FRM   | A&   |
| IV. Corrective Actions Recommended (to inclu                                    | de controls to prevent recurrence):  |
|   |  |
|   |  |
| V. Signatures:  | I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager   |



#### Quality Conformance Inspection (QCI) Record

| / /  |   |
|--|---|
| Date:  | Contract Number:  |
| Delivery Order Number: 7206.002                      | Location: Charl CROFT OOU 6   |
| Personnel involved: BILL AURSINO -                   |   |
|  |   |
| I. Work Plan Reference:                              |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; § | grid number and assigned team; coordinates  |
| or description)  GRID # 49 5W                        | <del></del>   |
| GRIV #= 7 / 500                                      |   |
|  |   |
|  |   |
| III. QCI Results: SAT                                |   |
|  |   |
| 1- Het Sin FAM                                       | <u> </u>  |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include       | controls to prevent recurrence):  |
| TV. Dollective Actions recommended to more           |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                                       | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| W Heroin   | Tolo  |
| QØ1 Team Leader                                      | Sr. XXO Supervisor/Project Manager  |



UXB Form 95-1:0020

#### Quality Conformance Inspection (QCI) Record

| Date:   | act Number:  |
|---|--|
| Delivery Order Number: 7206.002 Locat                       |  |
| Personnel Involved: BILL PURSING - JIM                      | Tomiko   |
| I. Work Plan Reference: SECTION 4                           |  |
| II. Activity Inspected/Reinspected: (List by task; grid num | ber and assigned team; coordinates   |
| or description)<br>GRID # 52 SW                             |  |
|   |  |
| III. QCI Results: SAT                                       |  |
|   |  |
| 2-HITS Som FRAG   |  |
|   |  |
| IV. Corrective Actions Recommended (to include controls     | to prevent recurrence):  |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures:  | knowledge that I have been briefed on the results of this section and will take corrective actions (if necessary). |
| - M. Husin  | Took   |
| QCI Team Leader Sr  | . UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   | Location: Charl CROFT 00116   |
| Personnel Involved: BILL AURSINO  | - Jun Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by tail or description)  GRID # 51 CT | sk; grid number and assigned team; coordinates  |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to inci                                     | ude controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
| V. Signatures   | I acknowledge that I have been bristed on the results of this inspection and will take corrective actions (if necessary). |
| WHILISIN  |   |



#### Quality Conformance Inspection (QCI) Record

| Delivery Order Number: 7206, 002 Location: CMM CROFT COULD Personnel Involved: But Aursino — Jun Townko  Work Plan Reference: Section 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 54 NE  III. QCI Results: SAT  4 Hrits 5m Flats  IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |  |   |
|--|--|---|
| Personnel Involved: BILL FURSING — Jul TOMIKO  Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID ## 54 NE  III. QCI Results: SAT  4 HITS SM FURS  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I addressedge that I have been bristed on the results of this temperature will table corrective actions (if recessary).  W. H. H. H. H. H. H. H. H. H. H. H. H. H.  | Date: 2/10/97 Time:                            | Contract Number:  |
| Personnel Involved: Brill Fulls IND — Jun Townko  Work Plan Reference: Section 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 54 NE  II. QCI Results: SAT  4 Hrts Sm Flats  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I addrovisedge that I have been briefed on the results of this respection and will take corrective actions (if recessary).  W. Hilliams   | Delivery Order Number: 7206.002                | — — — — — — — — — — — — — — — — — — —                       |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 54 NE  III. QCI Results:  4 H775 See FRAGE  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I addressed that I have been brefed on the results of this inspection and will take corrective actions (if necessary).  W. Hywww.   | Personnel Involved: BILL PURSING -             | - Jun Tomiko  |
| Or description)  GRID # 54 NE  III. QCI Results: SAT  W. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  W. Humin  | I. Work Plan Reference: SECTION 4              |   |
| Or description)  GRID # 54 NE  III. QCI Results: SAT  W. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  W. Humin  |  |   |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   | or description)                                | ; grid number and assigned team; coordinates                |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   |  |   |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   | III 001 Danita                                 |   |
| V. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  U. Signatures: | III. QCI Hesuits:                              |   |
| V. Signatures:    Acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  | 4 Hits Sm F                                    | RAG   |
| V. Signatures:    Acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |  |   |
| V. Signatures:    Acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |  |   |
| V. Signatures:    Acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |  |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   | IV. Corrective Actions Recommended (to include | de controls to prevent recurrence):                         |
| V. Signatures: inspection and will take corrective actions (if necessary).   |  |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   |  |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   |  |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   |  |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   |  |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   |  | acknowledge that I have been briefed on the marks of this   |
| <del></del>  | V. Signatures:                                 | inspection and will take corrective actions (if necessary). |
|  |  | Sr. UXO Supervisor/Project Manager                          |



| Date: 24 Fet 97 Time: 1400 C  | Contract Number:  |
|---|---|
| Delivery Order Number: L  | ocation: Cp. Croft  |
| Personnel Involved: U. Osbara J. Ferr   | 165   |
| I. Work Plan Reference:   | _ L/  |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description) らっぱせ 53 Ccっぱっ |   |
|   |   |
|   |   |
| III. QCI Results: Set   |   |
| 411.  | <u>a</u>  |
| - A MITS Small Tra  | 3   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include cor                                    | ntrols to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader   | Sr. UXO Supervisor/Project Manager  |
|   |   |



| Date: <u>של הכל אם</u> Time: <u>וערט</u>                           | Contract Number:  |
|--|---|
| Delivery Order Number: _ <u> </u>                                  | Location: Cp. Cccf+   |
| Personnel Involved:  | Feccis  |
| I. Work Plan Reference: Section 2/                                 |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates  |
| III. QCI Results: Ja, Sat  |   |
| 4 Hits S   | nell Frag   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCLTeam Leader   | Sr. UXO Supervisor/Project Manager  |



| Date: 24 Fct 97 Time: 1460 Contract Number:   |
|---|
| Delivery Order Number: 7266,662 Location: Co. Co. Ft  |
| Personnel Involved: J. Ds. Econol. J. Ferris  |
| I. Work Plan Reference: Section 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)   |
| III. QCI Results: Sat  2 Hits Small Foag  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  QCLTeam Leader  Sr. UXO Supervisor/Project Manager |



UXB Form 95-1:0020

#### Quality Conformance Inspection (QCI) Record

|  | _                           |
|--|-----------------------------|
| Date: Time: Contract Number:   | i                           |
| Delivery Order Number: 7206.002 Location: CAMP CROFT 00  | 16                          |
| Personnel Involved: BILL FURSING - SIM TOMIKO  | <del></del>                 |
| I. Work Plan Reference: <u>SECTION 4</u>   |                             |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coor or description)  GRID # 58 SW | dinates                     |
| III. QCI Results: SAT  |                             |
| SMALL FRAG   |                             |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):                                      |                             |
|  |                             |
|  | ~                           |
| V. Signatures:  I acknowledge that I have been briefed on the inspection and will take corrective actions (if ne     | reults of this<br>cessery). |
| - W Weeren   |                             |
|  |                             |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING -   | - JIM TOMIKO  |
| I. Work Plan Reference:  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 57 SE | grid number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
| Small filts  |   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI feam Leader  | Sr. UXO Supervisor/Project Manager  |
|  | · · · · · · · · · · · · · · · · · · ·   |





| Date: 1/29/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSINO -  | - JIM TOMIKO  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 60 CTM |   |
| III. QCI Results: SAT   |   |
| SMALL FRA   |   |
| IV. Corrective Actions Recommended (to include                                    | de controls to prevent recurrence):   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - // /////////// QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: Contract Number:   |  |
|--|--|
| Delivery Order Number: 7206.002 Location: CHAP CROFI   | <u> 0006</u>   |
| Personnel Involved: BILL PURSING - JIM TOMIKO  |  |
| 1. Work Plan Reference: SECTION 4  |  |
|  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned te or description) | am; coordinates                                      |
| GRID# 59 NW  |  |
|  |  |
|  |  |
| III. QCI Results: SAT  |  |
|  |  |
|  |  |
|  |  |
| SMALL FRAG   |  |
|  |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):                |  |
|  |  |
|  |  |
|  |  |
|  | <del></del>  |
|  |  |
| V. Signatures:  I acknowledge that I have been by inspection and will take corrective          | ieled on the results of this actions (if necessary). |
| M. Hursin To-6   |  |
| QCI/Team Leader Sr. UXO Supervisor/Pr  | oject Manager  |



UXB International, Inc.

| Date: _//29/97  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -  | Jul Tomiko  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 625€ | grid number and assigned team; coordinates  |
| III. QCI Results: 547   |   |
|   |   |
| SHAU FRAG   |   |
| IV. Corrective Actions Recommended (to include WA                               | e controls to prevent recurrence):  |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020



UXB International, Inc.

| Date: 26 Feb 97 Time: 0900  | Contract Number:  |
|---|---|
| Delivery Order Number: <u>72೦७, ೦೦೭</u>   | Location: Cp Creft  |
| Personnel involved: J.Ostcom J.F  |   |
| I. Work Plan Reference:   |   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいさせ にし こっぱって |   |
| III. QCI Results:   |   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020



| Date: 25 Fcb 97 Time: 1400 Contract Number:   |  |  |
|---|--|--|
| Delivery Order Number: 7206,002 Location: Cp Cosft  |  |  |
| Personnel Involved:   |  |  |
| I. Work Plan Reference: Section 4   |  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                             |  |  |
| III. QCI Results: Sat  28 Digs Entire grid heavily entaminated with small Free.   |  |  |
|   |  |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |  |  |
|   |  |  |
|   |  |  |
| V. Signatures:  I acknowledge that i have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |  |
| QCLTeam Leader Sr. UXO Supervisor/Project Manager   |  |  |



| Date: 26 Fet 97 Time: 0900 Co  | ontract Number:   |
|--|---|
| Delivery Order Number: 7206.002 Lo   | ocation: Co Ccoft   |
| Personnel Involved: 1, Ostocne, J. Fers  | 5.5   |
| I. Work Plan Reference: Section U  |   |
| II. Activity Inspected/Reinspected: (List by task; grid no or description) (ここの は しろ Cェールに | umber and assigned team; coordinates  |
| III. QCI Results: Sat  |   |
| IV. Corrective Actions Recommended (to include cont  | rols to prevent recurrence):  |
| V. Signatures:  QCI/Team Leader  | I acknowledge that I have been brisfed on the results of this inspection and will take corrective actions (if necessary).  Sr. UXO Supervisor/Project Manager |



| Date: <u>/- 23- 97</u> Time: Co  | ntract Number:  |
|--|---|
| Delivery Order Number: 7206.002 Lo   |   |
| Personnel Involved: BILL AURSING - JIM   | 1 Toruko  |
| i. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; grid not or description)  GRID # 66NW | umber and assigned team; coordinates  |
| III. QCI Results: SATIS FACTORY  |   |
| 3EA 1" X 5" FRAG   |   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):          |   |
|  |   |
|  |   |
|  |   |
| v. Signatures:   | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
|  | Sr. UXO Supervisor/Project Manager  |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



| Date: 1-23-97 Time: Contract Number:  |  |  |
|---|--|--|
| Delivery Order Number: 7206.002 Location: CANA CROFT 00U6   |  |  |
| Personnel Involved: BILL PURSINO - SIM TOMIKO   |  |  |
| I. Work Plan Reference: SECTION 4   |  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 65 CENTER           |  |  |
| III. QCI Results: SATIS FACTORY   |  |  |
|   |  |  |
|   |  |  |
| ZEA SMALL FRAG  |  |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |  |  |
|   |  |  |
|   |  |  |
|   |  |  |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |  |
| QC! Team Leader Sr. UXO Supervisor/Project Manager  |  |  |



| Date: 1/23/47 Time: _   | Contract Number:  |
|---|---|
|   | . OOZ Location: CAMP CROFT OOU 6                              |
| Personnel Involved: BILL Pul                                    | SINO - SIM TOMIKO   |
| I. Work Plan Reference:   | 10N 4   |
| II. Activity Inspected/Reinspected: (Learn description)  GRID#6 | ist by task; grid number and assigned team; coordinates       |
| III. QCI Results: SATISFAC TO                                   | ey  |
|   | d (to include controls to prevent recurrence):                |
| D/A   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this |
| 12/   | inspection and will take corrective actions (if necessary),   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager                            |
|   |   |



UXB Form 95-1-0020

#### Quality Conformance Inspection (QCI) Record

| Date: Time: Contract Number:  |  |  |
|---|--|--|
| Delivery Order Number: 7206.002 Location: Charl CROFT 00U6  |  |  |
| Personnel Involved: BILL PURSING - JIM TOMIKO   |  |  |
| I. Work Plan Reference: SECTION 4   |  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 67 任めで              |  |  |
| III. QCI Results: SA-77.SFACTORY  |  |  |
| lea Small FRAG  |  |  |
|   |  |  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |  |  |
|   |  |  |
|   |  |  |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |  |
| QZI Team Leader Sr. XXO Supervisor/Project Manager  |  |  |



| )   |   |
|---|---|
| Date: <u>1-14-97</u> Time:  |   |
|   | Location: Chul Cloff 00U6   |
| Personnel Involved: BILL AURSINO  | - Jul Tomiko  |
| I. Work Plan Reference: S€CT76N 4   | 4   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) |   |
| GRID # 70 SE  |   |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
| III. QCI Results.   | <u> </u>  |
|   |   |
| 1 HIT SMALL FRAG  |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):                               |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - U Winsqu  | Into  |
| QCI Team Leader   | Sr. どXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: <u>3/14/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL PURSING -   | Sim Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID # 695w | nrid number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
| 3 HITS SMALL FR  | CA6   |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Hursen  | Tools   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: <u>2-14-97</u> Time:   |   |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSING -   | - Jul Tomiko  |
|  |   |
| I. Work Plan Reference: <u>S€CT70N 4</u>   |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID ## 72 NW | k; grid number and assigned team; coordinates                 |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
| 1 Hot Small FR   | 16  |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to inclu                                     | de controls to prevent recurrence):                           |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  | I acknowledge that I have been briefed on the results of this |
| V. Signatures:   | inspection and will take corrective actions (if necessary).   |
| . M. Krusin  |   |
| ÁCI Team Leader_   | Sr. UXO Supervisor/Project Manager                            |



| Date: _2-14-97   | ract Number:   |
|--|--|
| Delivery Order Number: 7206.002 Loca   | tion: CAMP CROFT OOU 6   |
| Personnel Involved: BILL PURSING - SIM   | Tomiko   |
| I. Work Plan Reference: <u>SECTION</u> 4   |  |
| II. Activity Inspected/Reinspected: (List by task; grid numor description)  GRID # 71 ルモ | ber and assigned team; coordinates   |
| III. QCI Results: SAT  |  |
| 2 HITS SMALL FRAG  |  |
| IV. Corrective Actions Recommended (to include controls                                  | s to prevent recurrence):  |
|  |  |
| v. Signatures.   | knowledge that I have been briefed on the results of this lection and will take corrective actions (if necessary). |
| QCI Yearn Leader Sr  | UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                                    | Location: Charl CROFT OOU 6   |
| Personnel Involved: BILL PURSING -                                 | SIM TOMIKO  |
| I. Work Plan Reference: SECTION 4                                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates  |
| GRID# 76 NW  |   |
|  |   |
|  |   |
| III. QCI Results:  |   |
|  |   |
| ·  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - M Hersin   | - To-le   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



| Date: <u>2/19/97</u> Time:                                      | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002                                 |   |
| Personnel Involved: BILL PURSING                                | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4                               |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by ta or description) | sk; grid number and assigned team; coordinates  |
| GRID# 13 SE   |   |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
|   |   |
| 1 Het Small   | FRAG  |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to inc                      | lude controls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| . Musice  | 170-ls  |
| QCI Team Leader   | Sr/UXO Supervisor/Project Manager   |

18 NW



#### Quality Conformance Inspection (QCI) Record

| Date: <u>2/19/97</u> Time:   | Contract Number:   |
|--|--|
| Delivery Order Number: 7206.002                                    | Location: Charl CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -                                 | Jun Tomiko   |
|  |  |
| I. Work Plan Reference: <u>S€CT76N 4</u>                           |  |
|  |  |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates   |
| GRID# 78NW   |  |
|  |  |
|  |  |
| W 001D   |  |
| III. QCI Results: SAT  |  |
|  |  |
| 1 HT SMALL FO  | RAG  |
|  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):   |
|  |  |
|  |  |
|  |  |
|  |  |
| •  |  |
|  |  |
| V. Signatures:   | I acknowledge that I have been briefled on the results of this inspection and will take corrective actions (if necessary). |
| - WAlersin   | S-4140 S-10-10-10-10-10-10-10-10-10-10-10-10-10-   |
| QQI Team Leader  | St/UXO Supervisor/Project Manager  |

# IN THE PART OF THE

#### Quality Conformance Inspection (QCI) Record

| Date: 2//9/97 Time:                                |   |
|--|---|
| Delivery Order Number: 7206.002                    | Location: Chur Cloft 0046                                     |
| Personnel Involved: BILL AURSINO -                 |   |
| I. Work Plan Reference: 56CT16N 4                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; | grid number and assigned team; coordinates                    |
| or description)  GRID # 77 CTR                     |   |
|  |   |
|  |   |
|  |   |
| III. QCI Results: SAT                              |   |
|  |   |
|  |   |
|  |   |
|  |   |
| N/ Compating Actions Decomposed to include         |   |
| IV. Corrective Actions Recommended (to include     | e controls to prevent recurrence):                            |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                                     | I acknowledge that I have been briefed on the results of this |
| W. Hersin  | inepection and will take corrective actions (if necessary).   |
| QCI Team Leader                                    | Sr. UXO Supervisor/Project Manager                            |

80 NE



UXB Form 95-1,0020

#### Quality Conformance Inspection (QCI) Record

| Date: <u>9/19/97</u> Time:                        |   |
|---|---|
| Delivery Order Number: 7206.002                   | Location: CAMP CROFT OOU 6                                    |
| Personnel Involved: Bill Auksiko -                |   |
|   | CIPT 101-111-C  |
| I. Work Plan Reference: <u>SECTION 4</u>          |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task | k; grid number and assigned team; coordinates                 |
| or description)                                   |   |
| GRID# SO NE                                       |   |
|   |   |
|   |   |
| III. QCI Results: SAT                             |   |
|   |   |
|   |   |
| 1 HOT SMALL FA                                    | eac-  |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to inclu      | ide controls to prevent recurrence):                          |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:                                    | l acknowledge that I have been briefed on the results of this |
| 1. It Herry.                                      | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader                                   | Sr. UXO Supervisor/Project Manager                            |
|   |   |



| Date: 2/19/97 Time:                                  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                      | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -                   |   |
| Personnel involved:                                  | JIM TOMINO  |
| I. Work Plan Reference: SECTION 4                    |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; g | arid number and assigned team; coordinates  |
| or description)                                      |   |
| GRID# 79 NW  |   |
|  |   |
|  |   |
| (II) 001 Dec./II                                     |   |
| III. QCI Results: 54T                                | <del></del>   |
| 2 HITS SMALL I                                       | FRAC  |
|  | 7-77.6  |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include       | controls to prevent recurrence):  |
|  |   |
|  |   |
| <del></del>  |   |
|  |   |
|  |   |
|  | <del></del>   |
|  |   |
| V. Signatures:                                       | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| a Fransin  | 1-12-6  |
| QCI Team Leader                                      | SE UXO Supervisor/Project Manager   |
|  |   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 26 Feb 97 Time: 5950  | Contract Number:  |
|---|---|
|   |   |
| Delivery Order Number: 7206.002.  | 1   |
| Personnel Involved: U. Oskorze  | S. Ferris   |
| I. Work Plan Reference: Section 4   |   |
| II. Activity Inspected/Reinspected: (List by task or description) 生 之 (元) | k; grid number and assigned team; coordinates   |
| III. QCI Results: 5a+   |   |
| 2 hits , Small  | Frag  |
| <u> </u>  |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                            | de controls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been brisled on the results of this inspection and will take corrective actions (if necessary). |
| - Alba  | _ / To-6  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



| Date: 26 Feb 97 Time: 0900 Contract Number:   |
|---|
| Delivery Order Number: 77 Glo. CC2 Location: Co Ccc F   |
| Personnel Involved: U. Oskorne, U. Ferris   |
| I. Work Plan Reference: _ ടെല്റ്റെ 시  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                             |
| III. QCI Results:   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been bristed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 26 Fcb 97 Time: 0900 Contract Number:   |
|---|
| Delivery Order Number: 7206,002 Location: Cp CccFf  |
| Personnel Involved: U. Daboria, U. Ferris   |
|   |
| I. Work Plan Reference: School  |
|   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) (소리 보고 기 (기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 |
|   |
|   |
|   |
| III. QCI Results: Sat   |
|   |
| 18 hits Non-UXO/OEW trash, Fill material  |
| throughout grid   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures: Lacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).                     |
| 100   |
| QC\Team Leader Sr. UXO Supervisor/Project Manager   |



UXIS Form 96-1,0020

## Quality Conformance Inspection (QCI) Record

| Date: 26 Fck 97 Time: 6955 Contract Nu  | mber:   |
|---|---|
| Delivery Order Number: 7206.002 Location:   | Cp Croft  |
| Personnel Involved: J. Dsharne, J. Ferris   | ,<br>   |
| I. Work Plan Reference: Section 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid number an or description) | d assigned team; coordinates  |
| III. QCI Results: Set   |   |
| 4 hits, small Frag  |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include controls to pre                    | vent recurrence):   |
|   |   |
|   |   |
| V. Signatures:  | that i have been bristed on the results of this is will take corrective actions (if necessary). |
| QC Team Leader Sr. UXO  | Vol   |
| St. UXU   | Supervisor/Project Manager  |



| Date: 25 Feb 97 Time: 1400   | Contract Number:  |
|--|---|
| Delivery Order Number: 7200,002  | Location: Cp Ccoff  |
| Personnel Involved: 1. Osterne 1. F  | erris   |
| I. Work Plan Reference: Section 21   |   |
| II. Activity Inspected/Reinspected: (List by task; gr<br>or description) (つこよ *** マル |   |
| III. QCI Results: Sat  21 Digs Snall Fre   | 3   |
|  |   |
| IV. Corrective Actions Recommended (to include o                                     | controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefled on the meults of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



| Date: 25 Feb 97 Time: 1460 Contract Number:   |
|---|
| Delivery Order Number: 72 o.to. c.c.2 Location: Co. Csoft   |
| Personnel Involved: J. Osborne, J. Ferris   |
|   |
| I. Work Plan Reference:   |
|   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) ら…させ ちこ Cepもて               |
|   |
|   |
|   |
| III. QCI Results: 5at   |
|   |
| 23 Digs Small Frag  |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been bristed on the results of this inspection and will take corrective actions (if necessary). |
| A Coll  |
| QCI Team Leader Sr. UXO Supervisor/Project Manager  |





| Date: 15 Feb 97 Time: 1400 Contract Number:   |
|---|
| Delivery Order Number: 7200 002 Location: Cp. Cocht   |
| Personnel Involved: J. Oskor J. Fores   |
| I. Work Plan Reference: Section 4   |
|   |
| II. Activity inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) 乌克克士 思思                     |
|   |
|   |
| III. QCI Results: Sa+   |
| Q Digs  |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader Sr. UXO Supervisor/Project Manager  |



| Date: בַב רְּבְּנַ אַרַ Time: וַיִּלְכָה Contract Number:  |
|--|
| Delivery Order Number: 72010,002 Location: Co. CccC+   |
| Personnel Involved: 1. Osbace 1. Feess   |
| I. Work Plan Reference: Section 4  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいままって   |
| III. QCI Results: Sat  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
| V. Signatures:    Acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).    OOLTeam Leader   Sr. UXO Supervisor/Project Manager |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 12 168 47 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSINO -   | Jul Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 90 NW | grid number and assigned team; coordinates  |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
| 5 ATS SMALL  | 1 CON   |
| S ANS ZANNOE   | - TANG  |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| ·  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - M Hersin   | 10 Kg   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



179 Form 95-1.0020

# Quality Conformance Inspection (QCI) Recor

| Delivery Order Number: 7206.002 Location: Charl Cloft OOU 6  Personnel Involved: BILL AURSINO — JIM TOMIKO  I. Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 89 CTR  III. QCI Results: SFT |
|--|
| II. Work Plan Reference: SECTION 4  III. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 89 CTR  III. QCI Results: SFT   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 89 CTR  III. QCI Results: SAT  |
| or description)  GRID # 89 GR  III. QCI Results: 547   |
|  |
| 2 HITS SMALL FRAG  |
|  |
|  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
|  |
|  |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |
| QCI Team Leader Sr. UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 17 16897 Time: Contract Number:  |
|--|
| Delivery Order Number: 7206.002 Location: Chur Cloff 0006  |
| Personnel Involved: BILL FURSINO - JIM TOMIKO  |
| I. Work Plan Reference: SECTION 4  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 92 NW              |
| III. QCI Results: SAT  |
| 9 Hits SMALL FARG  |
|  |
|  |
|  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
|  |
|  |
|  |
| V. Signatures:  I admowledge that I have been brisled on the results of this inspection end will take corrective actions (if necessary). |
| QC/ Team Leader Sr. XXO Supervisor/Project Manager   |



| Date: 17 168 97 Time: Contract N   | lumber:  |
|--|--|
| Delivery Order Number: 7206.002 Location:  |  |
| Personnel Involved: BILL PURSING - SIM TO  | uiko   |
| I. Work Plan Reference: <u>SECTION</u> 4   |  |
| II. Activity Inspected/Reinspected: (List by task; grid number a or description)  GRID # 9/ NE   | and assigned team; coordinates   |
| III. QCI Results: SAT  |  |
| 4 HITS SMALL FRAG & M  | MB KACK-S  |
| IV. Corrective Actions Recommended (to include controls to p   | revent recurrence):  |
|  |  |
|  |  |
|  |  |
|  |  |
| V. Signatures:   | ige that I have been briefed on the results of this and will take corrective actions (if necessary). |
| V. Signatures: I acknowled inspection of the structure of | ige that I have been briefed on the results of this and will take corrective actions (if necessary). |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 12 Ht 8 97 Time: Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: Chur Cloft 0006   |
| Personnel Involved: BILL PURSING - JUN TOMIKO   |
| Personnel Involved:   |
| 1. Work Plan Reference: <u>Section 4</u>  |
|   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinate or description)  GRID # 94 NE  III. QCI Results: SAT   |
| D HITS SMALL FRAG   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if recessary).  - What was the corrective actions (if recessary). |



| 71 4 3 42 Times Contract Number   |  |
|---|--|
| Date: 12 FEB 97 Time: Contract Number:  |  |
| Delivery Order Number: 7206.002 Location: Chur Cla  | 1FT 00U6   |
| Personnel Involved: BILL PURSING - SIM TOMIKO   |  |
| I. Work Plan Reference: <u>SECTION 4</u>  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned or description)  GRID # 93 SW | i team; coordinates  |
|   |  |
| III. QCI Results: SAT   |  |
|   |  |
| 2 HITS SMALL FRAG   | <del></del>  |
| THIS SMALL PLAG   | <del></del>  |
|   |  |
|   | <del></del>  |
|   |  |
| IV. Corrective Actions Recommended (to include controls to prevent recur                                  | rence):  |
|   |  |
|   |  |
|   |  |
|   |  |
|   | <del></del>  |
|   | <del></del>  |
| •   |  |
| V. Signatures:  I admowledge that I have been inspection and will take correct                            | in briefed on the reaults of this tive actions (if necessary). |
| W Hursin  | S  |
| QC/ Team Leader Sr. EXO Supervisor  | /Project Manager   |



UXB International, Inc.

| Date: 2/20/97              | Time:               | Contract Number:  |
|----------------------------|---------------------|---|
|                            | _                   | Location: CAMP CROFT OOU 6  |
| Personnel involved:        | ICC fursino -       | Jun Tomiko  |
| I. Work Plan Reference:    | SECTION 4           |   |
|                            |                     |   |
| or description)            |                     | grid number and assigned team; coordinates  |
| GRID                       | # 475W              |   |
|                            |                     |   |
|                            |                     |   |
| III. QCI Results: 5A       | iT                  |   |
|                            |                     |   |
|                            |                     |   |
|                            |                     |   |
|                            |                     |   |
| IV. Corrective Actions Rec | ommended (to includ | e controls to prevent recurrence):  |
|                            |                     |   |
|                            |                     |   |
|                            |                     |   |
|                            |                     |   |
|                            |                     |   |
| V. Signatures:             |                     | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - Le Hussia                |                     | 10-16   |
| QC! Team Leader            |                     | Sr. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020



LDG Form 95-1.0020

# Quality Conformance Inspection (QCI) Recon

| Date: 13 163 97 Time:  | Contract Number:  |
|--|---|
|  |   |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL FULSING -   | lan Tomiko  |
| i. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # 95 CTR | d number and assigned team; coordinates   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  | <del></del>   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include c                                       | ontrols to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
|  |   |
|  | <del></del>   |
| •  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - la Hursins   | - To-6  |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |





UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date:                      | Time:                    | Contract Number:  |
|----------------------------|--------------------------|---|
|                            |                          | Location: Charl CROFT OOU 6   |
| Personnel Involved:        | ufursino -               | JIM TOMIKO  |
| I. Work Plan Reference:    | SECTION 4                |   |
| or description)            | pected: (List by task; g | rid number and assigned team; coordinates   |
| III. QCI Results:          | AT                       |   |
|                            |                          |   |
|                            |                          |   |
|                            |                          |   |
| IV. Corrective Actions Rec | ommended (to include     | controls to prevent recurrence):  |
|                            |                          |   |
| V. Signatures:             |                          | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCi Team Leader            |                          | Sr. UXO Supervisor/Project Manager  |



| Date: 2/30/97 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: CAMP CROFT COULS  |
| Personnel Involved: BILL PURSING   | — · ·   |
| Personnel Involved:  | - Jim Tomire  |
| I. Work Plan Reference: _ SECTION 4  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID # 98 NE | k; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
|  |   |
| IV. Corrective Actions Recommended (to inclu                                   | ude controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
|  | · · · · · · · · · · · · · · · · · · ·   |
| le Hersen  |   |



| Date: 2/2c/97 Time:                          | Contract Number:   |
|--|--|
| — <del>- 7</del>                             | 002 Location: CAMP CROFT 00U6  |
|  |  |
| Personnel Involved: Bill Puls                | INO - JIM TOMIKO   |
| I. Work Plan Reference:                      | in 4   |
|  |  |
| (I. Anti-time Innovation of Community (I. In |  |
| or description)                              | st by task; grid number and assigned team; coordinates   |
| GRID# 10                                     | 1 Sw   |
|  |  |
|  |  |
|  |  |
| III. QCI Results: SAT                        |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended           | (to include controls to prevent recurrence):   |
|  |  |
|  |  |
| <del></del>                                  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| V. Signatures:                               | i acknowledge that i have been briefed on the results of the inspection and will take corrective actions (if necessary). |
| li Husiu                                     |  |
|  |  |



| <del></del>   |                 | Contract Number:  |
|---|-----------------|---|
|   |                 | Location: CHAIF CROFT OOU 6   |
| Personnel Involved: BILL 1                                  | PURSINO -       | - Sun Tomiko  |
| . Work Plan Reference:                                      | ECTION 4        |   |
| II. Activity Inspected/Reinspecte or description)    ERID # |                 | k; grid number and assigned team; coordinate  |
|   | 700 04          |   |
|   |                 |   |
| II. QCI Results: SAT  |                 |   |
|   |                 |   |
|   |                 |   |
|   |                 |   |
| <u></u>   |                 |   |
|   |                 |   |
| V. Corrective Actions Recomme                               | ended (to inclu | de controls to prevent recurrence):   |
|   |                 |   |
|   |                 |   |
|   |                 |   |
|   |                 |   |
|   |                 |   |
|   |                 |   |
| /. Signatures:  |                 | I acknowledge that I have been briefed on the results of inspection and will take corrective actions (if necessary) |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>7/30/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO -   | Sum Tomiko  |
| I. Work Plan Reference:  |   |
| II. Activity Inspected/Reinspected: (List by task; gr<br>or description)<br>GRID # 103 CTR | id number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include c   | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - Marsina  | - Took  |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



| Date: 2/20/97 Time:                                | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                    | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -                 |   |
|  |   |
| I. Work Plan Reference:                            | <del></del>   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; | grid number and assigned team; coordinates  |
| or description)  GRID# 102 NW                      | ·   |
|  |   |
|  |   |
|  |   |
| III. QCI Results: SAT                              |   |
|  |   |
|  |   |
|  | <del></del>   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include     | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  | ·   |
|  |   |
| V. Signatures:                                     | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 1 Auroin   | 1 pilo  |
| QCI Team Leader                                    | Sr. UXO Supervisor/Project Manager  |



## Quality Conformance Inspection (QCI) Record

| Date: Time: Contract Number:  |
|---|
|   |
| Delivery Order Number: 7206.002 Location: Charl Cloff 0016  |
| Personnel Involved: BILL PURSING - JIM TOMIKO   |
| 1. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # /05 ルモ              |
| III. QCI Results: SAT   |
| 2 HITS SMALL FORAG  |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| Marsin Tools  |
| QCI Team Leader Sr/UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Recog

| Personnel Involved: BILL AURSINO -  | - Jul Tomiko   |
|---|--|
| Personnel Involved:   | - Juli Torin-o   |
| I. Work Plan Reference: 56070N 4  |  |
|   |  |
| II. Activity Inspected/Reinspected: (List by task   | · arid number and assigned team; coordinates                 |
| or description)   |  |
| GRID# 1045W   |  |
|   |  |
|   |  |
|   |  |
| III. QCI Results: <u>SAT</u>  |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   | )  |
|   |  |
| IV Corrective Actions Recommended (to include   | te controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | de controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | de controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | ie controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | de controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | de controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | de controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include  | de controls to prevent recurrence):                          |
| IV. Corrective Actions Recommended (to include the control of the | Lacknowledge that I have been briefed on the results of this |
|   |  |



| A (14)   |   |
|--|---|
| Date: <u>2-/4-97</u> Time:   |   |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSING -   | - Sun Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # /と子 Sw | k; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  4 HITS SMALL F  | (na)  |
|  |   |
| IV. Corrective Actions Recommended (to inclu                                     | de controls to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 1 Museu  | - toke  |
| QCI/Team Leader  | Sr. XXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| 7 1  |   |
|--|---|
| Date: <u>4/14/97</u> Time:   | Contract Number:  |
| Delivery Order Number: 7206.002  | Location: CHAP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -   | · ——  |
| I. Work Plan Reference: S€C.TION 4   |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID ## /06 SE | grid number and assigned team; coordinates  |
| GR10 44 700 SE   |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
| 7 HITS SMALL FRA   |   |
| THIS SIMPLE FIGH   |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to includ                                      | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Husia   | 170-16  |
| QC/Team Leader   | Sr XXO Supervisor/Project Manager   |



| Date: 26 Feb 97 Time: 1400   | Contract Number:  |
|--|---|
| Delivery Order Number: _7೭೬៤,ರಂ೭_  | Location: Cp CraC+  |
| Personnel Involved: <u>J. Osback, J. F</u>                                       | .ecc.(2   |
| I. Work Plan Reference: _ 도급하고 니   |   |
| II. Activity Inspected/Reinspected: (List by task<br>or description) ದಿನವಹ ಅಗ ೧೯ | k; grid number and assigned team; coordinates   |
|  |   |
| III. QCI Results:  |   |
| 3 Hits Small Frag  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to inclu                                     | ide controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| ACULT To be a sed of   | - 170 kg  |
| QCI Telam Leader   | Sr. ÚXO Supervisor/Project Manager  |



| Date: 2/19/97 Time:  | Contract Number:  |
|--|---|
|  |   |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING -   | Sun Tomiko  |
| i. Work Plan Reference: <u>SEC 776 N</u> 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grown or description)  GRID # /C8 CTR | rid number and assigned team; coordinates   |
|  |   |
| III. QCI Results: 5AT  | <del> </del>  |
|  |   |
| 3 HITS SMALL FR.   | AG  |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include of  | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| · · · · · · · · · · · · · · · · · · ·  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OC! Team Leader  | Sr. UXO Supervisor/Project Manager  |
| CILCI I BAIII LOAUGI   | 31. UNO Supervison Project Manager  |



| Date: 26 Fct. 97 Time: 1450 Co   | ntract Number:  |
|--|---|
| Delivery Order Number: <u>72ರಿಡಿ ಕಿರಿ</u> Lo   | cation: Cp. Creft   |
| Personnel Involved: <u>J. Oshar</u> , J. Farris  |   |
| I. Work Plan Reference: _ Section 시  |   |
| II. Activity Inspected/Reinspected: (List by task; grid not or description) Common the little Common terms of the little Common t |   |
| III. QCI Results: 5+   | acul trash area   |
| IV Corrective Actions Recommended (to include contr  | ols to prevent recurrence):   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |   |
|  |   |
| V. Signatures:   | acknowledge that I have been brisfed on the results of this respection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



| Date: 26 Feb 97 Time: 1460  | Contract Number:  |
|---|---|
| Delivery Order Number: _ 7266, cc2  | Location: Cp Creft  |
| Personnel Involved: J. Ostor~, J. Fr.   | <u></u>   |
| I. Work Plan Reference:   |   |
| II. Activity Inspected/Reinspected: (List by task; g or description) といみせ ロロ c.c. |   |
| III. QCi Results:   |   |
| 3 Hits small Fr   | <b>3</b>  |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | controls to prevent recurrence):                              |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this |
| A DI  | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader   | Sr. XXO Supervisor/Project Manager                            |



| 2/2 /22  |   |
|--|---|
| Date: <u>2/30/97</u> Time:   |   |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO   | Sim Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; g or description)  GRID # /2/5€ | rid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
| 1 HT MAGROCK   |   |
| IV. Corrective Actions Recommended (to include                                     | controls to prevent recurrence):  |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr. XXO Supervisor/Project Manager  |



| Date: 26 Fc6 97 Time: 1400  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206,002   | Location: Co Croft  |
| Personnel Involved: <u>J. Osločeke</u> , <u>J. Fec</u>                                    | r.<   |
| I. Work Plan Reference:   |   |
| II. Activity Inspected/Reinspected: (List by task; gr<br>or description) C: 3 to 112 C: 2 |   |
|   |   |
| III. QCI Results: Sat   |   |
| 10 Hits small Fda.  |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include a  | controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| ACH   | 1 Vo lo   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

| 0/2 /24  |   |
|--|---|
| Date: <u>2/20/97</u> Time:   | Contract Number:  |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING -   | SIM TOMIKO  |
| I. Work Plan Reference:  |   |
| II. Activity Inspected/Reinspected: (List by task; gror description)  GRID # 1245€ | rid number and assigned team; coordinates   |
| III. QCI Results: 5AT  |   |
| 1 Hor MAG Serl   |   |
|  |   |
| IV. Corrective Actions Recommended (to include o                                   | controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: <u>3/36/97</u> Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSINO -  | SIM TOMIKO  |
| i. Work Plan Reference: <u>SECTION 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 122 SE | grid number and assigned team; coordinates  |
| III. QCI Results: SAT   |   |
| 2 HITS SMALL FRAN   |   |
| IV. Corrective Actions Recommended (to include                                    | controls to prevent recurrence):  |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| . WALLISIU  | Tonke   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: 2/20/97 Time:  | Contract Number:  |  |
|--|---|--|
| · '  |   |  |
|  | Location: Charl CROFT OOU 6   |  |
| Personnel Involved: BILL PURSINO - JIM TOMIKO                                    |   |  |
| 1. Work Plan Reference: <u>SECTION</u> 4   |   |  |
|  |   |  |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID # 128 277 | k; grid number and assigned team; coordinates   |  |
|  |   |  |
| W OO! Doowley Sign   |   |  |
| III. QCI Results: SAT  |   |  |
|  |   |  |
| 1 Hot BOLT   |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| IV. Corrective Actions Recommended (to inclu                                     | ude controls to prevent recurrence):  |  |
|  | <u> </u>  |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| Musia  | - Voil  |  |
| QC: Team Leader  | Sr. どXO Supervisor/Project Manager  |  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| - 1/2 /01 -:  | O   |
|---|---|
| Date: <u>2/3c/97</u> Time:  | <u>.</u> .  |
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSINO -  | Sau Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by task; gr<br>or description)<br>GRID # 127 Sw | rid number and assigned team; coordinates   |
|   |   |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include of   | controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M. Hursin   | To to   |
| QCI Team Leader   | Sr.XXO Supervisor/Project Manager   |



| / /   |   |
|---|---|
| Date: 4/18/97 Time:   | Contract Number:  |
| Delivery Order Number: 7206.002   | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL PURSING  | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by ta<br>or description)<br>GRID # /36 Sw | sk; grid number and assigned team; coordinates  |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to inc  | lude controls to prevent recurrence):   |
|   |   |
|   |   |
| •   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M Hersen  | 21/02   |
| QCI Team Leader   | Sr. 🗚O Supervisor/Project Manager   |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: 2-11/17 Time:   | Contract Number:  |
|---|---|
| _   | OOZ Location: Charl CROFT OOU 6   |
| Personnel involved: Bicc fulls  | INO - JUM TOMIKO  |
| I. Work Plan Reference:   | sN 4  |
|   |   |
| II. Activity Inspected/Reinspected: (List or description)  GRID # 129 | st by task; grid number and assigned team; coordinates  |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV Corrective Actions Recommended                                     | (to include controls to prevent recurrence):  |
|   | to more common to prevent recurrence).  |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been brisled on the results of this inspection and will take corrective actions (if necessary). |
| Il Hersin   |   |
| QC/ Team Leader   | Sf. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020



| Date: Time:                          | Contract Number:  |
|--------------------------------------|---|
| Delivery Order Number: 7206.         | 002 Location: Chuf CROFT OOU 6  |
| Personnel Involved: Bicc fulls       | NO - JUM TOMIKO   |
|                                      |   |
| I. Work Plan Reference: SECT76       | <u>N 4                                   </u>   |
|                                      |   |
|                                      | t by task; grid number and assigned team; coordinates   |
| or description)  GRID # 132          | 2 5(4)  |
| GAIU #F 102                          |   |
|                                      |   |
|                                      |   |
| III. QCI Results: SAT                |   |
|                                      |   |
|                                      |   |
|                                      |   |
|                                      |   |
|                                      |   |
|                                      |   |
| IV. Corrective Actions Recommended ( | (to include controls to prevent recurrence):  |
|                                      |   |
|                                      |   |
|                                      | <del></del>   |
|                                      |   |
|                                      |   |
|                                      |   |
| V. Signatureşa                       | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| · W Hursino                          |   |
| QCI Team Leader                      | Sr. UXO Supervisor/Project Manager  |



| Date: 2/18/97 Time:                       | Contract Number:   |
|---|--|
| <del></del>                               | <del></del>  |
|   | Z Location: CHMP CROFT 00U6  |
| Personnel Involved: BILL AURSINO          | - Jul Tomiko   |
|   |  |
| i. Work Plan Reference:                   | 4-   |
|   |  |
| •   | task; grid number and assigned team; coordinates   |
| or description)  GRID # /3/ 3             | £  |
| GKID# 1318                                | <u>, c</u>   |
|   |  |
|   |  |
| III. QCI Results: SAT                     |  |
| III. QCI Hesuits:                         |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to in | nclude controls to prevent recurrence):  |
|   |  |
| <del></del>                               |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures:                            | I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary). |
| V. Signatures: - Williamsin               | I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary). |

:34



#### Quality Conformance Inspection (QCI) Record

| Date: <u>1/18/97</u> Time:  | Contract Number:  |
|---|---|
| 1   | · · · · · · · · · · · · · · · · · · ·   |
| Delivery Order Number: 7206.002   | Location: Charle CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -  | im Tomiko   |
| I. Work Plan Reference: <u>SECTION 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # /345w | d number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include or                                     | ontrols to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - W. Asersin  | 1 Took  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 2/18/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL FURSING - J.   | M TOMIKO  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID ## NW 133 N | ·   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include co   | ntrols to prevent recurrence):  |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: 1/20/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSING -  | SM TOMIKO   |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # /36 5€ | grid number and assigned team; coordinates  |
| II. QCI Results: SAT  |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | e controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
| /. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - M Musin   | - Tork  |
| QC! Team Leader   | Sr. UXO Supervisor/Project Manager  |



| Date: <u>9/18/97</u> Time:                | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.              | 00Z Location: CHAP CROFT 00U6   |
| Personnel Involved: Bill fulls            |   |
| Personnel Involved:                       | THE TOPHING   |
| I. Work Plan Reference: SECT76.           | N4  |
|   |   |
| II. Activity Inspected/Reinspected: (List | t by task; grid number and assigned team; coordinate:   |
| or description)                           |   |
| 6RID# 13                                  | 3NE   |
|   |   |
|   |   |
|   |   |
| III. QCI Results:                         |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended        | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended (      | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended (      | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended (      | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended (      | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended        | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended        | (to include controls to prevent recurrence):  |
| IV. Corrective Actions Recommended (      |   |
| V. Signatures:                            | I admoviedge that I have been briefed on the results of inspection and will take corrective actions (if necessary). |
|   | I acknowledge that I have been briefed on the regults of i  |



| / /                         |                                    |  |
|-----------------------------|------------------------------------|--|
| Date: 1/25/97               | Time:                              | Contract Number:   |
| Delivery Order Number:      | 7206.00Z                           | Location: CHAP CROFT OOU 6   |
| Personnel Involved: 310     |                                    |  |
| I. Work Plan Reference:     | SECTION 4                          |  |
| or description)             | ected: (List by task; g<br>生 /37んい | rid number and assigned team; coordinates  |
| III. QCI Results: 54.7      |                                    |  |
|                             |                                    |  |
|                             |                                    |  |
|                             |                                    |  |
| IV. Corrective Actions Reco | nmended (to include                | controls to prevent recurrence):   |
|                             |                                    |  |
|                             |                                    |  |
|                             | •                                  |  |
| V. Signatures:              |                                    | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |
| - M. Hursen                 |                                    | SALVO SUPERIOR DE LA CONTRACTOR DE LA CO |
| QCI Team Leader             |                                    | Sr. UXO Supervisor/Project Manager   |



- USD Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 1/23/97   |
|---|
| Delivery Order Number: 7206.002 Location: Charle Cloff 0006   |
| Personnel Involved: BILL PURSING - JUN TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
|   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID ## /385W              |
|   |
|   |
|   |
| III. QCI Results: SAT   |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - U Hursin  |
| QCI/Team Leader Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 1/23/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: <u>7206.002</u>  | Location: Chul CROFT 00U6   |
| Personnel Involved: BILL AURSINO -  | Jun Tomiko  |
| I. Work Plan Reference: <u>S€C 776 N</u> 4  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 139 NE | grid number and assigned team; coordinates  |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
|   |   |
| 1 SMALL PIECE FRAG  |   |
| IV. Corrective Actions Recommended (to include                                    | e controls to prevent recurrence):  |
| 7-7-1   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - / Husino QC/Team Leader   | Sr UXO Supervisor/Project Manager   |
| 207.0011.00001  | The Capatition of the Internage   |





| Date: 1/23/97                    | Time:                    | Contract Number:   |
|----------------------------------|--------------------------|--|
| Delivery Order Number            | 7206.00Z                 | Location: Charl CROFT 00U6   |
| ے<br>Personnel Involved:         | BILL PURSING             | - Jun Tomiko   |
| I. Work Plan Reference           |                          |  |
| 1. WORK HAIT HEIGHERICE          | . <u></u>                |  |
| II. A sain item In ann atan d'Pa | inopostody // ist by tas | k: and number and againsed teams according   |
| or description)                  |                          | k; grid number and assigned team; coordinates  |
| GRI                              | D# 140 Nu                | <u></u>  |
|                                  |                          |  |
|                                  |                          |  |
| III. QCI Results:                | <u> </u>                 |  |
| III. QOI Results.                | SAT                      | <del></del>  |
|                                  |                          |  |
|                                  |                          |  |
|                                  |                          |  |
| <u></u>                          |                          |  |
|                                  |                          |  |
| IV. Corrective Actions           | lecommended (to inclu    | ide controls to prevent recurrence):   |
|                                  |                          |  |
|                                  |                          |  |
| <del></del>                      |                          |  |
|                                  |                          |  |
|                                  |                          |  |
|                                  |                          |  |
|                                  |                          | I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary). |
| V. Signatures:                   |                          |  |
| V. Signatures:                   | <b>&gt;</b>              | - Lank   |



#### Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: <u>2/30/97</u> Time:               | Contract Number:   |
|--|--|
| ,  | 002 Location: Charl CROFT 00U6   |
| Personnel Involved: Bill Puls            |  |
|  |  |
| I. Work Plan Reference:                  | SN 4   |
|  |  |
| II. Activity Inspected/Reinspected: (Lis | st by task; grid number and assigned team; coordinates   |
| GRID# 14                                 | 15W  |
|  |  |
|  |  |
| III. QCI Results: SAT                    |  |
|  |  |
| 1 HIT SMA                                | ll FRAG  |
|  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended       | (to include controls to prevent recurrence):   |
|  |  |
|  |  |
|  |  |
|  |  |
|  | •  |
|  |  |
| V. Signatures:                           | I acknowledge that I have been briefled on the results of this inspection and will take corrective actions (if necessary). |
| - Marini                                 | ho   |

UXB Form 95-1.0020



| Date: <u>2/2c/97</u> Time: C                            | 'antenat Nicembar  |
|---|--|
| ' '   |  |
| Delivery Order Number: 7206.002 L                       | ocation: Chur CROFT OOU 6  |
| Personnel Involved: BILL AURSINO - JA                   | M TOMIKO   |
|   |  |
| I. Work Plan Reference:SECTION 4                        |  |
|   |  |
| II. Activity Inspected/Reinspected: (List by task; grid | number and assigned team; coordinates  |
| or description)   |  |
| GRID# 142 NE  | <del></del>  |
|   |  |
|   |  |
| III. QCI Results: SAT                                   |  |
| III. QCI Results: SAT                                   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to include cor      | itrols to prevent recurrence):   |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures:  | i acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary). |
| WHENSELL  | 17.1   |
| / · · · · · · · · · · · · · · · · · · ·                 |  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager   |



| Date: 26 Feb 97 Time: 1460 Contract Number:  |
|--|
| Delivery Order Number: <u>72ರ್ಡಿ ೧೯೭೭</u> Location: <u>೧೯೮೯</u>  |
| Personnel Involved: 1. Osterne, J. Forris  |
| I. Work Plan Reference: Scetic A 4   |
|  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                            |
|  |
|  |
|  |
| III. QCI Results:  |
| 6 Hits Small Frag  |
|  |
|  |
|  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
|  |
|  |
|  |
| V. Signatures:  I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Fearn Leader Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>1/2c/97</u> Time:  | Donatura de Missacha de   |  |
|---|---|--|
| · '   |   |  |
| Delivery Order Number: 7206.002   |   |  |
| Personnel Involved: BILL PURSING - JUN TOMIKO   |   |  |
| I. Work Plan Reference: SECTION 4   |   |  |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # 14956 | number and assigned team; coordinates   |  |
| III. QCI Results: SAT   |   |  |
| 1 Hit Small FRAG  |   |  |
|   |   |  |
|   |   |  |
| IV. Corrective Actions Recommended (to include co                                     | ntrols to prevent recurrence):  |  |
|   |   |  |
|   |   |  |
|   |   |  |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| - le Azersine   | Tools   |  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |  |





| Date: <u>3/3c/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.00   | Z Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL FURSING   |   |
| I. Work Plan Reference: SECTION  | 4   |
| II. Activity Inspected/Reinspected: (List by or description)  GRID # /5で ( | task; grid number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
|  |   |
| IV. Corrective Actions Recommended (to i                                   | include controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| GCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1,0020

# Quality Conformance Inspection (QCI) Record

| Date: 2/20/97 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSING -   | Sim Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; g or description)  GRID # /5   NE | rid number and assigned team; coordinates   |
| III. QCI Results: 5aT  |   |
| 1 HOT SMALL FRAG   |   |
|  |   |
| IV. Corrective Actions Recommended (to include                                       | controls to prevent recurrence):  |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - M Hensine  | - Vonla   |
| CCI Team Leader  | Sr. UXO Supervisor/Project Manager  |

# 15 I

#### Quality Conformance Inspection (QCI) Record

| 0/- //0  |   |
|--|---|
| Date: <u>2/30/97</u> Time:   | Contract Number:  |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO -   | lum Tomiko  |
| I. Work Plan Reference: <u>SECTION</u> 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # /5/ NE | d number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
| 1 Hor Small FRAG   |   |
| IV. Corrective Actions Recommended (to include commended to include commended)         | ontrols to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M Hensin   | Toole Survey States   |
| @CI Team Leader  | Sr. ปXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| / /  | · · · · · · · · · · · · · · · · · · ·                         |
|--|---|
| Date: 2/20/97 Time:  | Contract Number:  |
| Delivery Order Number: 7206.002                                      | Location: CAMP CROFT OOU 6                                    |
| Personnel Involved: BILL AURSINO -                                   |   |
|  |   |
| I. Work Plan Reference: <u>SECTION 4</u>                             |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; g or description) | grid number and assigned team; coordinates                    |
| GRID# 152 NE   |   |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
| III. QUI riesulus.   |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                       | controls to provent requirement):                             |
| 14. Corrective Actions Recommended (to include                       | s controls to prevent recurrence).                            |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this |
| W Hursin   | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager                            |
|  |   |

UXB Form 95-1.0020



| Date: <u>3/20/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL PURSING -   | SIM TOMIKO  |
| I. Work Plan Reference: <u>SECTION</u> 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grown or description)  GRID # 1535E | rid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include o                                       | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been priefed on the results of this inspection and will take corrective actions (if necessary). |
| Walusin  | 1 Til   |
| QCI Team Leader  | Sr./UXO Supervisor/Project Manager  |

# Quality Conformance Inspection (QCI) Record

|   | <del></del>   |
|---|---|
| Date: <u>-7/2c/97</u> Time:   | Contract Number:  |
| Delivery Order Number: 7206.002   | Location: CAMP CROFT OOU 6                                  |
| Personnel Involved: BILL AURSINO  | - Jun Tomiko  |
|   |   |
| I. Work Plan Reference: <u>SEC TON 4</u>  |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID # 154 Sw | sk; grid number and assigned team; coordinates              |
| UNIV 44- /4/  |   |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
| m. Qui ricouito.  |   |
|   |   |
| Bull DozED PRIO   | RTO QC  |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to inclu                                    | uride controls to prevent recurrence):                      |
| 14. Condenia rancia riccommendos (lo men  | sue controls to prevent recuirence.                         |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| •   |   |
| V. Signatures:  | acknowledge that I have been briefed on the results of this |
| W Alusiw  | inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager                          |
| QOI TEAM LEADE!   | On One Oupervisor reject manager                            |



#### Quality Conformance Inspection (QCI) Record

| Date: <u>2/2c/97</u> Time:   | Contract Number:  |
|--|---|
| • •  |   |
|  | Location: Chur Cloff OOU 6  |
| Personnel Involved: BILL AURSINO   | - JIM TOMIKO  |
| I. Work Plan Reference: <u>SECTION</u> 4   | <u></u>   |
| II. Activity Inspected/Reinspected: (List by ta<br>or description)<br>GRID ## /55 St | ask; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
| 3 Itirs MAGA   | ACPS  |
| IV. Corrective Actions Recommended (to inc   | clude controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M KUSIW  |   |
| QCI Team Leader  | Sr. XIXO Supervisor/Project Manager   |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>2/14/97</u> T        | ime:               | Contract Number:  |
|-------------------------------|--------------------|---|
| Delivery Order Number:        |                    | · ·   |
| Personnel Involved: Biu       | AURSINO -          | Sum Tomiko  |
| I. Work Plan Reference:       | SECTION 4          |   |
|                               |                    |   |
| or description)               |                    | grid number and assigned team; coordinates  |
| GRID #                        | = 157 NE           |   |
|                               |                    |   |
|                               |                    |   |
| III. QCI Results: <u>54</u> T | ·                  |   |
|                               |                    |   |
|                               | SMALL BA           | RBWIRE  |
|                               |                    |   |
|                               |                    |   |
| IV. Corrective Actions Recom  | mended (to include | e controls to prevent recurrence):  |
|                               |                    |   |
|                               |                    |   |
|                               | <u> </u>           |   |
|                               |                    |   |
|                               |                    |   |
| V. Signatures:                |                    | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader               |                    | Sr. UXO Supervisor/Project Manager  |
|                               |                    |   |



#### Quality Conformance Inspection (QCI) Record

| 1.1  |   |
|--|---|
| Date: Time:  | Contract Number:  |
| Delivery Order Number: 7206.002                                    | Location: Charle CROFT OOU 6                                  |
| Personnel Involved: Bill Aursino —                                 | SIM TOMIKO  |
| I. Work Plan Reference: SECTION 4                                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates                    |
| GRID# 158 SE   | <del></del>   |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
| 1 HIT - Small Fo   | RAG   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):                            |
|  |   |
|  |   |
|  |   |
|  |   |
|  | <u> </u>  |
|  |   |
| V. Signatures;   | I acknowledge that I have been briefed on the results of this |
| Le Hersin  | inspection and will take corrective actions (if necessary).   |
| IL Herrin  | / 1/2 F   |



| Date: 14 FEB 97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSINO -  | - Jun Tomiko  |
| I. Work Plan Reference: <u>SECT76ル 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # /59 5W | grid number and assigned team; coordinates  |
| III. QCI Results: 5AT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | te controls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | acknowledge that I have been bristed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr/UXO Supervisor/Project Manager   |



UXB Form 95-1:0020

# Quality Conformance Inspection (QCI) Record

| / /   |   |
|---|---|
| Date: <u>3/18/47</u> Time:  | Contract Number:  |
| Delivery Order Number: 7206.002   | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL PURSINO -  |   |
| I. Work Plan Reference: <u>SECTION</u> 4  |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 165 SE | grid number and assigned team; coordinates  |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
|   | <del></del>   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to includ                                     | le controls to prevent recurrence):   |
| (1. 001100  |   |
|   |   |
| <del></del>   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M. Hursin   | - Tolo  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u> </u>   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING -   | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # /66 SE | ; grid number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | de controls to prevent recurrence):   |
|  |   |
|  |   |
| V. Signatures:   | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - W Wusuu  QCI Team Leader   | - Vonta   |
| ANTI LABITE FABRAL   | Sc/UXO Supervisor/Project Manager   |



#### Quality Conformance Inspection (QCI) Record

| Date: <u>1/18/97</u> Time:                   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002              | Location: CAMP CROFT OOU 6                                    |
| Personnel Involved: BILL PURSING -           |   |
| I. Work Plan Reference: SECTION 4            |   |
|  |   |
| or description)                              | c; grid number and assigned team; coordinates                 |
| GRID# 167NE                                  |   |
|  |   |
|  |   |
| III. QCI Results: 54T                        | <del></del>   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to inclu | de controls to prevent recurrence):                           |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V 6:   | i acknowledge that I have been briefed on the results of this |
| V. Signatures:                               | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader                              | SI UXO Supervisor/Project Manager                             |
|  |   |



UDGB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>2/18/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel involved: BILL PURSING -   | - Sum Tomiko  |
| i. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # /685E | grid number and assigned team; coordinates  |
| III. QCI Results: SAT  | 24  |
|  |   |
| IV. Corrective Actions Recommended (to includ                                    | le controls to prevent recurrence):   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr/UXO Supervisor/Project Manager   |
| AAL LAMIL CAMAGE   | Oit OVO Subervisot/Ltolect wataget  |



UXB International, Inc.

| Date: 2/18/97 Time:                               | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002                   | Location: CHAIR CROFT OOU 6   |
| Personnel Involved: BILL AURSINO -                |   |
| Personnel Involved:                               | - Giri, Torii,-c  |
| I. Work Plan Reference:                           |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task | k; grid number and assigned team; coordinates   |
| or description)                                   |   |
| GRID# 169 NW                                      |   |
|   |   |
|   |   |
|   |   |
| III. QCI Results: SAT                             |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   | · · · · · · · · · · · · · · · · · · ·   |
| IV. Corrective Actions Recommended (to inclu      | ide controls to prevent recurrence):  |
|   |   |
|   |   |
|   | <del> </del>  |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:                                    | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| W Hursin  | 1972-Q  |
| QO Team Leader                                    | Sr. UXO Supervisor/Project Manager  |

LDB Form 95-1.0020



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| 1 1   |   |
|---|---|
| Date: <u>1/18/97</u> Time:                                    | Contract Number:  |
| <del>-</del>  | 6.002 Location: CHAP CROFT OOU 6  |
| Personnel involved: Bicc Au                                   | RSINO - JIM TOMIKO  |
| I. Work Plan Reference:                                       | TION 4  |
| II. Activity Inspected/Reinspected: or description)  GRID # / | (List by task; grid number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommend                              | ded (to include controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| Marin   | - / To-lo   |
| QCI Team Leader   | Sr. XIXO Supervisor/Project Manager   |

UXB Form 95-1.0020



UXB international. Inc:-

| <u> </u>   |   |   |             |
|--|---|---|-------------|
| Date: 2/19/47 Time                                 | Con                                     | ntract Number:  |             |
| Delivery Order Number: 720                         | 6.00Z Loc                               | eation: CAMP CROFT OOU E  | >           |
| Personnel Involved: Brcc 40                        | RSINO - SIM                             | Tomiko  |             |
| I. Work Plan Reference: 56                         | TTON 4                                  |   | <u> </u>    |
| II. Activity Inspected/Reinspected or description) |   | mber and assigned team; coordina  | tes         |
| III. QCI Results: SAT                              |   |   |             |
|  |   |   | _           |
|  |   |   | <u> </u>    |
|  |   |   | _           |
| IV. Corrective Actions Recommen                    | ded (to include contro                  | ois to prevent recurrence):   |             |
|  |   |   | <u> </u>    |
|  |   |   | _           |
|  | *************************************** |   | <del></del> |
|  |   |   | <del></del> |
| V. Signatures:                                     |   | acknowledge that I have been briefed on the results<br>respection and will take corrective actions (if necessar |             |
| ll Hersin  |   | Tolo  |             |
| ∕QCI Team Leader                                   |   | Sr. XXO Supervisor/Project Manag  | <b>e</b> r  |



# Quality Conformance Inspection (QCI) Record

| Date: <u>2/18/47</u> Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSING -  | Sum Tomiko  |
| I. Work Plan Reference: <u>SECTION</u> 4  |   |
| II. Activity Inspected/Reinspected: (List by task; grown or description)  GRID # /7J NW | rid number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include o  | controls to prevent recurrence):  |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Husin  | - Took  |
| QC! Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date:   |
|---|
|   |
| Delivery Order Number: 7206.002 Location: CAMP CROFT 00U6   |
| Personnel Involved: BILL PURSING - JIM TOMIKO   |
| I. Work Plan Reference: SEC.T76N 4  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 1735E               |
| III. QCI Results: 5AT   |
|   |
|   |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| Wituser 1006  |
| QCI/Team Leader Sr./UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 1/23/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel involved: BILL PURSING —  | Jul Tomiko  |
| I. Work Plan Reference: <u>SECTION</u> 4  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 174 SW | grid number and assigned team; coordinates                    |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | controls to prevent recurrence):                              |
| V Signatures.   | I acknowledge that I have been briefed on the results of this |
| V. Signatures: - W. Musiku  | inspection and will take corrective actions (if necessary).   |
| QCVTeam Leader  | Sr. UXO Supervisor/Project Manager                            |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 1/23/77 Time: Contract Number:  |
|---|
| Delivery Order Number: 7206.002 Location: Chul Cloft 00U6   |
| Personnel Involved: BILL PURSING — JUN TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # / 755い              |
| III. QCI Results: 5AT   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - U Husiya 1006   |
| QC/Team Leader Sr. XXO Supervisor/Project Manager   |



| Date: 1/23/97            | Time:                   | Contract Number:   |
|--------------------------|-------------------------|--|
| Delivery Order Number:   | 7206.00Z                | Location: Charl Cloft 0016   |
| Personnel Involved:      | BILL FURSINO -          | - Jun Tomiko   |
| I. Work Plan Reference:  | SECTION 4               |  |
| or description)          | nspected: (List by task | ; grid number and assigned team; coordinate  |
| II. QCI Results:         | 47                      |  |
|                          |                         |  |
| V. Corrective Actions Re | ecommended (to include  | de controls to prevent recurrence):  |
|                          |                         |  |
|                          |                         |  |
| V. Signatures:           |                         | I acknowledge that I have been briefed on the results of inspection and will take corrective actions (if necessary). |
| No Historia              |                         |  |



| / /  | <u></u>   |
|--|---|
| Date: Time:  | Contract Number:  |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO   | SIM TOMIKO  |
| I. Work Plan Reference: SECT76ル 4  |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID # 177 NE | rid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
| SMALL FRE  | 96  |
| IV. Corrective Actions Recommended (to include                                     | controls to prevent recurrence):  |
| •  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QO Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 96-1.0020

### Quality Conformance Inspection (QCI) Record

| Date: 1-23-47 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   | Location: Charl CROFT OOU 6                                   |
| Personnel Involved: BILL PURSING -  | Sun Tomiko  |
| I. Work Plan Reference: SECTION 4   |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; gr<br>or description)<br>GRID # /78 ルル | rid number and assigned team; coordinates                     |
|   |   |
|   |   |
| III. QCI Results: SATISFACTORY  |   |
|   |   |
| 33' FROM 178 NE >   | CONTACT GREATER   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include o  | controls to prevent recurrence):                              |
|   |   |
|   |   |
|   |   |
|   |   |
| •   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this |
| le Hussin   | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader   | SI/UXO Supervisor/Project Manager                             |



| Date: 1/29/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   | Location: Charl CROFT OOU 6   |
| Personnel Involved: BILL AURSINO  |   |
| I. Work Plan Reference: 56070N 4  |   |
| 1. Work Transferred   |   |
| II. Activity Inspected/Reinspected: (List by take or description)  GRID # 179 5 | sk; grid number and assigned team; coordinates  |
|   |   |
| III. QCI Results:   | <del></del>   |
|   |   |
|   |   |
| SMALL FRAME   | 4   |
| IV. Corrective Actions Recommended (to inc                                      | lude controls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
| <u> </u>  |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| Mylerain  |   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



|           |                   |                         | Contract Number:   |
|-----------|-------------------|-------------------------|--|
|           |                   |                         | Location: CAMP CROFT OOU 6   |
| Personr   | net involved:     | BILL FURSING -          | - Jun Tomiko   |
| I. Work   | Plan Reference:   | SECTION 4               |  |
|           | scription)        | nspected: (List by task | ; grid number and assigned team; coordinate  |
| III. QCI  | Results:          | 5AT                     |  |
|           |                   |                         |  |
|           |                   |                         |  |
|           |                   |                         |  |
|           |                   | SHALL FRAG              |  |
| IV. Corre | ective Actions Re | ecommended (to includ   | de controls to prevent recurrence):  |
|           |                   |                         |  |
|           |                   |                         |  |
|           |                   |                         |  |
|           | atupes:           |                         | I admowledge that I have been briefed on the results of inspection and will take corrective actions (if necessary) |
| V. Signa  | 1 - //            |                         |  |
|           | Mursing Leader    | <u> </u>                | Sr. UXO Supervisor/Project Manager   |



| Date: 26 Fel. 97 Time: 1460 Contract Number:  |
|---|
| Delivery Order Number: 7206.002 Location: Cp CccC+  |
| Personnel Involved: J. Osharma J. Ferris  |
| ا. Work Plan Reference: حدمات ا   |
|   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) らいんせいい                      |
|   |
|   |
| III. QCI Results: Sat   |
|   |
| 21 H. ts Arec saturated with non-OEW gardage  |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QQ Team Leader Sr. UXO Supervisor/Project Manager   |



| Date: 25 Fcb 97 Time: 1460  | Contract Number:  |
|---|---|
| Delivery Order Number: 7246 602   | Location: Cp CccC+  |
| Personnel Involved:   | ). Fectis   |
| I. Work Plan Reference: Section 41  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) (ユニオ 宝 2 (2) | grid number and assigned team; coordinates  |
| III. QCI Results:   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                  | e controls to prevent recurrence):  |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



| Date: 25 Feと ラフ Time: 146と Contract Number:   |
|---|
| Delivery Order Number: <u>720ほんの2</u> Location: <u>Co Cco F</u> サ   |
| Personnel Involved: J. Oskera J. Farris   |
| I. Work Plan Reference: Section 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                             |
| III. QCI Results: Sat   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: 25 Fet 97 Time: 1460   | Contract Number:  |
|--|---|
| Delivery Order Number:   | Location: Cp CroCt  |
| Personnel Involved: 1. Oskova  |   |
| I. Work Plan Reference: Section 4  |   |
| II. Activity Inspected/Reinspected: (List by task; gi<br>or description) 스마리 보다 (오니 Ca |   |
| III. QCI Results: Sat  | Frag  |
|  |   |
| IV. Corrective Actions Recommended (to include   | controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCLTeam Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | Location: Charle CROFT OOU 6  |
| Personnel Involved: BILL AURSING -   | - Sun Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # 193 5E | k; grid number and assigned team; coordinates   |
| Iti. QCI Results: 547  |   |
|  |   |
| IV. Corrective Actions Recommended (to inclu                                     | ide controls to prevent recurrence):  |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC/ Team Leader  | Sr. UXO Supervisor/Project Manager  |
|  |   |



UXB Form 98-1.0020

#### Quality Conformance Inspection (QCI) Record

| 1 /   |  |
|---|--|
| Date: 1/23/97 Time:   | Contract Number:   |
| Delivery Order Number: 7206.002   | Location: CAMP CROFT OOU 6   |
| Personnel Involved: BILL AURSINO -  | Jun Tomiko   |
| I. Work Plan Reference: SECTION 4   |  |
|   |  |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 194 CEN7 | -  |
|   |  |
|   |  |
| III. QCI Results: SAT   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to include                                      | e controls to prevent recurrence):   |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures:  | I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M. Hursin   | 170-6  |
| QC/Team Leader  | Sr. UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: Time:   |   |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSINO  | SIM TOMIKO  |
| I. Work Plan Reference: <u>SECTION 4</u>  |   |
| II. Activity Inspected/Reinspected: (List by task; g or description)  GRID # 195 NW | rid number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                      | controls to prevent recurrence):  |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader   | Sr. XXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: //23/97 Time:                        |  |
|--|--|
| Delivery Order Number: 7206.               | 002 Location: CHAP CROFT 00U6  |
| Personnel Involved: Bicc Aurs.             |  |
| Personnel Involved:                        | NO - SIPE TOPETO   |
| I. Work Plan Reference: 560.776            | N 4  |
|  |  |
| II. Activity Inspected/Reinspected: // is  | t by task; grid number and assigned team; coordinates  |
| or description)                            |  |
| GRID# 196                                  | CENTER   |
|  |  |
|  |  |
|  |  |
| III. QCI Results:                          |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended $\nu/A$ | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended         | (to include controls to prevent recurrence):   |
|  |  |
| V. Signatures:                             | I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary). |
|  | I acknowledge that I have been briefed on the results of the   |



|  | <del></del>   |
|--|---|
| Date: 1/23/97 Time: Contract Number:   |   |
| Delivery Order Number: 7206.002 Location: Chulf C                              | Stoff OOUB  |
| Personnel Involved: BILL PURSING - JIM TOMIKO                                  |   |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assignment) | ned team; coordinates   |
| or description)  GRID # 197 CENTER   |   |
|  |   |
|  |   |
| III. QCI Results:  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include controls to prevent re          | currence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| v. Signatures: inspection and will take  | to been briefed on the results of this corrective actions (if necessary). |
| 10 Husin /To   |   |
| QC/Team Leader Sr. UXO Super   | visor/Project Manager   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: //25/47 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number:   |   |
| Personnel Involved: BILL AURSINO -   | Jus Tomiko  |
| I. Work Plan Reference: <u>Sectron 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 19856 | grid number and assigned team; coordinates  |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |





UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| - 1/0×101 -:                       |   |
|------------------------------------|---|
| <del></del>                        | Contract Number:  |
| Delivery Order Number: 7206.       | OOZ Location: CHAP CROFT OOU 6  |
| Personnel Involved: Bicc Pur       | SINO - JIM TOMIKO   |
| I. Work Plan Reference: 56CT7      | on 4  |
|                                    |   |
| or description)                    | ist by task; grid number and assigned team; coordinates   |
| GRID # 19                          | 9 SE  |
|                                    |   |
|                                    |   |
| III. QCI Results: FAILED QC        | 7   |
| III. GOTTIOGRAD. THEED OF          |   |
| ZLG FIECES OF HETAL                | @ 12" AND I HULE SHOE @ 18"   |
|                                    | F THE QC GRID, NUMERICUS LARGE  |
| CENTALTS THROUGH OUT               | TEITHL GRID.  |
|                                    |   |
|                                    |   |
| IV. Corrective Actions Recommended | d (to include controls to prevent recurrence):  |
| RECOMMEND RE-MAGO                  | SING WITH THE EM-61.  |
| REMAGENTIPE BEX                    | NIF GRO AND COMPARE   |
| Results                            |   |
| - REINSPECTION REQU                | UIRED   |
| 7                                  |   |
|                                    |   |
| V. Signatures:                     | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Hursin                          | 17,-1   |
| QCÍ Team Leader                    | Sr. UXO Supervisor/Project Manager  |

# NATION!

#### **Quality Conformance Inspection (QCI) Record**

| Date: <u>ユム Fcと                                   </u>                  | Contract Number:  |
|---|---|
| Delivery Order Number:  | Location: Cp Cast   |
| Personnel Involved: J. Ostoc~c. J. Ferr                                 | `s  |
| I. Work Plan Reference: Section 4                                       |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description) |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include co                       | ntrois to prevent recurrence):  |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OSLDeam Leader  | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: //25/97  | Time:                 | Contract Number:  |
|--|-----------------------|---|
| Delivery Order Number:   |                       |   |
| Personnel Involved: 310  | cfursino -            | SIM TOMIKO  |
| I. Work Plan Reference:  | SECTION 4             |   |
|  |                       |   |
| II. Activity Inspected/Reinspe | ected: (List by task; | grid number and assigned team; coordinates                    |
|  | E ZOO NW              |   |
|  |                       |   |
|  |                       |   |
| III. QCI Results: SAT  |                       |   |
|  |                       |   |
|  |                       |   |
|  |                       |   |
|  |                       |   |
| IV. Corrective Actions/Recor   | nmended (to include   | controls to prevent recurrence):                              |
| N/A  |                       | · · · · · · · · · · · · · · · · · · ·                         |
|  |                       |   |
|  |                       |   |
|  |                       |   |
|  | <b></b>               |   |
| V. Signatures;   |                       | I acknowledge that I have been briefed on the results of this |
| M. Hursus  |                       | inspection and will take corrective actions (if necessary).   |
| QC/ Team Leader  |                       | Sr. UXO Supervisor/Project Manager                            |

UXB Form 95-1.0020



| Date: 25 Feb 97 Time: 1400 Contract Nu  | ımber:  |
|---|---|
| Delivery Order Number: <u>72ತಕ ಅನ2</u> Location:  | Cp Croft  |
| Personnel Involved: J. Detrom. J. Frens   |   |
| I. Work Plan Reference: Seating 4   |   |
| II. Activity Inspected/Reinspected: (List by task; grid number ar or description) 合品は生 201 Calter | nd assigned team; coordinates   |
| III. QCI Results: Sat  4 11.47 Sacil Fra  | 3   |
| IV. Corrective Actions Recommended (to include controls to pre-                                   | event recurrence):  |
| inspection ar   | pe that I have been briefed on the results of this and will take corrective actions (if necessary).  Supervisor/Project Manager |



| Date: 25 Fcb 97 Time: 1400 Contract Number:   |
|---|
| Delivery Order Number: 7266.002 Location: Co CocFd  |
| Personnel Involved: J. Ostoche, J. Ferris   |
| I. Work Plan Reference:   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) られ 世 2の2                    |
| III. QCI Results: Set   |
| 3 Hits Small Frag   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  Jacknowledge that I have been briefed on the results of this  |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Project Manager  |



UXB International, Inc.

| Date: 25 Fc6 97 Time: 1400   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.662  | Location: Cp Croft  |
| Personnel Involved:  |   |
| I. Work Plan Reference: Section 4  |   |
| II. Activity Inspected/Reinspected: (List by task; goor description) (中の は 生 203 |   |
| III. QCI Results:  |   |
| 1 Hit Rosall Fra.  | <u> </u>  |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | controls to prevent recurrence):                              |
|  |   |
|  |   |
|  |   |
| V Signaturas:  | I acknowledge that I have been briefed on the results of this |
| V. Signatures:   | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader  | Sr/UXO Supervisor/Project Manager                             |

UXB Form 95-1.0020



| Date: 25 Fel. 97 Time: 1400 Contract Number:  |
|---|
| Delivery Order Number: 726位、できュ Location: Cp Cne によ   |
| Personnel Involved: U. Oshacia, U. Ferris   |
| 1. Work Plan Reference: Section 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) 요리 보고요네                     |
| III. QCI Results: 5.4   |
| 3 Hits : small Frag   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QChTeam Leader Sr.XXX Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

UXB International, Inc. 11 Date: 1/29/97 Contract Number: Time: \_\_ Delivery Order Number: 7206.002 Location: Chuf CROFT 00U6 Personnel Involved: BILL PURSING - JIM TOMIKO I. Work Plan Reference: SECT76N II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) GRID# 205 CTR / NORTH TO SOUTH SAT III. QCI Results: SHALL FRAG IV. Corrective Actions Recommended (to include controls to prevent recurrence): I acknowledge that I have been briefed on the results of this will take corrective actions (if necessary). Sr. UXO Supervisor/Project Manager



#### Quality Conformance Inspection (QCI) Record

| / /                     |                        |   |
|-------------------------|------------------------|---|
| <del> </del>            |                        | Contract Number:  |
| Delivery Order Number:  | 7206.00Z               | Location: CAMP CROFT OOU 6                                    |
| Personnel Involved: 3   | ccfursino -            | - SIM TOMIKO  |
| I. Work Plan Reference: | SECTION 4              |   |
| or description)         | pected: (List by task; | grid number and assigned team; coordinates                    |
| III. QCI Results:       | 47                     |   |
|                         | MAU FRAG               |   |
|                         |                        | de controls to prevent recurrence):                           |
|                         |                        |   |
| V Signatures:           |                        | I acknowledge that I have been briefed on the results of this |
| V. Signatures:          |                        | inspection and will take corrective actions (if necessary).   |
| /W Trusqu               | <del></del>            | - IVO Superioralization                                       |
| QCI Team Leader         |                        | ✓Sr. UXO Supervisor/Project Manager                           |

# RIMATIO H

#### Quality Conformance Inspection (QCI) Record

UXB International, Inc.: Date: 1/20/97 Contract Number: Time: Delivery Order Number: 7206.002 Location: CAMP CROFT 00U6 Personnel Involved: BILL PURSING - JIM TOMIKO II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) GRID# 207 NW III. QCI Results: 5 HITS SMALL FRAG IV. Corrective Actions Recommended (to include controls to prevent recurrence): I acknowledge that I have been brisfed on the results of this V. Signatures: inspection and will take corrective actions (if necessary). Sr. UXO Supervisor/Project Manager ØCI Team Leader



| Date: 25 Fcb 97  | Contract Number:  |
|--|---|
| Delivery Order Number: 7266.002  | Location: Co. Croff   |
| Personnel Involved:  | reeris  |
| I. Work Plan Reference:  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) ← ← 208 Ce-4e |   |
| III. QCI Results:  |   |
| 4 Hits Smell F   | <u> </u>  |
|  |   |
| IV. Corrective Actions Recommended (to include                                   | e controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | ) acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader  | Sr 11XO Supervisor/Project Manager  |
| QCI/Team Leader  | Sr. /UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 25 Feb 97 Time: 0900 Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: Cp. Cccf4   |
| Personnel Involved: J. Dsbarne, J. Ferris   |
| ا. Work Plan Reference: عدد علی الله الله الله الله الله الله الله ال   |
| 1. WORK Fight Fleisteines   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) 습교로 보고 209                  |
| III. QCI Results: 5a+   |
|   |
| 23 Hits, Small Frag   |
|   |
| <del></del>   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader Sr. UXO Supervisor/Project Manager  |



| Date: 25 Fck 97 Time: 0.960 Contract Number:   |
|--|
| Delivery Order Number: 7206,002 Location: Cp.Cccf+   |
| Personnel Involved: J. Ostorne, J. Ferris  |
| 1. Work Plan Reference: Saction 4  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                            |
| III. QCI Results: Sat  21 Hits Snall Frag  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
| V. Signatures:  I addressing that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Project Manager   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 25 Feb 97 Time: 6900   | Contract Number:   |  |
|--|--|--|
| Delivery Order Number: 7266.682  | Location: Cp. Creft  |  |
| Personnel Involved: U.Dskarne, U.Ferris  |  |  |
| I. Work Plan Reference: Section 4  |  |  |
| II. Activity Inspected/Reinspected: (List by task; gricor or description) 요리를 보고 11 Cenfec   |  |  |
| III. QCI Results: 54  18 Hits 5mall Fra  |  |  |
| IV. Corrective Actions Recommended (to include control of the cont | ontrols to prevent recurrence):  |  |
| V. Signatures:  QChTeam Leader   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  Sr. JOXO Supervisor/Project Manager |  |
|  | Or had other alsolitable infact managet  |  |



| Date: 25 Fc.l. 97                                     | Time: <u> </u>       | Contract Number:  |
|---|----------------------|---|
| Delivery Order Number:                                | 7206.002             | Location: Cp. Ccost   |
| Personnel Involved:                                   | Debarne U.           | Ferris  |
| I. Work Plan Reference:                               | Section 4            |   |
| II. Activity Inspected/Reins<br>or description) Color |                      | grid number and assigned team; coordinates  |
| III. QCI Results:                                     | Hits Small           | Frag  |
| IV. Corrective Actions Re-                            | commended (to includ | le controls to prevent recurrence):   |
|   |                      |   |
| V. Signatures:  |                      | I acknowledge that I have been briefed on the recults of this inspection and will take corrective actions (if necessary). |
| ACUL  |                      | - to-l  |
| QCI Team Leader                                       |                      | Sr. どXO Supervisor/Project Manager  |



| Date: 2/2c/97          | Time:                    | Contract Number:                              |
|------------------------|--------------------------|---|
| Delivery Order Numbe   | r: 7206.00Z              | Location: Charl CROFT OOU 6                   |
| Personnel Involved:    | BILL AURSINO             | - Jun Tomiko                                  |
| I. Work Plan Reference | E: <u>SECTION</u> 4      |   |
| or description)        | einspected: (List by tas | sk; grid number and assigned team; coordinate |
| III. QCI Results:      | SAT                      |   |
| -                      | 3 HITS Small H           | RAC   |
|                        | 3 HITS Small F           | RAG   |
|                        |                          | ude controls to prevent recurrence):          |
|                        |                          |   |
|                        |                          |   |
|                        |                          |   |
|                        |                          | ude controls to prevent recurrence):          |
|                        |                          |   |



#### Quality Conformance Inspection (QCI) Record

| Date: 1/30/97                | Time:                   | Contract Number:  |
|------------------------------|-------------------------|---|
|                              |                         | Location: CHUP CROFT 00U6   |
| Personnel Involved: 3        | ufulsiNO -              | Jul Tomiko  |
| I. Work Plan Reference:      | SECTION 4               |   |
| II. Activity Inspected/Reins | nected: // ist by task: | grid number and assigned team; coordinates  |
| or description)              | # 214 Sw                | grid ridinger and accigned team, coordinates  |
|                              | # 5170                  |   |
|                              |                         |   |
| III. QCI Results:            | HT .                    |   |
|                              | HIT Small               | FRAG  |
|                              |                         |   |
|                              |                         |   |
|                              |                         |   |
| IV. Corrective Actions Hec   | ommenaea (to inclua     | e controls to prevent recurrence):  |
|                              |                         |   |
|                              |                         |   |
|                              |                         |   |
|                              |                         |   |
| V. Signatures:               |                         | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| CCI Team Leader              |                         | Br. UXO Supervisor/Project Manager  |
|                              |                         |   |



#### Quality Conformance Inspection (QCI) Record

| , /   |   |
|---|---|
| Date: 2/20/97 Time:   | Contract Number:  |
| Delivery Order Number: 7206.002   | Location: CAMP CROFT COULD  |
| Personnel Involved: BILL AURSINO -  | Jul Tomiko  |
| I. Work Plan Reference: SECTION 4   |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID ## 215 SE | grid number and assigned team; coordinates  |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
| 1- HIT SMALL  | FRAG  |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                      | controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Hursin   | A TANK WILL WILL WILL GOVERNMENT OF THE PROPERTY).  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: 2/20/97               | Time:                   | Contract Number:  |
|-----------------------------|-------------------------|---|
| _                           |                         | Location: Chur Cloff OOU 6  |
| Personnel Involved: Bild    | Cfursino -              | Jul Tomiko  |
| I. Work Plan Reference:     | SECTION 4               |   |
| or description)             | ected: (List by task; t | grid number and assigned team; coordinates  |
|                             | SAT<br>-HITS SMALL      |   |
|                             | THIS THREE              |   |
| IV. Corrective Actions Reco | mmended (to include     | e controls to prevent recurrence):  |
|                             |                         |   |
| V. Signatures:              |                         | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader             |                         | Sr. UXO Supervisor/Project Manager  |



| Date: 3/3c/97 Time: Contract Numb  | er:  |
|--|--|
| Delivery Order Number: 7206.002 Location: Chi  |  |
| Personnel Involved: BILL FURSING - JUN TOMIK   | <u>:</u>                                   |
| I. Work Plan Reference: SECTION 4  |  |
|  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number and a or description) | ssigned team; coordinates                  |
| GRID# 217 CTR  |  |
|  |  |
|  |  |
| III. QCI Results: S47  |  |
|  | <del></del>                                |
|  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended (to include controls to preven                    | nt recurrence):                            |
|  |  |
|  |  |
| ·  |  |
|  |  |
| <del></del>  |  |
| V. Signatures:   | I have been briefed on the results of this |
| W Ausin  | take conscrive actions (if necessary).     |
|  | pervisor/Project Manager                   |



| Date: <u>2/2c/97</u> Time:                             |   |
|--|---|
| Delivery Order Number: 7206,002                        | Location: Charl CROFT OOU 6   |
| Personnel Involved: BILL PURSING -                     | IM TOMIKO   |
|  |   |
| I. Work Plan Reference: <u>Sec T76ル 4</u>              |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; gr. | id number and assigned team; coordinates  |
| or description)  GRID ## 31858                         |   |
|  |   |
|  |   |
|  |   |
| III. QCI Results: SAT                                  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include o       | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 1 /1-0   |   |
| WHILISER   | - Tooks   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: <u>3/20/97</u> Time:   | Contract Number:   |
|--|--|
| Delivery Order Number: 7206.002  |  |
| Personnel Involved: BILL AURSINO -   | - Jun Tomiko   |
| I. Work Plan Reference: <u>SECTION</u> 4   |  |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # 219 N€ | ; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  |  |
|  |  |
| IV. Corrective Actions Recommended (to include                                   | de controls to prevent recurrence):  |
|  |  |
|  |  |
|  |  |
| V. Signatures:   | I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - WALUSING   | 5/1V0 5  |
| প্রCI Team Leader  | Sr. UXO Supervisor/Project Manager   |



#### Quality Conformance Inspection (QCI) Record

| Date: <u> </u>   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO -   | Jul Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID ## 2205w | grid number and assigned team; coordinates  |
| III. QCI Results: SAT  |   |
| IV. Corrective Actions Recommended (to include                                     | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been brisfed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>2/19/47</u>       | Time:                   | Contract Number:  |
|----------------------------|-------------------------|---|
| Delivery Order Number:     |                         |   |
| Personnel Involved:        | ILL AURSINO -           | - Jun Tomiko  |
| I. Work Plan Reference:    | SECTION 4               |   |
| or description)            | spected: (List by task) | grid number and assigned team; coordinates  |
| IV. Corrective Actions Rec | commended (to includ    | le controls to prevent recurrence):   |
| V. Signatures:             |                         | I acknowledge that I have been bristed on the results of this inspection and will take corrective actions (if necessary). |
| U Hursin                   |                         | / The Land Courts (a recovery).   |
| QCI Team Leader            |                         | Sr. UXO Supervisor/Project Manager  |

JH



LDCB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| <i>il</i>                 |                         |  |
|---------------------------|-------------------------|--|
| Date: 2/19/97             | Time:                   | Contract Number:   |
|                           |                         | Location: Charl CROFT OOU 6  |
| Personnel involved:       | PICC PURSINO -          | JIM TOMIKO   |
| I. Work Plan Reference:   | SECTION 4               |  |
| or description)           | spected: (List by task; | grid number and assigned team; coordinates   |
| III. QCI Results:         | 547                     |  |
|                           |                         |  |
| IV. Corrective Actions Re | commended (to includ    | e controls to prevent recurrence):   |
|                           |                         |  |
|                           |                         |  |
|                           | <u> </u>                |  |
| V. Signatures: 1          |                         | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |
| le Heisin                 |                         | The state of the s |
| QCi Team Leader           |                         | Sr. UXO Supervisor/Project Manager   |



UXB Form 95-1.0020 ···

#### Quality Conformance Inspection (QCI) Record

| Date: <u>2/19/97</u> Time:                                     |                     | ontract Number:  |
|--|---------------------|--|
|  |                     | ocation: CHAP CROFT OOU 6  |
| Personnel Involved: BILL PL                                    | RSINO - JA          | M TOMIKO   |
| I. Work Plan Reference:  | TION 4              |  |
| II. Activity Inspected/Reinspected: or description)  GRID #= a |                     | number and assigned team; coordinates  |
| III. QCI Results: SAT  |                     |  |
|  |                     |  |
| IV. Corrective Actions Recommen                                | ded (to include con | trols to prevent recurrence):  |
|  |                     |  |
|  |                     |  |
| V. Signatures:   |                     | I acknowledge that I have been briefed on the moutts of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  |                     | Sr. UXO Supervisor/Project Manager   |



#### Quality Conformance Inspection (QCI) Record

| Date: <u>3/19/97</u> Time:                         | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                    | Location: Chur Cloft 0046   |
| Personnel Involved: BILL AURSINO -                 |   |
|  |   |
| 1. Work Plan Reference: <u>SECTION 4</u>           |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; | grid number and assigned team; coordinates  |
| or description)  GRID # 225 5€                     |   |
|  |   |
|  |   |
|  |   |
| III. QCI Results: SAT                              |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include     | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                                     | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M. Husin   | 15-6  |
| QCI Team Leader                                    | 8r. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| 1 1  |   |
|--|---|
| Date: <u>2/19/97</u> Time:   | Contract Number:  |
| Delivery Order Number: 7206.002  | Location: Charle CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -   | Jun Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID # 239 SW | arid number and assigned team; coordinates  |
| III. QCI Results:  SAT   |   |
| IV. Corrective Actions Recommended (to include                                     | controls to provent requirement.  |
| TV. Corrective Actions Recommended (to include                                     | Controls to prevent recurrence).  |
|  |   |
|  |   |
| V. Signatures:   | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| · M Hersins  | Tob   |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: <u>1/19/97</u> Time:                 | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002            | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO           | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4          | Δ   |
|  |   |
| or description)                            | ask; grid number and assigned team; coordinates   |
| GRID# 2365E                                |   |
|  |   |
|  |   |
| III. QCI Results: SAT                      |   |
| Small Frat                                 | -   HIT   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to inc | clude controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                             | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 10 Hersin                                  | 17756<br>51170 Santa (17)   |
| QC! Team Leader                            | Sf. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 1/19/97 Time: Contract Number:  Delivery Order Number: 7206.002 Location: CAMP Close OUL6  Personnel Involved: BILL AURSINO — JUN TOMIKO  I. Work Plan Reference: 5&CTIGN 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 23/NW  III. QCI Results: 5AT |
|---|
| Personnel Involved: BILL Aursino — Jun Tomiko  i. Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 23/NW  III. QCI Results: SAT  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 231 NW  III. QCI Results: SAT   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID ## 331 NW  III. QCI Results: SAT  |
| or description)  GRID # 23/NW  III. QCI Results: SAT  |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   |
| - Withersin / To-6  |
| QCI Team Leader Sf. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Delivery Order Number: 7206.002 Location: Cash Clost OOU6 Personnel Involved: But Aulsino — Jun Tomiko  I. Work Plan Reference: Section 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 332 NE  III. QCI Results: June 1  V. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures: I admonwedge that I have been bristed on the raudits of the impaction and will have concern for more control of included on the raudits of the impaction and will have concern for more control of more control of the contr | Date: <u>2/19/97</u> Time:                    | Contract Number                     |
|--|---|-------------------------------------|
| Personnel Involved: Bru full III. Activity Inspected/Reinspected: (List by task: grid number and assigned team; coordinates or description)  FRID # 332 NE  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  What is a support of the substance of the improvement of the improvement actions (if necessary).  What is a support of the improvement of the improvement actions (if necessary).  | 1   | i                                   |
| II. Activity Inspected/Reinspected: (List by task: grid number and assigned team; coordinates or description)  GRID # 232 N/E  III. QCI Results: S47  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I actnowledge that I have been briefed on the results of the happedon and will lake corrective actions (if necessary).  W. A. Signatures:  I actnowledge that I have been briefed on the results of the happedon and will lake corrective actions (if necessary).   |   |                                     |
| III. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  SRID ## 232 N/E  III. QCI Results:  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I addrowledge that I have been breed on the massits of this inspection and will take corrective actions (if necessary).  W. Signatures:  V. B. W. W. Signatures:  I addrowledge that I have been breed on the massits of this inspection and will take corrective actions (if necessary).   | Personnel involved: BILL AURSINO -            | - JIM TOMIKO                        |
| or description)  GRID # 932 NE  III. QCI Results: 347  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  Lacknowledge that I have been briefed on the results of this inspection and will lake corrective actions (if necessary).   | 1. Work Plan Reference: <u>SEC TON 4</u>      |                                     |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  White inspection and will take corrective actions (if necessary).   | or description)                               |                                     |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   | III. QCI Results: SAT                         |                                     |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   |   |                                     |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   |   |                                     |
| V. Signatures:    Jacknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   |   |                                     |
| V. Signatures: inspection and will take corrective actions (if necessary).  Wherein  | IV. Corrective Actions Recommended (to inclu- | de controis to prevent recurrence): |
| V. Signatures: inspection and will take corrective actions (if necessary).  Wherein  |   |                                     |
| V. Signatures: inspection and will take corrective actions (if necessary).  Wherein  |   |                                     |
| V. Signatures: inspection and will take corrective actions (if necessary).  Wherein  |   |                                     |
|  |   |                                     |
|  |   | Sr. UXO Supervisor/Project Manager  |

# MATION

UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 25 Feb 97 Time: 0900 Co   | ntract Number:  |
|---|---|
| Delivery Order Number: 7206.002 Lo  | cation: Cp. CocF4   |
| Personnel involved: J. D. Storne, J. Ferris   |   |
| I. Work Plan Reference: 도로 나이지 다  |   |
| II. Activity Inspected/Reinspected: (List by task; grid not or description) Gald ≠ 233 Cander | umber and assigned team; coordinates  |
| III. QCI Results: Sat  A Hits Small Forg  |   |
| IV. Corrective Actions Recommended (to include contr  | rols to prevent recurrence):  |
| ACI   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  Sr. UXO Supervisor/Project Manager |



#### Quality Conformance Inspection (QCI) Record

| Date: 25 Feb 97 Time: 3955 Contract Number:  |
|--|
| Delivery Order Number: 7266.562 Location: Co Coolt   |
| Personnel Involved: J. Osbache, J. Freeis  |
| I. Work Plan Reference: Section of   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) 근 그 보고 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 |
| III. QCI Results: Set  |
| 2 Hits Smell Frag  |
|  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).              |
| QC Team Leader Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 25 Fck 97 Time: 09 00 Contract Number:   |
|--|
| Delivery Order Number: 72cu. 002 Location: Cq. CseC+   |
| Personnel Involved: U. Osterne, J. Ferris  |
| I. Work Plan Reference: Section 4  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)                              |
| III. QCI Results: Sat  |
| 8 Lits, Small Frag   |
|  |
|  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  |
|  |
|  |
| V. Signatures:  I acknowledge that I have been briefled on the results of this inspection and will take corrective actions (if necessary). |
| QCI-Team Leader Sr. UXO Supervisor/Project Manager   |



# Quality Conformance Inspection (QCI) Record

| Date: 25 Feb 97 Time: 0900 Contract Number:   |
|---|
| Delivery Order Number: 7206 002 Location: Cp. Cocff   |
| Personnel involved: 1. Oskor 1. 5-251.5   |
| I. Work Plan Reference: Sction リ  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description) C. パ 単 236                  |
| III. QCI Results: Set   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
| V. Signatures:  i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QSLTeam Leader Sr. UXO Supervisor/Project Manager   |

337 S€



#### Quality Conformance Inspection (QCI) Record

| Date: <u>1/20/47</u> T       | ime:                   | Contract Number:  |
|------------------------------|------------------------|---|
| Delivery Order Number:       | 206.002                | Location: Charle CROFT OOU 6                                  |
| Personnel involved: Bill     |                        |   |
| I. Work Plan Reference:      | SECTION 4              |   |
| or description)              | cted: (List by task; g | grid number and assigned team; coordinates                    |
| III. QCI Results: 5A         |                        |   |
| IV. Corrective Actions Recom | mended (to include     | controls to prevent recurrence):                              |
|                              |                        |   |
| V. Signatures:               |                        | I acknowledge that I have been briefed on the results of this |
| W. Signatures.               |                        | inapection and will take corrective actions (if necessary).   |
| QCI Team Leader              |                        | Sr. UXO Supervisor/Project Manager                            |
| AAL LAMIL POWAAL             |                        | CR ONO CUPOT TISOM FTO JOCK WIRE IZUSI                        |

# 738 D



#### Quality Conformance Inspection (QCI) Record

| Date: #/30/97 Time: Contract Number:  Delivery Order Number: #206.002 Location: CHAP CLOST OOU 6  Personnel Involved: BILL FULSINO — J.M. TBMIKO  I. Work Plan Reference: 5EC.T16.N. 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 338 SE  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures: 1 addressed on and will lake corrective actions (if necessary).  L. Williams OCI Team   cardet   St. XXO Supervisor/Project Managary.   | 1 1                        |                         |   |
|--|----------------------------|-------------------------|---|
| Personnel Involved: BILL PURSING — Jun Tomiko  I. Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task: grid number and assigned team; coordinates or description)  GRID # 338 5E  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  U. Humann  I addrowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).   | Date: <u>2/20/97</u>       | Time:                   | Contract Number:  |
| Personnel Involved: BILL FULSINO — JIM TOMIKO  I. Work Plan Reference: 5ECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description).  GRID # 338 5E  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  U. Signatures:  I addrowledge that I have been briefled on the results of this inspection and will take corrective actions (if necessary).  | Delivery Order Number:     | 7206.002                | Location: CAMP CROFT OOU 6                                  |
| III. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 338 58  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures;  I acknowledge that I have been briefled on the results of this inspection and will take corrective actions (if nacessary).  W. W. Signatures;  J. W. W. Signatures actions (if nacessary).  | Personnel Involved:        | LL PURSINO -            | Jun Tomiko  |
| III. QCI Results:  SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures;  A Thusan  I addressible that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  A Thusan   | I. Work Plan Reference:    | SECTION 4               |   |
| V. Signatures; |                            |                         |   |
| III. QCI Results:  SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures;  J. acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  A. Humann   | •                          | spected: (List by task; | grid number and assigned team; coordinates                  |
| V. Signatures:    Jacknowledge that I have been brefed on the results of this inspection and will take corrective actions (if necessary).  | GRID                       | # <i>338 5E</i>         |   |
| V. Signatures:    Jacknowledge that I have been brefed on the results of this inspection and will take corrective actions (if necessary).  |                            |                         |   |
| V. Signatures:    Actnowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |                            |                         |   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  | III. QCI Results:          | 27                      |   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |                            |                         |   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |                            |                         |   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |                            |                         |   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).  |                            |                         |   |
| inspection and will take corrective actions (if necessary).  | IV. Corrective Actions Red | commended (to include   | e controls to prevent recurrence):                          |
| inspection and will take corrective actions (if necessary).  |                            |                         |   |
| inspection and will take corrective actions (if necessary).  |                            |                         |   |
| inspection and will take corrective actions (if necessary).  |                            |                         |   |
| inspection and will take corrective actions (if necessary).  |                            |                         |   |
| inspection and will take corrective actions (if necessary).  |                            |                         | Lackrowiteche that I have been briefed on the market this   |
|  | l <sup>-</sup> / /)        |                         | inspection and will take corrective actions (if necessary). |
| Con realing Education Toler Manager  | QCI Team Leader            |                         | Sr. UXO Supervisor/Project Manager                          |



LDCB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: <u>7/20/97</u> Time:   | Contract Number:  |
|--|---|
|  | Location: CAMP CROFT OOU 6  |
| Personnel Involved: Bill fulls (NO   | - Jul Tomiko  |
| I. Work Plan Reference: SECTION 4  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID ## 339 NE | sk; grid number and assigned team; coordinates  |
| GRID # 337 NE  |   |
|  |   |
| III. QCI Results: SAT  |   |
| 77, COTTIONS   |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to incli                                     | ude controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| · _ A Hurin  | - Toil  |
| QC/Team Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: \$\frac{19\sqrt{91}}{2\sqrt{91}}\$ Time: Contract Number:  Delivery Order Number: \$\frac{7206.002}{206.002}\$ Location: \$\frac{\text{CMM} Cloff OOU6}{206.006}\$  Personnel involved: \$\frac{\text{Dru Full SiNO}}{\text{Dru Full SiNO}}\$ — \$\frac{\text{Jul Totuliko}}{\text{UND Milko}}\$  II. Activity inspected/Reinspected: \$(\text{List by task; grid number and assigned team; coordinates or description)}\$  \$\text{GRID ## 340 5E}\$  III. QCI Results: \$\frac{\text{SAT}}{\text{UND SATE}}\$  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:   | 2/2/42                     |                      | Contract Number   |
|--|----------------------------|----------------------|---|
| Personnel Involved: BILL FURSINO — Jun Tomiko  I. Work Plan Reference: SECTION 4  II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 340-32  III. QCI Results: S4T  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:   Lackrowledge that I have been briefled on the results of the proposition and will table corrective actions (if necessary).  W. Signatures:   Lackrowledge that I have been briefled on the results of the proposition and will table corrective actions (if necessary).   |                            |                      |   |
| II. Activity Inspected/Reinspected: (List by task: grid number and assigned team; coordinates or description)  GRID # 146 SE  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  A. Human  I. Activity Inspected/Reinspected: (List by task: grid number and assigned team; coordinates or description)  GRID # 146 SE  III. QCI Results:  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  The provided gradual includes actions (it necessary).  What was the provided gradual includes actions (it necessary).   | Delivery Order Number:     | 7206.002             | Location: CAMP CROFT OOU 6  |
| III. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 340 52  III. QCI Results: SAT  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I admossedge that I have been briefed on the meuta of the inspection and will take corrective actions (if necessary).  W. H. W. W. W. W. Signatures:  I admossed that I have been briefed on the meuta of the inspection and will take corrective actions (if necessary).   | Personnel involved:        | LL fursiNO -         | - JIM TOMIKO  |
| or description)  GRID ## 340 52  III. QCI Results: S4T  IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:   I acknowledge that I have been briefed on the results of thinspection and will take corrective actions (if necessary).  W. H. W. W. H. W. W. H. W. W. W. W. W. W. W. W. W. W. W. W. W.   | I. Work Plan Reference:    | SECTION 4            |   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):  V. Signatures:  I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary).  Li Husius  Total  | or description)            |                      | grid number and assigned team; coordinates  |
| V. Signatures:    Signatures:   Signatures   | III. QCI Results:          | AT                   |   |
| V. Signatures:    Signatures:   Signatures   |                            |                      |   |
| V. Signatures:    acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary).   I acknowledge that I have been briefed on the results of the inspection and will take corrective actions (if necessary).  |                            |                      |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   | IV. Corrective Actions Rec | commended (to includ | le controls to prevent recurrence):   |
| v. Signatures: inspection and will take corrective actions (if necessary).   |                            |                      |   |
| V. Signatures: inspection and will take corrective actions (if necessary).   |                            |                      |   |
| v. Signatures: inspection and will take corrective actions (if necessary).   |                            |                      |   |
|  |                            |                      | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| The same of the sa |                            |                      | Sr. UXO Supervisor/Project Manager  |
| X8 Form 95-1.0020 ·  |                            |                      |   |



UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 2/19/97 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.   | 00Z Location: Charle CROFT 00U6   |
| Personnel Involved: Bill fulls                                       | NO - Sun Tomiko   |
| I. Work Plan Reference: 560.776                                      | N 4   |
| II. Activity Inspected/Reinspected: (List or description)  GRID # 24 | by task; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
|  |   |
| IV. Corrective Actions Recommended                                   | (to include controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Téam Leader  | Sr. UXO Supervisor/Project Manager  |
|  |   |



#### Quality Conformance Inspection (QCI) Record

| Date: _2/19/97                                     |   |
|--|---|
| Delivery Order Number: 7206.002                    | Location: Chur CROFT OOU 6  |
| Personnel Involved: BILL AURSINO -                 | Lu Thuiko   |
| Personnel Involved:                                | Jipi Topilleo   |
| I. Work Plan Reference: SECTION 4                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; | grid number and assigned team; coordinates  |
| or description)                                    |   |
| GRID# 146 CTR                                      | ·   |
|  |   |
|  |   |
| III. QCI Results: SaT                              |   |
| III. QCI Results: <u>SAT</u>                       |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include     | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                                     | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| _ le Hursen  | Tombo   |
| QCI Team Leader                                    | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: 2/19/97 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | ——————————————————————————————————————  |
|  |   |
| Personnel involved: BILL AURSINO -   | Jul Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; gri<br>or description)<br>GRID # 247 NW | id number and assigned team; coordinates  |
| III. QCI Results: 5AT  |   |
|  | e Rock  |
| IV Compating Actions Recommended to include a  |   |
| IV. Corrective Actions Recommended (to include c   | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - UKusu  | - To-6  |
| QC/Team Leader   | Sr. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020

#### Quality Conformance Inspection (QCI) Record

| Date: 2/19/97 Time:   |   |
|---|---|
| Delivery Order Number: 7206.0   | OZ Location: CAMP CROFT OOU 6   |
| Personnel Involved: BILL PURSIA   | 40 - Sun Tomiko   |
| I. Work Plan Reference: SECTION   | 14  |
| II. Activity Inspected/Reinspected: (List bor description)<br>GRID # 3485 | ny task; grid number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to                                    | o include controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| W Hersia  | 172%  |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| <del></del>  |   |
|--|---|
| Date: <u> </u>   | Contract Number:  |
| Delivery Order Number: 7206.0  |   |
| Personnel Involved: BILL PURSIA  | 10 - Jun Tomiko   |
| I. Work Plan Reference:  | 4   |
| II. Activity Inspected/Reinspected: (List boor description)  GRID ## 349 | by task; grid number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
|  |   |
| IV. Corrective Actions Recommended (to                                   | include controls to prevent recurrence):  |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 2/3c/97   |
|---|
|   |
| Delivery Order Number: 7206.002 Location: Charl Cloft 00U6  |
| Personnel Involved: BILL AURSINO - JIM TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 250 ルモ              |
| till. QCI Results: SAT  |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M Hursin Tomb   |
| QC/Team Leader Sr. UXO Supervisor/Project Manager   |



#### Quality Conformance Inspection (QCI) Record

| Date: <u>2/20/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO -   | IM TOMIKO   |
| I. Work Plan Reference: <u>S€C776N 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # 251 NW | d number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
| <del></del>  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include co                                      | entrols to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - M Hersin   | 1-10-6  |
| QCI Yeam Leader  | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

| Date: 2/2c/44 Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING -                                       | SIM TOMIKO  |
| I. Work Plan Reference: 56CT76N 4  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; gr<br>or description) | rid number and assigned team; coordinates   |
| GRID# 352 SW   |   |
| <u> </u>   |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include a                         | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 10 Mussin  | - To-ko   |
| QCI Team Leader  | Sr./UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

| 1 1  |   |  |
|--|---|--|
| Date: <u>4/19/97</u> Time:   | Contract Number:  |  |
| Delivery Order Number: 7206.002                                    |   |  |
| Personnel Involved: BILL AURSINO -                                 | Jul Toulko  |  |
| I. Work Plan Reference: SECTION 4                                  |   |  |
|  |   |  |
| II. Activity Inspected/Reinspected: (List by task; or description) |   |  |
| GRID# 253 CTT  | <u> </u>  |  |
|  |   |  |
|  |   |  |
| III. QCI Results: SAT  |   |  |
|  |   |  |
| 2 HITS MAENET  | Me Soil   |  |
|  |   |  |
|  |   |  |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):  |  |
|  | 14. Contective Actions recommended (to include controls to prevent recurrence).   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |  |
| ر در از از از از از از از از از از از از از                        |   |  |



# Quality Conformance Inspection (QCI) Record

| Date: <u>2/19/97</u> Time:  |   |
|---|---|
| Delivery Order Number: 7206.002   | Location: Charle CROFT OOU 6  |
| Personnel Involved: BILL PURSINO -  | Sau Tomiko  |
| I. Work Plan Reference: <u>SECTION 4</u>  |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)             | grid number and assigned team; coordinates  |
| GRID# 254 SE  |   |
|   |   |
|   |   |
| III. QCI Results:   |   |
|   |   |
|   |   |
|   |   |
| The Company of the include  | controls to provent requirement.  |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence): |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le Husin  | 170-6   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



#### Quality Conformance Inspection (QCI) Record

| Date: 2/19/97 Time:  | Contract Number:  |  |
|--|---|--|
| Delivery Order Number: 7206.00   |   |  |
| Personnel Involved: BILL PURSINO - SIM TOMIKO                                  |   |  |
| I. Work Plan Reference: SECTION 4  | 7   |  |
| II. Activity Inspected/Reinspected: (List by to or description)  GRID ## 755 / | ask; grid number and assigned team; coordinates   |  |
|  |   |  |
| III. QCI Results: SAT  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| IV. Corrective Actions Recommended (to inc                                     | clude controls to prevent recurrence):  |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:   | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| QCI Team Leader  | Sr/UXO Supervisor/Project Manager   |  |

# J56

# Quality Conformance Inspection (QCI) Record

|  | Contract Number:  |  |
|--|---|--|
| Delivery Order Number: 7206.002                      | Location: Charl CROFT 00U6  |  |
| Personnel Involved: BILL AURSINO -                   |   |  |
|  |   |  |
| I. Work Plan Reference: <u>SECTION 4</u>             |   |  |
|  |   |  |
| II. Activity Inspected/Reinspected: (List by task; g | grid number and assigned team; coordinates  |  |
| or description)  GRID # 256 NW                       | ·   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| III. QCI Results:                                    |   |  |
|  |   |  |
| 2 HITS BRICKS  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| IV. Corrective Actions Recommended (to include       | controls to prevent recurrence):  |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:                                       | I acknowledge that I have been brisfed on the results of this inspection and will take corrective actions (if necessary). |  |
| W Husing   |   |  |
| QCI Team Leader                                      | Sr. UXO Supervisor/Project Manager  |  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| /                         |                         | Contract Number:  |
|---------------------------|-------------------------|---|
| Delivery Order Number:    | 7206.00Z                | Location: Charl CROFT OOU 6                                   |
| Personnel Involved:       | BILL FURSINO -          | - Jul Thuiko  |
|                           |                         |   |
| I. Work Plan Reference:   | SECTION 4               |   |
|                           |                         |   |
|                           | nspected: (List by task | k; grid number and assigned team; coordinates                 |
| or description)           | # 257NW                 |   |
| <u> </u>                  | 14- 25 TNW              |   |
|                           |                         |   |
|                           |                         |   |
| III. QCI Results:         | SAT                     |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
| IV. Corrective Actions Re | ecommended (to inclu    | de controls to prevent recurrence):                           |
|                           | <del></del>             |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
| V. Signatures:            |                         | i acknowledge that I have been briefed on the results of this |
| Mafrie                    |                         | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader           |                         | Sr. UXO Supervisor/Project Manager                            |
|                           |                         |   |



#### Quality Conformance Inspection (QCI) Record

| Date: Time:  | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                                    | Location: CHAIP CROFT OOU 6   |
| Personnel Involved: BILL AURSINO -                                 | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4                                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates  |
| GRID# 2585W  |   |
|  |   |
| III. QCI Results: SAT  |   |
| III. COTTESCIO.  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | de controis to prevent recurrence):   |
|  |   |
|  |   |
|  |   |
|  |   |
| •  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QOI Team Leader  | Sr. UXO Supervisor/Project Manager  |
|  |   |



# Quality Conformance Inspection (QCI) Record

| / /-   |   |  |
|--|---|--|
| Date: <u>2/19/97</u> Time:   | Contract Number:  |  |
| Delivery Order Number: 7206.002  |   |  |
| Personnel Involved: BILL AURSINO -   | - Jun Tomiko  |  |
| I. Work Plan Reference: SECTION 4  |   |  |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # 259 NW | ; grid number and assigned team; coordinates  |  |
| III. QCI Results: SAT  |   |  |
| 1 HIT SMALL FRAG   |   |  |
|  |   |  |
| IV. Corrective Actions Recommended (to include                                   | de controls to prevent recurrence):   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |  |
| . W Hersin   | - / To-6  |  |
| QC/ Team Leader  | Sr./ÚXO Supervisor/Project Manager  |  |



#### Quality Conformance Inspection (QCI) Record

| Date: <u>2/19/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                                      |   |
| Personnel Involved: BILL PURSING -                                   | Sun Tomiko  |
| I. Work Plan Reference: SECTION 4                                    |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; g or description) |   |
| GRID# 760 CTR  |   |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                       | controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures: W. Wusing   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QC: Team Leader  | Sr. UXO Supervisor/Project Manager  |
|  |   |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc. -

| Date: <u> </u>  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSING -  | Ju Tomiko   |
| I. Work Plan Reference:   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 761 NE | grid number and assigned team; coordinates  |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | e controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| Musin   | Tombe   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |

U39 Form 95-1.0020



#### Quality Conformance Inspection (QCI) Record

| Date: Time: Contract Number:  |
|---|
| Delivery Order Number: 7206.002 Location: CAMP CROFT 00U6   |
| Personnel Involved: BILL PURSINO - JIM TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 月62 NW              |
| III. QCI Results: SAT   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Project Manager  |

# TX O

# Quality Conformance Inspection (QCI) Record

| Date: <u>7/3c/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSINO -   | Jun Tomiko  |
| i. Work Plan Reference:  |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID # 363 Sw |   |
| III. QCI Results: SAT  |   |
| IV. Corrective Actions Recommended (to include                                     | controls to prevent recurrence):                              |
| V Cignotures   | I acknowledge that I have been briefed on the results of this |
| V. Signatures:   | inspection and will take corrective actions (if necessary).   |
| OCI Team Leader  | Sr. UXO Supervisor/Project Manager                            |

#### Quality Conformance Inspection (QCI) Record

| Date: <u>3/30/97</u> Time: Co                             | intract Number:   |
|---|---|
| Delivery Order Number: 7206.002 Lo                        |   |
| Personnel Involved: BILL PURSING - SIA                    | u Tomiko  |
| I. Work Plan Reference: <u>SEC. TIGN</u> 4                |   |
| II. Activity Inspected/Reinspected: (List by task; grid n | umber and assigned team: coordinates  |
| or description)  GRID ## 364 NW                           | umber and assigned team, cooldinates  |
| GK10 # 30 7 70 W  |   |
|   |   |
| III. QCI Results: SAT                                     |   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include cont       | rois to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QOI Team Leader   | Sr. UXO Supervisor/Project Manager  |

H9



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: <u>2/19/97</u> Time:                                      | Contract Number:  |
|---|---|
|   | Location: Chur CROFT 00U6                                     |
| Personnel Involved: BILL PURSING                                | - SIM TOMIKO  |
| I. Work Plan Reference:   |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by ta or description) | sk; grid number and assigned team; coordinates                |
| GRID# 2695E   |   |
|   |   |
|   |   |
| III. QCI Results: SAT   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to inc                      | iude controls to prevent recurrence):                         |
| <del></del>   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V Signatures:   | I acknowledge that I have been briefed on the results of this |
| V. Signatures:  | inepection and will take corrective actions (if necessary).   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager                            |
|   |   |

UXB Form 95-1.0020



# Quality Conformance Inspection (QCI) Record

| Date: <u>3/19/97</u> Time:  | Contract Number:   |
|---|--|
| Delivery Order Number: 7206.002   |  |
| Personnel Involved: BILL AURSINO -  | Ju Tomiko  |
| I. Work Plan Reference: SECTION 4   |  |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 270 SE | grid number and assigned team; coordinates   |
| III. QCI Results: SAT   |  |
|   |  |
|   |  |
|   |  |
| IV. Corrective Actions Recommended (to include                                    | controls to prevent recurrence):   |
|   |  |
|   |  |
|   |  |
|   |  |
| V. Signatures:  | I acknowledge that I have been briefled on the results of this inspection and will take corrective actions (if necessary). |
| OSI FORM ARTE   | Fr MYO Suponince (Braine Manager   |
| QCI Team Leader   | Sr. ぜXO Supervisor/Project Manager   |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: 2/19/97              | Time:                                 | Contract Number:  |
|----------------------------|---------------------------------------|---|
| Delivery Order Number:     |                                       |   |
| Personnel involved:        | ILL PURSINO -                         | - Sim Tomiko  |
| I. Work Plan Reference:    | SECTION 4                             |   |
| or description)            | spected: (List by task; # 271 NE  SAT | grid number and assigned team; coordinates  |
| IV. Corrective Actions Rec | ommended (to includ                   | e controls to prevent recurrence):  |
|                            |                                       |   |
| V. Signatures:             |                                       | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader            |                                       | Sr. UXO Supervisor/Project Manager  |
|                            |                                       |   |

UXB Form 95-1.0020



# Quality Conformance Inspection (QCI) Record

| 1.1  |   |
|--|---|
| Date: <u>2/19/97</u> Time:                       | Contract Number:  |
| Delivery Order Number: 7206.002                  | Location: Charl CROFT OOU 6                                   |
| Personnel Involved: BILL AURSINO                 |   |
| Personnel Involved:                              | - Jiri Torineo  |
| I. Work Plan Reference: <u>SECTION 4</u>         | <u></u>   |
|  |   |
| II. Activity Inspected/Reinspected: (List by tax | sk; grid number and assigned team; coordinates                |
| or description)                                  |   |
| GRID# 272 N                                      |   |
|  |   |
|  |   |
| III. QCI Results: 5AT                            |   |
| THE CONTRODUCT.                                  |   |
|  |   |
| 5 Hits - MAGE                                    | KTIC So, L  |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to inc       | lude controls to prevent recurrence):                         |
|  |   |
|  |   |
|  |   |
|  |   |
|  | <del></del>   |
|  |   |
| V Signatures:                                    | I acknowledge that I have been briefed on the results of this |
| V. Signatures:                                   | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader                                  | Sr. XXO Supervisor/Project Manager                            |
| 401 100H E04001                                  | OTTO CAPOLABOUT TOJOUT HISTINGO                               |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: <u>4/19/97</u> Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSING .  | - JIM TOMIKO  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task or description)  GRID # ユヲヲヲル | k; grid number and assigned team; coordinates   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to inclu                                    | de controls to prevent recurrence):   |
|   |   |
| V. Signatures:  | I acknowledge that I have been bristed on the results of this inspection and will take corrective actions (if necessary). |
| M. Alesin   | Tonto   |
| QCI Team Leader   | Sr. EXO Supervisor/Project Manager  |

UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| / /                        |  |  |
|----------------------------|--|--|
| Date: 2/19/97              | Time:                                      | Contract Number:   |
| Delivery Order Number:     | 7206.00Z                                   | Location: Charl CROFT OOU 6  |
| Personnel Involved: ###    | LL fursiNO -                               | SIM TOMIKO   |
| I. Work Plan Reference:    | SECTION 4                                  |  |
| or description)            | spected: (List by task;                    | grid number and assigned team; coordinates   |
| III. QCI Results: 5        | AT   |  |
|                            |  |  |
|                            |  |  |
| IV. Corrective Actions Hed | commended (to includ                       | e controls to prevent recurrence):   |
|                            |  |  |
|                            |  |  |
|                            |  |  |
| V. Signatures:             |  | I acknowledge that I have been briefled on the results of this inspection and will take corrective actions (if necessary). |
| OSITER LARGE               |  | Sol IVO Supervised Project Manager   |
| QCI Team Leader            | <u>.                                  </u> | Sr. UXO Supervisor/Project Manager   |



# Quality Conformance Inspection (QCI) Record

| (  |                          |   |
|--|--------------------------|---|
| Date: 2/19/97  | Time:                    | Contract Number:  |
| Delivery Order Number:   |                          | Location: CHAP CROFT OOU 6  |
| Personnel Involved: Bic  | LAURSINO                 | Sum Tomiko  |
| I. Work Plan Reference:  | SECTION 4                |   |
|  |                          |   |
| II. Activity Inspected/Reinspe | ected: (List by task; gi | rid number and assigned team; coordinates   |
| GRID #   | = 275 SW                 |   |
|  |                          |   |
|  |                          |   |
| III. QCI Results:  | SAT                      |   |
| <del></del>  | <del></del>              |   |
|  |                          |   |
|  |                          |   |
|  |                          |   |
| IV. Corrective Actions Recor   | nmended (to include      | controls to prevent recurrence):  |
|  |                          |   |
|  |                          |   |
|  |                          |   |
|  |                          |   |
|  |                          |   |
| V. Signatures:   |                          | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - Workersin  | <del></del>              | - 1 To-6  |
| QCI Team Leader  |                          | Sr. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>2/19/97</u> Time: Contract                            | t Number:  |
|--|--|
| Delivery Order Number: 7206.002 Location                       | : CHUP CROFT OOU 6                                     |
| Personnel Involved: BILL AURSINO - Jun 7                       | BMIKO  |
| I. Work Plan Reference: SECTION 4                              |  |
|  |  |
| II. Activity Inspected/Reinspected: (List by task; grid number | r and assigned team; coordinates                       |
| or description)  GRID # 276 SW                                 |  |
|  |  |
|  |  |
| III. QCI Results: SAT  |  |
|  |  |
| 1 HIT - MAGNETIC SOIL  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended (to include controls to     | o prevent recurrence):                                 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  | wiedge that I have been briefed on the results of this |
| V. Signatures: inspec  | ion and will take corrective actions (if necessary).   |
|  | XO Supervisor/Project Manager                          |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 44347 Time: Contract Number:  |
|---|
|   |
| Delivery Order Number: 7206.002 Location: Charle Cloff 0006   |
| Personnel Involved: BILL PURSINO - SIM TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 277 NE              |
|   |
| III. QCI Results: SAT - MAGNETIC ROCKS  |
|   |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I solnowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 10 Ausin Trulo  |
| QCI Team Leader Sr/UXO Supervisor/Project Manager   |



UXB Form 95-1,0020

# Quality Conformance Inspection (QCI) Record

| Date: 448 97 Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                                    |   |
| Personnel Involved: BILL AURSINO -                                 | - SIM TOMIKO  |
| I. Work Plan Reference: SECTION 4                                  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) |   |
| GRID # 278 NW  |   |
|  |   |
|  |   |
| III. QCI Results: SAT - MAGNE                                      | FTIC Rocks  |
|  | <del></del>   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include                     | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 1 Hersins  | The Local and was one corrective actions (if necessary).  |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

| Date: 4 FEB 97 Time: Contract Number:   |
|---|
| 1   |
| Delivery Order Number: 7206.002 Location: CAMP CROFT 00U6   |
| Personnel Involved: BILL PURSING - JUM TOMIKO   |
| 1. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 279 NE              |
| III. QCI Results: SAT - MAGNETIC Rocks  |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| 11-1/   |
| Witherson Tol   |



# Quality Conformance Inspection (QCI) Record

| Date: 4 FEB 97 Time: Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: CAMP CROFT 00U6   |
| Personnel Involved: BILL AURSINO - SIM TOMIKO   |
| i. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 280 5E              |
| III. QCI Results: SAT - MAGNETIC Rocks  |
| m. doi results. Thomas Property Packs   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Yeam Leader Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

| Date: <u>3/30/47</u> Time: Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: Charl Chart 0006  |
|   |
| Personnel Involved: BILL FURSINO - SIM TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)<br>GRID # 28/ 5€            |
| III. QCI Results: SaT   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader Sr. UXO Supervisor/Project Manager  |



### Quality Conformance Inspection (QCI) Record

| Date: <u>3/20/97</u>      | Time:                   | Contract Number:  |
|---------------------------|-------------------------|---|
| f -                       |                         | Location: Charl CROFT OOU 6                                   |
| Personnel Involved:       | LICE FURSINO -          | Jun Tomiko  |
| I. Work Plan Reference:   | SECTION 4               |   |
| or description)           | spected: (List by task; | grid number and assigned team; coordinates                    |
| III. QCI Results:         | SAT                     |   |
|                           |                         |   |
|                           |                         |   |
| IV. Corrective Actions Re | commended (to includ    | e controls to prevent recurrence):                            |
|                           |                         |   |
|                           |                         |   |
|                           |                         |   |
| V. Signatures:            |                         | I acknowledge that I have been briefed on the results of this |
| Le Hersen                 |                         | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader           |                         | Sr. UXO Supervisor/Project Manager                            |



### Quality Conformance Inspection (QCI) Record

| Date: <u>2/34/93</u> Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSING -  | SIM TOMIKO  |
| i. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; gor description)  GRID # 183 CTR | nrid number and assigned team; coordinates  |
| III. QCI Results: SAT  J HMS MAG Rock   | 4   |
|   |   |
| IV. Corrective Actions Recommended (to include                                      | controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - U Hersin  | 1 miles   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>7/30/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL AURSINO -   | IM TOMIKO   |
| I. Work Plan Reference: SECTION 4  |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # 284 Sw | d number and assigned team; coordinates   |
| III. QCI Results: 54T  |   |
|  |   |
| IV. Corrective Actions Recommended (to include co                                      | ontrols to prevent recurrence):   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that i have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr/UXO Supervisor/Project Manager   |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: <u>2//9/97</u> Time:                           | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                      |   |
| Personnel Involved: BILL PURSING -                   | Sim Tomiko  |
| I. Work Plan Reference: SECTION 4                    |   |
| II. Activity Inspected/Reinspected: (List by task; g | urid number and assigned team: coordinates                    |
| or description)                                      | The member and assigned team, cooldinates                     |
| GRID # 285 SW  |   |
|  |   |
| III OC! Besulto:                                     |   |
| III. QCI Results: SAT                                |   |
| 1 HIT - METAL A                                      | Oal Class   |
| - THE STEIRC F                                       | 7   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to include       | controls to prevent recurrence):                              |
|  |   |
|  |   |
|  |   |
| •  |   |
| V. Signaţures:                                       | f acknowledge that I have been briefed on the results of this |
| - U Flersin  | inspection and will take corrective actions (if necessary).   |
| QCI Team Leader                                      | Sr. UXO Supervisor/Project Manager                            |

UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: <u>3/19/97</u> Time:   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002                                    |   |
| Personnel Involved: BICC FURSINO -                                 | - JIM TOMIKO  |
| I. Work Plan Reference:  |   |
|  |   |
| II. Activity Inspected/Reinspected: (List by task; or description) | grid number and assigned team; coordinates  |
| GRID# 286 SE   |   |
|  |   |
|  |   |
| III. QCI Results: SAT  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| IV. Corrective Actions Recommended (to includ                      | e controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| W Hursin   | 1 To-6  |
| QCI Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 2/19/97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSING -  | - SIM TOMIKO  |
| I. Work Plan Reference: <u>SECTION</u> 4  |   |
| II. Activity Inspected/Reinspected: (List by task, or description)  GRID # 387 NU |   |
| III. QCI Results: SAT   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | de controls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - le Hersin   | 1-6   |
|   |   |



# Quality Conformance Inspection (QCI) Record

| Date: 3468 97 Time:   | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL FURSING -  | - Jun Tomiko  |
| I. Work Plan Reference: <u>SECTION</u> 4  |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 289 C7 |   |
| III. QCi Results: 5A7   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | le controls to prevent recurrence):   |
|   |   |
|   |   |
|   |   |
| V. Signatures:  | acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| M. Hersia   | - To-ck   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: 3 #68 97 Time:   | Contract Number:  |
|--|---|
|  |   |
| Delivery Order Number: 7206.002  |   |
| Personnel Involved: BILL PURSING - J.  | un Tomiko   |
| I. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # 290 SE | number and assigned team; coordinates   |
| III. QCI Results:  |   |
|  |   |
| IV. Corrective Actions Recommended (to include co                                      | ntrols to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| UKursin  | 1006  |
| QCI feam Leader  | Sr. UXO Supervisor/Project Manager  |

UXE Form 95-1.0020



UXB Form 96-1,0020

# Quality Conformance Inspection (QCI) Record

| Date: 3463 97 Time: Contract Number:  |
|---|
|   |
|   |
| Personnel Involved: BILL PURSINO - JIM TOMIKO   |
| I. Work Plan Reference: <u>SECTION 4</u>  |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 291 NW              |
|   |
| III. QCI Results: SAT   |
|   |
|   |
|   |
|   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
|   |
|   |
|   |
|   |
| V. Signatures:  I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - 11 Hursiin Took   |
| QCI Team Leader St/UXO Supervisor/Project Manager   |



UXD Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 3163 97 Time:  | Contract Number:   |
|--|--|
| • •  |  |
|  | Location: CAMP CROFT OOU 6   |
| Personnel Involved: BILL AURSINO   | - Jul Tomiko   |
| I. Work Plan Reference:  |  |
| II. Activity Inspected/Reinspected: (List by tas or description)  GRID # 292 5 | k; grid number and assigned team; coordinates  |
| III. QCI Results: SAT  |  |
| III. QUI Results.  |  |
|  | · · · · · · · · · · · · · · · · · · ·  |
|  |  |
|  |  |
|  |  |
|  |  |
| IV. Corrective Actions Recommended (to inclu                                   | ude controls to prevent recurrence):   |
|  |  |
|  |  |
|  |  |
|  |  |
| V. Signatures:   | I admowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader  | Sr XXO Supervisor/Project Manager  |
|  | And an analysis and an analysis Ani  |





U)@ Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 3 F68 97 Time: Contract Number:   |
|---|
| Delivery Order Number: 7206.002 Location: CHAP CROFT 00U6   |
| Personnel Involved: BILL AURSINO - JIM TOMIKO   |
| I. Work Plan Reference: SECTION 4   |
| II. Activity Inspected/Reinspected: (List by task; grid number and assigned team; coordinates or description)  GRID # 293 SW              |
| III. QCI Results: PERSONALETE: 20+ HITS ON HAGNETIC Rocks. DID NOT DIG.   |
| IV. Corrective Actions Recommended (to include controls to prevent recurrence):   |
|   |
| V. Signatures:    acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| OC/ Team Leader Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 3F6897 Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002                                       | Location: Charl CROFT OOU 6                                   |
| Personnel Involved: BILL AURSINO -                                    | ······································                        |
|   |   |
| I. Work Plan Reference: <u>SECTION 4</u>                              |   |
|   |   |
| II. Activity Inspected/Reinspected: (List by task; gr or description) | id number and assigned team; coordinates                      |
| GRID # 294 SE   |   |
|   |   |
|   |   |
| III. QCI Results: SAT - 7 M   | Hr Rock HITS  |
| Due   | HG Rock HITS 4 & CLEHOLD.                                     |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include a                      | controls to prevent recurrence):                              |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| N. O'.  | I acknowledge that I have been briefed on the results of this |
| V. Signatures:  | inspection and will take corrective actions (if necessary).   |
| CCI Team Leader   | Sr. UXO Supervisor/Project Manager                            |
|   |   |

# XIII

# Quality Conformance Inspection (QCI) Record

| 2000   |   |
|--|---|
| Date: _3468 97 Time:                             |   |
| Delivery Order Number: 7206.002                  |   |
| Personnel Involved: BILL FURSING                 | - Jun Tomiko  |
| I. Work Plan Reference: SECTION 4                |   |
| II. Activity Inspected/Reinspected: (List by tas | k; grid number and assigned team; coordinates   |
| or description)<br>GRID # 295 N                  |   |
|  |   |
|  |   |
| III. QCI Results: SAT                            |   |
|  |   |
|  |   |
|  |   |
| II. O  |   |
| IV. Corrective Actions Recommended (to inclu     | ude controls to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:                                   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| - Marsus   | Sa (NO Superior (Parior)  |
| QCI Team Leader                                  | Sr/ÚXO Supervisor/Project Manager   |



UXB Form 95-1.0020

## Quality Conformance Inspection (QCI) Record

| Date: 3 PES 97 Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL PURSING -                                      | IM TOMIKO   |
| I. Work Plan Reference:   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description) |   |
| GRID# 296 NU  | /   |
|   |   |
|   |   |
| III. QCI Results: THE METIC Rock Co                                     | HAS TOO HANY  |
| MAGNETIC Rock Co  | NTACTS.   |
| HAD 20+ HITS TAN  | T WERE NOT DUE  |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to include co                       | ontrols to prevent recurrence):   |
|   |   |
|   | <u> </u>  |
|   |   |
|   | ···   |
|   |   |
|   |   |
| V. Signatures:  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| le bersie   | 1-6   |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

| Date: 3 FEB 97 Time: (   | Contract Number:  |
|--|---|
| Delivery Order Number: 7206.002  | · · · · · · · · · · · · · · · · ·   |
| Personnel Involved: BILL AURSINO - J.  | M TOMIKO  |
| I. Work Plan Reference: <u>SECTION 4</u>   |   |
| II. Activity Inspected/Reinspected: (List by task; grid or description)  GRID # 297 NE | number and assigned team; coordinates   |
| III. QCI Results: SAT  |   |
|  |   |
| IV. Corrective Actions Recommended (to include cor                                     | ntrols to prevent recurrence):  |
|  |   |
|  |   |
|  |   |
|  |   |
| V. Signatures:   | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QQ1 Team Leader  | Sr. UXO Supervisor/Project Manager  |



UXB Form 95-1.0020 --

# Quality Conformance Inspection (QCI) Record

| Date: 3 F63 97 Time: Contr   | act Number:  |
|--|--|
|  | tion: CHAP CROFT OOU 6   |
| Personnel Involved: BILL PURSING - JIM   | Tomiko   |
| I. Work Plan Reference: SECTION 4  |  |
| II. Activity Inspected/Reinspected: (List by task; grid numor description)  GRID # 298 CTR | ber and assigned team; coordinates   |
| III. QCI Results: SAT  |  |
|  |  |
| IV. Corrective Actions Recommended (to include controls                                    | s to prevent recurrence):  |
|  |  |
|  |  |
|  |  |
| V. Signatures:   | knowledge that I have been briefed on the results of this section and will take corrective actions (if necessary). |
|  | . UXO Supervisor/Project Manager   |



UXS Form 95-1.0020

# Quality Conformance Inspection (QCI) Record

| Date: 3 FEB 97 Time:  | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002   |   |
| Personnel Involved: BILL AURSINO -  | SIM TOMIKO  |
| I. Work Plan Reference: SECTION 4   |   |
| II. Activity Inspected/Reinspected: (List by task; or description)  GRID # 299 SE | grid number and assigned team; coordinates  |
| III. QCI Results:   |   |
|   |   |
| IV. Corrective Actions Recommended (to include                                    | controls to prevent recurrence):  |
|   |   |
|   |   |
| •   |   |
| V. Signatures:  | I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| QCI Team Leader   | Sr. UXO Supervisor/Project Manager  |



# Quality Conformance Inspection (QCI) Record

UXB International, Inc.

| Date: 3 FEB 97 Time:                            | Contract Number:  |
|---|---|
| Delivery Order Number: 7206.002                 | Location: CAMP CROFT OOU 6  |
| Personnel Involved: BILL AURSINO                |   |
| Personnel Involved:                             | - GD-1 107-117-0  |
| I. Work Plan Reference: <u>SECTIGN 4</u>        | <u></u>   |
|   |   |
| II. Activity Inspected/Reinspected: (List by ta | sk; grid number and assigned team; coordinates  |
| or description)                                 |   |
| GRID # 300 5                                    | <u>W</u>  |
|   |   |
|   |   |
| III. QCI Results: SAT                           |   |
| III. QCI Results:                               |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| IV. Corrective Actions Recommended (to inc      | clude controls to prevent recurrence):  |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
| V. Signatures:                                  | i acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary). |
| Le Husin  | / T_L   |
| QCI Team Leader                                 | Sr. UXO Supervisor/Project Manager  |

UXB Form 95-1.0020

# FINAL OE ENGINEERING DESIGN REPORT FOR ORDNANCE OPERABLE UNIT (OOU) 6 FORMER CAMP CROFT ARMY TRAINING FACILITY SPARTANBURG, SOUTH CAROLINA

**VOLUME II** 

DACA87-95-D-0018

**DELIVERY ORDER 0009** 

#### PREPARED FOR

U.S. ARMY ENGINEERING AND SUPPORT CENTER HUNTSVILLE, ALABAMA

### PREPARED BY

PARSONS ENGINEERING SCIENCE 57 EXECUTIVE PARK SOUTH, NE, SUITE 500 ATLANTA, GEORGIA 30329

**DECEMBER 1997** 

# APPENDIX G COST ESTIMATE

# APPENDIX G COST ESTIMATE

### G.1 INTRODUCTION

- G.1.1 Detailed cost esitmates are provided in this section. These cost estimates were prepared based on evaluation of cost for certain tasks that will be performed by a UXO contractor to implement the OE removal alternatives evaluated for each of the Ordnance Operable Unit 6 (OOU6) areas/sectors. These tasks are:
  - Site Visit
  - Preparation of Work plan (including SSHP)
  - Site Management
  - Land Survey
  - Brush Clearance
  - Surface OE Removal
  - Scrap Turn-In
  - Quality Control
  - Preparartion of Final Report
  - Site Restoration
- G.1.2 A summary of the cost estimate for each of the alternatives that were selected after initial screening of alternatives based on effectiveness and implementability in Section 2 (Volume I of the OE Engineering Design Report) is provided in Tables G-1 and G-2. Detailed cost estimates by task and other associated work elements are provided for each of the OOU6 Areas/Sectors in the following sections of this Appendix:
  - Section G.2 Pine Farm.
  - Section G.3 Landfill and Compost Areas
  - Section G.4 Pond Area
  - Section G.5 Natural Brush/Forest.

Each Section contains a summary of the estimated cost for all tasks and a detailed cost breakdown for each task identified above and as applicable to the removal alternative. The estimated cost for the selected removal alternative is provided at the beginning of each section.

Table G.1 **Cost Estimate Table** 

|             | Roads/Ops |                              | Landfill & | Pond    | Natural<br>Brush/      | Natural<br>Brush/ |
|-------------|-----------|------------------------------|------------|---------|------------------------|-------------------|
| Alternative | Bldg.     | Pine Farm                    | Comp. Area | Агеа    | Forests A              | Forest-B          |
| Alt. One    | Х         | <b>80,611</b> <sup>(1)</sup> |            |         | 101,480 <sup>(1)</sup> | X                 |
| Alt. Two    |           |                              |            |         |                        |                   |
| Alt. Three  |           | 270,664                      |            | 189,583 | 955,464                |                   |
| Alt. Four   |           |                              |            |         |                        |                   |
| Alt. Five   |           |                              |            |         |                        |                   |
| Alt. Six    |           |                              | 241,254    |         |                        |                   |
| Alt. Seven  |           | 292,565                      |            | 204,972 | 1,082,229              |                   |
| Alt. Eight  |           |                              |            | 225,710 |                        |                   |

#### Notes:

X Denotes no cost are associated

Alternative One

- No Further Action

Alternative Two

- Institutional Controls

Alternative Three

- Surface Clearance of OE

Alternative Four

- Surface Clearance of OE and Institutional Controls

Alternative Five

- Surface Clearance of OE with Subsurface Clearance of Selected Areas to a

Depth of One Foot

Alternative Six

- Surface Clearance of OE with Subsurface Clearance of Selected Areas to a

Depth of Four Feet

Alternative Seven

- Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth

of One Foot

Alternative Eight

- Surface Clearance of OE with Subsurface Clearance of Entire Area to a Depth

of Four Feet

(1) Alternative One - No Further Action Alternative with Limited Action

\$225,710

- Estimated Cost for the selected (per Corps of Engineers selection) removal

alternative.

Table G.2

| Cost by Task                     |            |           |            |         |           |            |         |         | 1927   |             |           |
|----------------------------------|------------|-----------|------------|---------|-----------|------------|---------|---------|--------|-------------|-----------|
| SECTORS                          | Cia. Visia | Į.        | Site       |         | Brush     |            |         | Quality | Final  | Site        |           |
| SECTORS                          | Site Visit | Work Plan | Management | Survey  | Clearance | OE Removal | Turn-in | Control | Report | Remediation | Summary   |
| Pine Farm - Alt 1 <sup>(1)</sup> | Not Req.   | 14,911    | 18,461     | 10,070  | Not Req.  | 8,538      | 1,467   | 6,319   | 11,666 | 300         | 71,732    |
| Pine Farm - Alt 1(2)             | Not Req.   | 16,958    | 19,910     | 10,274  | Not Req.  | 12,718     | 1,654   | 7,131   | 11,666 | 300         | 80,611    |
| Pine Farm - Alt 3                | 9,208      | 18,522    | 85,109     | 25,134  | 51,181    | 50,168     | 2,533   | 13,466  | 14,843 | 500         | 270,664   |
| Pine Farm - Alt 7                | 9,208      | 19,922    | 90,837     | 25,291  | 55,511    | 57,573     | 2,533   | 14,947  | 16,243 | 500         | 292,565   |
| Landfill - Alt 6                 | Not Req.   | 14,911    | 27,672     | 10,574  | 17,008    | 16,206     | 1,484   | 12,009  | 11,666 | Not Req.    | 111,530   |
| Landfill (7)                     | Not Req.   | 14,911    | 68,850     | 21,495  | 48,749    | 51,459     | 2,556   | 18,768  | 14,466 | Not Req.    |           |
| Pond Area - Alt 3                | Not Req.   | 18,522    | 66,676     | 18,640  | 15,699    | 38,050     | 1,561   | 18,922  | 11,213 | 300         |           |
| Pond Area - Alt 7                | Not Req.   | 18,522    | 72,234     | 18,640  | 15,699    | 42,898     | 1,561   | 20,275  | 14,843 | 300         |           |
| Pond Area - Alt 8                | Not Req.   | 18,522    | 74,197     | 18,640  | 15,699    | 53,861     | 2,533   | 27,115  | 14,843 | 300         | 225,710   |
| N Forests - Alt 1(4)             | Not Req.   | 14,911    | 17,807     | 8,870   | 15,439    | 11,694     | 1,484   | 6,500   | 11,665 | 300         | 88,670    |
| N Forests - Alt 1 <sup>(5)</sup> | Not Req.   | 14,911    | 22,103     | 8,870   | 15,439    | 17,197     | 1,981   | 9,011   | 11,666 | 300         | 101,478   |
| N Forests - Alt 3                | 9,208      | 18,522    | 120.717    | 111,654 | 373,237   | 272,997    | 2,533   | 31,253  | 14,843 | 500         |           |
| N Forests - Alt 7                | 9,208      | 23,065    | 128,694    | 111,654 | 457,796   | 299,541    | 2,533   | 34,395  | 14,843 | 500         | 1,082,229 |

- (1) No Further Action with Limited Action (Surface and Subsurface Clearance of OE Over a Selected Area to a Depth of One Foot).
- (2) No Further Action with Limited Action (Surface and Subsurface Clearance of OE Over a Selected Area to a Depth of Four Feet). selected area is the future storage barn (<0.5 acres)
- (3) Surface Clearance of OE and Subsurface Clearance of Selected Area to a Depth of Four Feet (includes Landfill 2).
- (4) No Further Action with Limited Action (Surface clearance of OE).
- (5) No Further Action with Limited Action (Surface clearance of OE and subsurface clearance to a depth of four feet) at Compost B.
- \* The selected removal alternatives are highlighted.

# SECTION G-2 COST ESTIMATE FOR THE PINE FARM

SELECTED REMOVAL ALTERNATIVE

# Pine Farm [Storage Barn Area]

# Alternative 1 - No Further Action with Limited Action (Surface and Subsurface Clearance of OE Over a Selected Area to a Depth of Four Feet)

Alternative 1 provides for a complete OE surface and subsurface clearance of the 0.5 acre area (area designated for future construction of a storage barn within the Pine Farm) to a depth of four feet. Because the surface clearance will be performed concurrently with the subsurface clearance, the cost for the surface clearance is included in the subsurface costs. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. It is assumed that no brush clearance is required in this area because available information indicates the area has recently been cleared of brush. During the Engineering Design effort, a number of production rates have been proportionally increased to account for this effort. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation present in grids, the survey production rate was held to 14 grids per day. The work is to be performed on privately owned property. A site restoration line item has been included in this estimate to account for funds to return the site to near original condition. Due to limited field scope and duration, a site visit and site trailer/office will not be necessary and has therefore been eliminated from this cost estimate.

Total Acreage to Surface Clear: 0.5 acre/2 grids (100' x 100')

Total Acreage Previously Geophysically Investigated: .20 acre

Adjusted acreage: .30 acre
Adjusted number of grids 2

Grids Requiring Brush Clearance 0 grids

Search Grid Size: 100' X 100' 0.22 acres per grid

Number of Grids requiring brush clearance:

Production Rates:

Brush Clearance (no brush clearance required)

Land Survey 14 grids per day per two person team (1 team)

Surface Clearance 5 grids per workday (.5 acres) per 5 person team (1 team).

Duration:

Project Management 5 working days/1.25 weeks

Brush Clearance None

Land Survey 3 working days/.75 week (one team)

Surface Clearance 5 working days/1.25 weeks (one five-person team)

Disposal Effort included in Surface Clearance
Quality Control 4 working days/1 week (2-person team)

Total Project Duration 5 working days/1.25 weeks

### NFA with Limited OE Surface & Subsurface Clearance of Selected Area to Four Feet - Alt 1

Corps of Engineers
Camp Croft, Spertenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Entire Storage Rem

| Future Storag                  | e Barn     |                          |                      |                 | Sumn             | nary               |           |
|--------------------------------|------------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Category                 |            | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |
| Program Management I           | 41,000,70  | 82.06                    |                      |                 |                  | 30.70              | 2,519.24  |
| Project Manager III            |            | 76.92                    |                      |                 |                  | 50.40              | 3,876.77  |
| Project Manager II             |            | 66.67                    |                      |                 |                  | 159.00             | 10,600.53 |
| Certified Industrial Hygienist | ang and Wa | 74.81                    |                      |                 |                  | 14.00              | 1,047.34  |
| Engineer II                    | 2 4,500    | 76.92                    |                      |                 |                  | 51.70              | 3,976.76  |
| Survey Manager                 |            | 56.42                    |                      |                 |                  | 96.60              | 5,450.17  |
| Surveyor V                     |            | 46.16                    |                      |                 |                  | 31.50              | 1,454.04  |
| ej njer Registio i u           |            | nikasak es elektri       |                      |                 |                  |                    |           |
| Quality Control Specialist     | Regular    | 47.04                    | <i>3</i> .           |                 |                  | 40.00              | 1,881.60  |
| Site Safety Officer            | Regutar    | 47.04                    | 000                  |                 |                  | 48.00              | 2,257.92  |
| UXO Supervisor/Tech VI         | Regular    | 53.29                    |                      |                 |                  | 96.00              | 5,115.84  |
| UXO Supervisor/Tech V          | Regular    | 47.04                    |                      |                 |                  | 50.00              | 2,352.00  |
| UXO Technician IV              | Regular    | 40.49                    |                      |                 |                  | 212.00             | 8,583.88  |
| UXO Technician III             | Regular    | 34.10                    | 1. 5. 6. 9.          |                 |                  | 76.00              | 2,591.60  |
| Laborer II                     | Regular    | 28.65                    |                      |                 |                  | •                  | •         |
|                                |            |                          |                      |                 |                  | -                  | •         |
| Subtotal -                     | Labor      |                          |                      |                 |                  | 955.90             | 51,707.69 |
|                                |            |                          |                      |                 |                  |                    |           |

| And the second of the second of the second |              | Londod         | A lease         | Nt mah          | ALCOHOLOGY S   | entropy, others of a |
|--|--------------|----------------|-----------------|-----------------|--|----------------------|
| Other Direct Costs                         |              | Loaded<br>Rate | Number<br>Weeks | Number<br>Units |  | Amount               |
| FM Radio, Handheld w/ charger              |              | 25.69          | ***CONO         | Orina           |  | 115.6                |
| FM Radio Repeater/Base Station             |              | 44.97          |                 |                 |  | 1,169,2              |
| Cellular Telephone and Service             |              | 64.24          |                 |                 |  | 417.5                |
| Video Camera                               |              | 32.12          |                 |                 |  | 208.7                |
| Computer                                   | 77           | 96.36          |                 |                 |  | 794.9                |
| Brushoutter, power                         |              | 96.36          |                 |                 |  | - 104.0.             |
| Chainsaw                                   | W . 100      | 64.24          |                 |                 |  | _                    |
| EOD Demokition Kill                        |              | 51.39          |                 |                 |  | 51.3                 |
| oester Ferrex Ordnance Locator             |              | 385.43         |                 |                 |  | J1.3.                |
| Schonstedt Magnetic Locator                |              | 51.39          |                 |                 |  | 552.4                |
| Explosive Storage magazine                 |              | 44.97          |                 |                 |  | 876.9                |
| Carrier Phase GPS                          |              | 899.35         |                 |                 | lada k   | 899.3                |
| Surveyor's Kit                             |              | 64.24          |                 |                 |  | 48.14                |
| otal Station Survey Equipment              |              | 835.11         |                 |                 |  | 835.1                |
| ord Explorer                               |              | 321.20         |                 |                 | n  | 963.60               |
| Pickup, 4x4, 3/4 Ton                       |              | 449.67         |                 |                 |  | 112.42               |
| Alr Fare - Round Trip                      |              | 1,220.54       |                 |                 |  | 9,764.32             |
| dileage                                    |              | 0.40           |                 |                 |  | 300.00               |
| uel  | 1000         | 1.74           |                 |                 |  | 318.42               |
| odging                                     |              | 68.09          |                 |                 |  | 3.064.0              |
| Meals and Incidentals                      |              | 38.55          |                 |                 |  | 1,773.30             |
| roject Consumables                         |              | 192.72         |                 |                 |  | 2.457.18             |
| Printing and Binding                       |              | 205.56         |                 |                 |  | 1,438.92             |
| Shipping                                   |              | 154.17         |                 |                 |  | 616.68               |
| Site Trailer                               |              | 963,59         |                 |                 |  | •                    |
| lectrical Hook Up                          | and Maria    | 1,927,17       |                 |                 |  | _                    |
| Magazine Fencing                           |              | 899.35         | 1440            |                 |  | 899.35               |
| Agazine Mobilization                       | N. Callerina | 770.87         |                 |                 |  | 770.87               |
| Donor Explosives                           |              | 1,541.74       |                 |                 | 2115 KG2 1   | 154.17               |
| Site Remediation - Pine Farm               | s to left    | 300.00         |                 |                 |  | 300,00               |
| Subtotal - Other Direct Costs              |              |                |                 | 2000            | 10<br>10<br>10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 28,902.81            |
|  |              |                |                 | -,555           |  |                      |
| Total Estimated Costs                      |              |                |                 |                 |  | 80,610.50            |

Corps of Engineers Camp Croft, Spertenburg, S.C. gineering Design Cost Estimate

Air Fare - Round Trip

Meals and Incidentals

**Project Consumables** 

Printing and Binding

Electrical Hook Up

Magazine Fencing

Donor Explosives

Mileage

Shipping Site Trailer

Fuel Lodging

| Engineering Design Cost Est     |         |                          |                      |                 |                  |                          |        |
|---------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------------|--------|
| Pine Farm - Clearance           |         |                          |                      |                 | Tasi             |                          |        |
| Future Storage                  | Bam     |                          |                      |                 | Site \           | / ISIT                   |        |
| Labor Category                  |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours       | Amount |
| Program Management I            |         | 82.06                    |                      | •               |                  |                          | _      |
| Project Manager III             |         | 76.92                    |                      |                 |                  | _                        |        |
| Project Manager II              |         | 66.67                    |                      | •               | _                |                          | _      |
| Certified Industrial Hygienist  |         | 74.81                    |                      |                 |                  |                          |        |
| Engineer It                     |         | 76.92                    |                      |                 |                  |                          | -      |
| Survey Manager                  |         | 56.42                    |                      |                 |                  |                          |        |
| Surveyor V                      |         | 46.16                    |                      |                 |                  |                          |        |
|                                 |         |                          |                      |                 |                  |                          | s      |
| Quality Control Specialist      | Regutar | 47.04                    |                      |                 |                  |                          |        |
| Site Safety Officer             | Regular | 47.04                    |                      |                 |                  | -                        | _      |
| UXO Supervisor/Tech VI          | Reguter | 53.29                    | -                    | -               | -                | -                        | -      |
| UXO Supervisor/Tech V           | Regular | 47.04                    |                      |                 |                  |                          |        |
| UXO Technician IV               | Regular | 40.49                    |                      |                 |                  | -                        | -      |
| UXO Technician III              | Regular | 34.10                    |                      |                 |                  | -                        | -      |
| Laborer II                      | Regular | 28.65                    |                      |                 |                  | -                        | •      |
|                                 |         | . ga 220 k s             |                      | ٠.              | 25.5             | •                        | •      |
| Subtotal - L                    | Labor   |                          |                      |                 |                  | -                        | -      |
|                                 |         |                          |                      |                 |                  |                          |        |
|                                 |         |                          |                      |                 |                  | <ul><li>(2) 88</li></ul> |        |
|                                 |         | Loaded                   |                      | Number          | Number           |                          |        |
| Other Direct Costs              |         | Rate                     |                      | Weeks           | Units            |                          | Amount |
| FM Radio, Handheld w/ charger   |         | 25.69                    |                      |                 |                  |                          | -      |
| FM Radio Repeater/Base Station  |         | 44.97                    |                      |                 |                  |                          | •      |
| Cellular Telephone and Service  |         | 64.24                    |                      |                 | -                | •                        | -      |
| Video Camera                    |         | 32.12                    |                      |                 |                  |                          | -      |
| Computer                        |         | 96.36                    |                      |                 |                  |                          | -      |
| Brushcutter, power              |         | 96.36                    |                      |                 |                  |                          | -      |
| Chainsaw                        |         | 64.24                    |                      |                 |                  |                          | _      |
| EOD Demolition Kit              |         | 51.39                    |                      |                 |                  |                          | -      |
| Foester Ferrex Ordnance Locator |         | 385.43                   |                      |                 | - 1              |                          | -      |
| Schonsledt Magnetic Locator     |         | 51.39                    |                      |                 | - 1              |                          | -      |
| Explosive Storage magazine      | 5275.   | 44.97                    |                      |                 | - 1              |                          | -      |
| Carrier Phase GPS               |         | 899.35                   |                      | •               | - 1              |                          | -      |
| Surveyor's Kil                  |         | 64.24                    |                      |                 |                  |                          | -      |
| Total Station Survey Equipment  |         | 835,11                   |                      |                 |                  |                          | -      |
| Ford Explorer                   |         | 321.20                   |                      | -               | - 1              | . Y. W.                  |        |
| Pickup, 4x4, 3/4 Ton            |         | 449.67                   |                      | -               | - 1              |                          |        |
| No France Down of Table         |         | 4000 51                  |                      | i .             |                  |                          |        |

1,220.54

0.40 1.74

68.09

38.55

192.72

205.56

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm - Clearance of GE Future Storage Barn

Task 2 Work Plan

| Leeded Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Houry   Part   Pa   | Future Storage             | Bam         |        |       |        | ١    | Nork Plan |           |
|--|----------------------------|-------------|--------|-------|--------|------|-----------|-----------|
| Program Management   | Labor Catagory             |             | Hourly | per   |        |      | _         | Amount    |
| Project Manager   II   |                            |             |        |       |        |      |           |           |
| Project Manager     66,67  | • •                        |             |        | 42.00 | 0.50   | 1.00 | •         | 1,001.01  |
| Certified Industrial Hygienist   | • •                        |             |        | 42.00 | 200    | 1.00 |           | 5,000.25  |
| Engineer ii 76.92 42.00 0.50 1.00 20.20 1.553.78 Survey Marrager 56.42 42.00 0.60 1.00 25.20 1.421.78 Surveyor V 46.18  Cuality Control Specialist Regular 47.04 Site Safely Officer Regular 47.04 UXO Supenvisor/Tech V Regular 47.04 UXO Supenvisor/Tech V Regular 47.04 UXO Supenvisor/Tech V Regular 47.04 UXO Supenvisor/Tech V Regular 40.49 UXO Technical III Regular 43.10 Laborer III Regular 34.10 Laborer III Regular 26.85  Subtotal - Labor 25.85  Subtotal - Labor 56.85  Citer Direct Costs Regular 48.97 Cellular Telephone and Service 44.97 Cellular Telephone and Service 56.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 86.36 Brushcutter, power 96.36 Brushcutter, powe |                            |             |        | _     |        |      |           | •         |
| Survey Manager   |                            |             |        |       |        |      |           | •         |
| Age    |                            |             | •      |       |        |      |           | -         |
| Quality Control Specialist   Regular   47.04   | • -                        |             |        | 7200  | 0.00   | 1.00 | -         | 1,421.10  |
| Quality Control Specialist   Regular   47.04   | Oditejo v                  |             | 40,10  |       |        |      |           |           |
| Site Safety Officer  | Quality Control Specialist | Regular     | 47.04  |       |        |      |           |           |
| UXO Supervisor/Tech V   Regular   47.04   47   | •                          |             | 47.04  |       |        |      | -         | •         |
| UNO Supervision/Tech V Regular 47.04 UNO Technician III Regular 34.10 Leborer III Regular 34.10 Leborer III Regular 26.65  Subtotal - Lebor    Loaded Number   Number | •                          |             |        | 40.00 | 1.00   | 1.00 | 38.00     | 1,918,44  |
| UXO Technician IV  |                            | •           | 47.04  |       |        |      | -         |           |
| UXO Technician III Regular 28.65  Subtotal - Labor  Loaded Number  |                            | -           | 40.49  |       |        |      | -         | -         |
| Leborer   I   Regular   28.65  | UXO Technician III         | •           | 34.10  |       |        |      | -         | -         |
| Content  | Laborer II                 | -           | 28.65  |       |        |      | •         | •         |
| Collect Costs  | the second                 |             |        |       |        |      |           | <u> </u>  |
| Content   Costs   Rate   Weeks   Units   Amount  | Subtotal - L               | .abor       |        |       |        |      | 190.60    | 12,599.20 |
| Cher Direct Costs  |                            |             |        |       |        |      |           |           |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service 64.24 Video Camera 32.12 Computer 98.36 Brushcutter, power 98.36 Brushcutter, p | Other Direct Costs         |             |        |       |        |      |           | Amount    |
| FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera 32:12 Computer 96:36 Brushcutter, power Chainsaw 64:24 EDD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Schonstedt Magnetic Locator Explosive Storage magazine 44:97 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Coarrier Phase GPS Surveyor's Kit 64:24 Coarrier Phase GPS Co |                            |             |        |       | 1100/3 | UIRS |           | Amount    |
| Cellular Telephone and Service Video Camera Video  |                            |             |        |       |        | ļ    |           | -         |
| Video Camera   32.12   | •                          |             |        |       |        |      |           | •         |
| Computer 98.36 1.00 1.00 98.36 Blushcutter, power 98.36  |                            |             |        |       |        |      |           | •         |
| State  |                            |             |        |       | 4.00   | 4.00 |           | 0636      |
| Chainsaw   | -                          |             |        |       | 1.00   | 1.00 |           | 80.30     |
| Foester Ferrex Ordnance Locator 385.43 - 385.43 - 58chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.39 - 52chonstedt Magnetic Locator 51.30  | • •                        |             |        |       |        |      |           | •         |
| Substitute   |                            |             |        |       |        |      |           | _         |
| Schonistedt Magnetic Locator   51.39   |                            |             |        |       |        |      |           | _         |
| Explosive Storage magazine   |                            |             |        |       |        |      |           | _         |
| Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Find Find Find Find Find Explorer Find Explorer Find Explorer Find Explorer Find Find Find Find Find Explorer Find Explorer Find Explorer Find Find Find Find Find Explorer Find Explorer Find Explorer Find Find Find Find Find Explorer Find Explore | <del>-</del>               |             | 9      |       |        |      |           | _         |
| Surveyor's Kil 64.24 Total Station Survey Equipment 835.11 Ford Explorer 321.20 1.00 1.00 321.20 Pickup, 4x4, 3/4 Ton 449.67 Alf Fare - Round Trip 1,220.54 1.00 1.00 1.20,54 Mileage 0.40 50.00 1.00 20.00 Fuel 1,74 1.00 40.00 69.60 Lodging 680.09 60.00 1.00 40.00 40.65 Meels and Incidentals 38.55 7.00 1.00 209.85 Project Consumables 192.72 8.00 1.00 1.541.76 Printing and Binding 205.56 1.00 2.00 411.12 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 4,358.97   |                            |             |        |       |        |      |           | _         |
| Total Station Survey Equipment   835.11  |                            |             |        |       |        |      | 77.5      | _         |
| Ford Explorer 321.20 1.00 1.00 321.20 Pickup, 4x4, 3/4 Ton 449.67  Alr Fare - Round Trip 1,220.54 1.00 1.00 1,220.54 Mileage 0,0.40 50.00 1.00 20.00 Fuel 1,74 1.00 40.00 69.60 Lodging 68.09 6.00 1.00 408.54 Meals and Incidentals 38.55 7.00 1.00 20.985 Project Consumables 192.72 8.00 1.00 1,541.76 Printing and Binding 205.56 1.00 2.00 411.12 Site Trailer 983.59 Electrical Hock Up 1,927.17 Magazine Mobilization 770.67 Donor Explosives 1,541.74 - Site Remediation - Pine Farm 300.00 4,358.97   | <u> </u>                   |             |        |       |        |      | **: *     | _         |
| Pickup, 4x4, 3/4 Ton  Alr Fare - Round Trip  1,220.54  Mileage  10.40  50.00  1.00  20.00  Fuel  1,74  1.00  40.00  89.60  Lodging  88.09  80.00  1.00  408.54  Meals and Incidentals  38.55  7.00  1.00  209.85  Project Consumables  192.72  8.00  1.00  209.85  Printing and Binding  205.56  1.00  2.00  411.12  Shipping  154.17  Shipping  154.17  Shite Trailer  1983.59  Electrical Hook Up  Magazine Fencing  Magazine Mobilization  Donor Explosives  Site Remediation - Pine Farm  Subtotal - Other Direct Costs  |                            |             | 9      |       | 1.00   | 1 00 |           | 321.20    |
| Alr Fare - Round Trip  Alicage  1,220.54  Mileage  0.40  50.00  1.00  20.00  Fuel  1,74  1.00  40.00  89.60  Lodging  68.09  8.00  1.00  408.54  Meats and Incidentals  38.55  7.00  1.00  269.85  Project Consumables  192.72  8.00  1.00  205.56  1.00  2.00  411.12  Shipping  154.17  Shipping  154.17   |                            |             | 9      |       | 1.00   | "    |           | OE 1.20   |
| Mileage 0.40 50.00 1.00 20.00 Fuel 1.74 1.00 40.00 69.60 Lodging 68.09 6.00 1.00 40.854 Meals and Incidentals 38.55 7.00 1.00 269.85 Project Consumables 192.72 8.00 1.00 1.541.76 Printing and Binding 205.56 1.00 2.00 411.12 Shipping 154.17 5181er 983.59 Electrical Hook Up 983.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.67 51541.74 5161   | • • • • •                  |             |        |       | 1.00   | 100  |           | 1 220 54  |
| Fuel 1.74 1.00 40.00 69.60 Lodging 88.09 8.00 1.00 408.54 Meals and Incidentals 38.55 7.00 1.00 269.85 Project Consumables 192.72 8.00 1.00 1.541.76 Printing and Binding 205.56 1.00 2.00 411.12 Shipping 154.17 581te Trailer 983.59 Electrical Hook Up 989.35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   | •                          |             | · ·    |       |        |      |           | •         |
| Meals and Incidentals       38.55       7.00       1.00       269.85         Project Consumables       192.72       8.00       1.00       1,541.76         Printing and Binding       205.56       1.00       2.00       411.12         Shipping       154.17       -       -         Site Trailer       983.59       -       -         Electrical Hook Up       1,927.17       -       -         Magazine Fencing       899.35       -       -         Magszine Mobilization       770.87       -       -         Donor Explosives       1,541.74       -       -         Site Remediation - Pine Farm       300.00       -       -         Subtotal - Other Direct Costs       4,358.97  | -                          |             |        |       |        |      |           |           |
| Meals and Incidentals       38.55       7.00       1.00       269.85         Project Consumables       192.72       8.00       1.00       1,541.76         Printing and Binding       205.56       1.00       2.00       411.12         Shipping       154.17       -       -         Site Trailer       983.59       -       -         Electrical Hook Up       1,927.17       -       -         Magazine Fencing       899.35       -       -         Magazine Mobilization       770.87       -       -         Donor Explosives       1,541.74       -       -         Site Remediation - Pine Farm       300.00       -       -         Subtotal - Other Direct Costs       4,358.97  |                            |             |        |       |        |      | 1500      |           |
| Printing and Binding       205.56       1.00       2.00       411.12         Shipping       154.17       -         Site Trailer       983.59       -         Electrical Hook Up       1,927.17       -         Magazine Fencing       899.35       -         Magszine Mobilization       770.87       -         Donor Explosives       1,541.74       -         Site Remediation - Pine Farm       300.00       -         Subtotal - Other Direct Costs       4,358.97   |                            |             | 38.55  |       | 7.00   | 1.00 |           | 269.85    |
| Printing and Binding       205.56       1.00       2.00       411.12         Shipping       154.17       -         Site Trailer       963.59       -       -         Electrical Hook Up       1,927.17       -       -         Magazine Fencing       899.35       -       -         Magszine Mobilization       770.87       -       -         Donor Explosives       1,541.74       -       -         Site Remediation - Pine Farm       300.00       -       4,358.97   | Project Consumables        |             | 192.72 |       | 8.00   | 1.00 | 4 44      | 1,541.76  |
| Site Trailer   983.59  |                            |             | 205.56 |       | 1.00   | 2.00 |           |           |
| Electrical Hook Up   | Shipping                   |             | 154.17 |       |        |      |           | •         |
| Electrical Hook Up   | Site Trailer               |             | 963.59 |       |        |      | 188 .     | •         |
| Magazine Mobilization   770.87   -   |                            |             |        |       |        |      |           | -         |
| Donor Explosives 1,541.74 - Site Remediation - Pine Farm 300.00 - Subtotal - Other Direct Costs 4,358.97   |                            |             |        |       |        |      |           | -         |
| Site Remediation - Pine Farm 300.00 - 4,358.97 Subtotal - Other Direct Costs 4,358.97  |                            |             |        |       |        |      |           | •         |
| Subtotal - Other Direct Costs 4,358.97   | •                          |             |        |       |        |      |           | •         |
|  |                            |             | 300.00 |       |        |      | rans i sa | •         |
| Total Estimated Costs16,958.17   | Subtotal - Other Direct C  | costs       |        |       |        |      |           | 4,358.97  |
|  | Total Estimated C          | costs et ac |        |       |        |      |           | 16,958.17 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE

Project Consumables

Printing and Binding

Electrical Hook Up

Magazine Fencing

**Donor Explosives** 

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

**Total Estimated Costs** 

Shipping

Site Trailer

| Engineering Design Cos   |   |          |       |        | T1-6   |                |           |
|--|---|----------|-------|--------|--------|----------------|-----------|
| Pine Farm - Cleara   |   |          |       |        | Task 3 | ='             |           |
| Future Stor  | rage Barn                               |          |       |        | ł      | Site Managemen | τ         |
|  |   | Loaded   | Hours |        |        | e- a. a. a     |           |
|  |   | Hourly   | per   | Number | Number | Estimated      | •         |
| Labor Category   |   | Rate     | Week  | Weeks  | People | Hours          | Amount    |
| Program Management I   |   | 82.06    |       |        |        | •              | •         |
| Project Manager III  |   | 76.92    | 41.00 | 1.25   | 1.00   | 50.40          | 3,876.77  |
| Project Manager II   |   | 66.67    |       |        |        | •              | •         |
| Certified Industrial Hygienist   |   | 74.81    |       |        |        | •              | •         |
| Engineer II  |   | 76.92    |       |        |        | •              | •         |
| Survey Manager   |   | 56.42    |       |        |        | -              | -         |
| Surveyor V   |   | 46.16    |       |        |        | _              | _         |
| ere e sa como de la co |   |          |       |        |        |                | 10/10/11  |
| Quality Control Specialist   | Regular                                 | 47.04    |       |        |        | •              | •         |
| Site Safety Officer  | Regular                                 | 47.04    | 40.00 | 1.20   | 1,00   | 48.00          | 2,257.92  |
| UXO Supervisor/Tech VI   | Regular                                 | 53,29    | 40.00 | 1.20   | 1.00   | 48.00          | 2,557.92  |
| UXO Supervisor/Tech V  | Regular                                 | 47.04    |       |        |        | -              | -         |
| UXO Technician IV  | Regutar                                 | 40.49    |       |        |        | •              | -         |
| UXO Technician III   | Regular                                 | 34.10    |       |        |        | -              | -         |
| Laborer II   | Regular                                 | 28.65    |       |        |        | •              | -         |
|  |   |          |       |        |        | •              | •         |
| Subtol   | al - Labor                              |          |       |        |        | 146.40         | 8,692.61  |
|  | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |          |       |        |        |                |           |
|  |   | Loaded   |       | Number | Number | • •            | . 111 111 |
| Other Direct Costs   |   | Rate     |       | Weeks  | Units  |                | Amount    |
|  | }                                       |          |       | 110003 | Olms . |                | - THOUSE  |
| FM Radio, Handheld w/ charger  |   | 25.69    |       | 2.50   | 4.00   |                | 4 400 00  |
| FM Radio Repeater/Base Station   |   | 44.97    |       | 6.50   | 4.00   |                | 1,169.22  |
| Cellular Telephone and Service   |   | 64.24    |       | 6.50   | 1.00   |                | 417.56    |
| Video Camera   |   | 32.12    |       | 6.50   | 1.00   |                | 208.78    |
| Computer   |   | 96.36    |       | 6.50   | 1.00   |                | 626,34    |
| Brushcutter, power   |   | 96.36    |       |        |        | * .            | -         |
| Chainsaw   | ** ***                                  | 64.24    |       |        |        |                | -         |
| EOD Demotition Kit   | AT SECTION                              | 51.39    |       |        |        |                | -         |
| Foester Ferrex Ordnance Locator  | and artific                             | 385.43   |       |        | :      |                | -         |
| Schonsledt Magnetic Locator  |   | 51.39    |       |        |        | ,              | •         |
| Explosive Storage magazine   |   | 44.97    |       | 6.50   | 3.00   |                | 876.92    |
| Carrier Phase GPS  |   | 899.35   |       |        |        |                | •         |
| Surveyor's Kil   |   | 64.24    |       |        |        |                | •         |
| Total Station Survey Equipment   |   | 835.11   |       |        |        |                | -         |
| Ford Explorer  |   | 321.20   |       |        |        |                | -         |
| Pickup, 4x4, 3/4 Ton   | .:                                      | 449.67   |       |        |        |                |           |
| Air Fare - Round Trip  |   | 1,220.54 |       | 1.00   | 3.00   |                | 3,661.62  |
| Mileage  |   | 0,40     |       | 500.00 | 1.00   |                | 200.00    |
| Fuel   |   | 1.74     |       | 35.00  | 1.00   |                | 60.90     |
| Lodging  |   | 68,09    |       | 5.00   | 2.00   |                | 680.90    |
| Meals and incidentals  |   | 38.55    |       | 5.00   | 2.00   |                | 385.50    |
| Broinet Consumebles  |   | 400 70 8 |       | 200    | 4 00 3 |                | ODE 44    |

192.72

205.56

154,17

963.59

1,927.17

699.35

770.87

1,541.74

300.00

200

200

1.00

1.00

1.00

1.00

1.00

3.00

1.00

1.00

1.00

1.00

385.44

411.12

462.51

899.35

770.87

11,217.03

19,909.64

NFA with Limited OE Surface & Subsurface CI
Corps of Engineers
Camp Croft, Spertenburg, S.C.
Engineer Croft Design Cost Estimate

| Pine Farm - Clearant           |         |                          |                      |                 |                        |                    |          |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------------|--------------------|----------|
| Future Store                   | ge Barn |                          |                      |                 |                        | Land Sun           | ray      |
| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People       | Estimated<br>Hours | Amount   |
| Program Management I           |         | 82.06                    |                      |                 | ·                      |                    |          |
| Project Manager III            |         | 76.92                    |                      |                 |                        | •                  | •        |
| Project Manager II             |         | 66,67                    |                      |                 |                        | -                  | -        |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                        | •                  | •        |
| Engineer II                    |         | 76.92                    |                      |                 |                        | •                  | -        |
| Survey Manager                 |         | 56.42                    | 42.00                | 0.70            | 1.00                   | 29.4               | 1,658.75 |
| Surveyor V                     |         | 46.16                    | 42.00                | 0.75            | 1.00                   | 31.5               | 1,454.04 |
|                                |         | Santalu III.             |                      |                 |                        |                    |          |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                        |                    | •        |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                        | •                  | -        |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                        | -                  |          |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                        | -                  | •        |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                        | _                  | •        |
| UXO Technician III             | Regular | 34.10                    | 40.00                | 0.85            | 1.00                   | 36.00              | 1,227.60 |
| Laborer II                     | Regular | 28.65                    |                      |                 |                        | -                  | -        |
| 41 + 7 BJY                     |         |                          |                      |                 | 117 - 67<br>11 - 17190 |                    |          |
| Subtotal                       | - Labor |                          |                      |                 |                        | 96.90              | 4,340.39 |
|                                |         |                          |                      |                 |                        |                    | . Zen    |
| Other Direct Costs             |         | Loaded<br>Rate           | ·                    | Number<br>Weeks | Number<br>Units        |                    | Amount   |
| FM Radio, Handheld w/ charger  |         | 25.69                    |                      | 0.75            | 2.00                   |                    | 38.54    |
| FM Radio Repeater/Base Station |         | 44.97                    |                      | 0.10            | 2.00                   |                    | 30.34    |
| Cellular Telephone and Service |         | 64.24                    |                      |                 |                        |                    | •        |
| Video Camera                   |         | 32.12                    |                      |                 |                        |                    | •        |
| Computer                       |         | 96.36                    |                      | 0.75            | 1.00                   |                    | 72.27    |
|                                |         | 80.30                    |                      | 0.10            | 1,40                   |                    | i LZi    |

|                                 |              | LUGIUOU  |   | HUILIDE | Number |           |
|---------------------------------|--------------|----------|---|---------|--------|-----------|
| Other Direct Costs              |              | Rate     |   | Weeks   | Units  | Amount    |
| FM Radio, Handheld w/ charger   |              | 25.69    |   | 0.75    | 2.00   | 38.54     |
| FM Radio Repeater/Base Station  |              | 44.97    |   |         |        |           |
| Cellular Telephone and Service  |              | 64.24    |   |         |        |           |
| Video Camera                    |              | 32.12    |   |         |        |           |
| Computer                        |              | 96.36    |   | 0.75    | 1,00   | 72.27     |
| Brushcutter, power              |              | 96.36    |   |         |        |           |
| Chainsaw                        |              | 64.24    |   |         |        |           |
| EOD Demolition Kit              |              | 51.39    |   |         |        |           |
| Foester Ferrex Ordnance Locator |              | 385.43   |   |         |        | -         |
| Schonstedl Magnetic Locator     |              | 51,39    |   | 0.75    | 1.00   | 38.54     |
| Explosive Storage magazine      |              | 44.97    |   |         |        | -         |
| Carrier Phase GPS               |              | 899.35   |   | 0.50    | 2.00   | 899.35    |
| Surveyor's Kit                  |              | 64.24    |   | 0.75    | 1.00   | 48.18     |
| Total Station Survey Equipment  |              | 835.11   |   | 1.00    | 1.00   | 835.11    |
| Ford Explorer                   |              | 321.20   |   | 1.00    | 1.00   | 321.20    |
| Pickup, 4x4, 3/4 Ton            |              | 449.67   |   |         |        | -         |
| Air Fare - Round Trip           |              | 1,220.54 |   | 1.00    | 2.00   | 2,441,08  |
| Mileage                         |              | 0.40     |   | 50.00   | 2.00   | 40.00     |
| Fuel                            |              | 1.74     |   | 32.00   | 1.00   | 55.68     |
| Lodging                         | energes in a | 68.09    |   | 3.00    | 2.00   | 408.54    |
| Meals and Incidentals           |              | 38.55    |   | 3.00    | 2.00   | 231.30    |
| Project Consumables             |              | 192.72   |   | 0.75    | 1,00   | 144.54    |
| Printing and Binding            |              | 205.56   |   | 1.00    | 1.00   | 205.56    |
| Shipping                        |              | 154.17   |   | 1.00    | 1.00   | 154.17    |
| Site Trailer                    |              | 963.59   |   |         |        | -         |
| Electrical Hook Up              |              | 1,927.17 |   |         |        |           |
| Magazine Fencing                |              | 699.35   |   |         |        |           |
| Magazine Mobilization           |              | 770.87   |   |         |        |           |
| Donor Explosives                |              | 1,541.74 |   |         |        | -         |
| Site Remediation - Pine Farm    |              | 300.00   | • |         |        | -         |
| Subtotal - Other Direct Co      | ets          |          |   |         |        | 5,934.06  |
|                                 |              |          |   |         |        | 212       |
| Total Estimated Co              | sts          |          |   |         |        | 10,274.45 |
|                                 | =            |          |   |         |        |           |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE

| Engineering Design Cost Estin  | rate    |        |       |        |        |              |        |
|--------------------------------|---------|--------|-------|--------|--------|--------------|--------|
| Pine Farm - Clearance of       |         |        |       |        | Task   | -            |        |
| Future Storage B               | lam     |        |       |        | Brus   | th Clearance |        |
|                                |         | Loaded | Hours |        |        |              |        |
|                                |         | Hourty | per   | Number | Number | Estimated    | Amount |
| Labor Category                 |         | Rate   | Week  | Weeks  | People | Hours        | Amount |
| Program Management I           |         | 82.06  |       |        |        | •            | •      |
| Project Manager III            |         | 76.92  |       |        |        | -            | -      |
| Project Manager II             |         | 66.67  |       |        |        | •            | •      |
| Certified Industrial Hygienist |         | 74.81  |       |        |        | •            | -      |
| Engineer II                    |         | 76.92  |       |        |        | •            | -      |
| Survey Manager                 |         | 56.42  |       |        |        | -            | -      |
| Surveyor V                     |         | 46,16  | .,    |        |        |              | _      |
|                                |         |        |       | 7      |        |              | 1867   |
| Quality Control Specialist     | Regular | 47.04  |       |        |        | •            | •      |
| Site Safety Officer            | Regular | 47.04  |       |        |        | •            | •      |
| UXO Supervisor/Tech VI         | Regular | 53.29  |       |        |        | •            | -      |
| UXO Supervisor/Tech V          | Regular | 47.04  |       |        |        | •            | -      |
| UXO Technician IV              | Regular | 40.49  | -     | •      |        | •            | -      |
| UXO Technician III             | Regular | 34.10  |       |        |        | -            |        |
| Laborer II                     | Regular | 28.65  | -     | -      | -      | -            | •      |
| water and a second             |         |        |       |        |        | .5           |        |
| Subtotal - La                  | bor     |        |       |        |        | -            |        |
| W.,                            |         | 3320   |       |        |        |              |        |
|                                |         |        |       |        |        |              |        |
| •                              |         | Loaded |       | Number | Number |              |        |
| Other Direct Costs             |         | Rate   |       | Weeks  | Units  |              | Amount |
| FM Radio, Handheld w/ charger  |         | 25.69  |       | •      | •      |              |        |
| FM Radio Repeater/Base Station |         | 44.97  |       |        |        |              | -      |
| Cellular Telephone and Service |         | 64.24  |       |        |        |              | -      |
| Video Camera                   |         | 32.12  |       |        |        |              | -      |
| Computer                       |         | 96.36  |       |        |        |              | •      |
| Brushcutter, power             |         | 96.36  |       | -      | - 1    |              | -      |
| Chainsew                       |         | 64.24  |       |        |        |              | •      |
| EOD Demolition Vit             |         | 64.00  |       |        | 1      |              |        |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of GE
Future Storage Barn

Task 6 Surface OE Removal

| Project Manager  | Future Storage B               | am      |       |       |         | Surface OE | Removal |             |
|--|--------------------------------|---------|-------|-------|---------|------------|---------|-------------|
| Labor Category   |                                |         |       | Hours |         |            |         |             |
| Program Maragement   |                                |         | •     | •     |         |            |         |             |
| Project Manager  | Labor Category                 |         | Rate  | Week  | Weeks   | People     | Hours   | Amount      |
| Project Manager  | Program Management I           |         |       |       |         |            | -       | -           |
| Certified Industrial Hygientel   74.81   78.92   | Project Manager III            |         | 76.92 |       |         |            | -       | •           |
| Engineer II  |                                |         | 66.67 |       |         |            | •       | -           |
| Survey Manager   | Certified Industrial Hygienist |         | 74.81 |       |         |            | •       | •           |
| Surveyor V   | Engineer II                    |         | 76.92 |       |         |            | •       | •           |
| Cluelity Control Specialist  | Survey Manager                 |         | 56.42 |       |         |            | -       | -           |
| Cuality Control Specialist   Regular   47.04   | Surveyor V                     |         | 46.16 |       |         |            | -       | -           |
| Site Safety Officer  |                                |         |       |       |         |            |         | Software    |
| UXO Supervisor/Tech VI Regular 53.29 UXO Supervisor/Tech VI Regular 47.04 40.00 1.25 1.00 50.00 2,352.00 UXO Technician IV Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 34.10 Laborer II Regular 14.10 Laborer I | Quality Control Specialist     | Regular |       |       |         |            | •       | -           |
| UXO Supervisor/Tech V Reguler 47.04 40.00 1.25 1.00 50.00 2,382.00 UXO Technician III Regular 34.10 Regular 34.10 Regular 28.65  | Site Safety Officer            | Regular | 47.04 |       |         |            | •       | -           |
| UXO Technician IV Regular 40.49 40.00 1.25 4.00 200.00 8,088.00 UXO Technician III Regular 34.10   | UXO Supervisor/Tech VI         | Regular | 53.29 |       |         |            | •       | •           |
| Subtotal   Labor   Subtotal      | UXO Supervisor/Tech V          | Regular | 47.04 | 40.00 |         | 1.00       |         | 2,352.00    |
| Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Consumable   Su   | UXO Technician IV              | Regular | 40.49 | 40.00 | 1.25    | 4.00       | 200.00  | 8,098.00    |
| Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor  | UXO Technician III             | Regular | 34.10 |       |         |            | •       | -           |
| Cither Direct Costs  | Laborer II                     | Regular | 28.65 |       |         |            | -       | -           |
| Cither Direct Costs  |                                |         |       |       |         |            |         | <del></del> |
| College   Costs   Co   | Subtotal - La                  | bor     |       |       |         |            | 250.00  | 10,450,00   |
| College   Costs   Co   |                                |         |       |       |         |            |         |             |
| Cither Direct Costs  |                                |         |       |       | Manakas | NA         |         |             |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellutar Telephone and Service Video Carmera 22.12 Computer Substitution Substitution Cellutar Telephone and Service Video Carmera 22.12 Computer 96.36 Brushoutter, power 96.36 Brushoutter, power 96.36 Brushoutter, power 96.36 Fusionate Augustic Locator 96.36 Foester Ferrex Ordnance Locator 96.37 Stationated Magnetic Locator 97.39 1.00 1.00 97.39 1.00 98.00 411.12 Foeder Ferrex Ordnance Locator 98.35 Surveyor's kit 98.30 Surveyor's kit 98.30 Survey | Other Direct Conte             |         |       |       |         |            |         | Amount      |
| FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera 32.12 Computer 96.36 Brushoutter, power Chainsaw 64.24 EDD Demolition Kit 51.39 1.00 1.00 51.39 Foester Ferrex Orchance Locator Schonstedi Magnetic Locator Schonstedi Magnetic Locator Schonstedi Magnetic Locator Subriser Storage magazine 44.97 Carrier Phase GPS Surveyor's Kit 64.24 Total Station Survey Equipment Ford Explorer 321.20 Alf Fare - Round Trip Mileege 0.40 Alf Fare - Round Trip 1.220.54 Mileege 0.40 Lodging 68.09 3.00 5.00 578.25 Project Consumables Project Consumables Project Consumables Project Consumables Prieting and Binding Site Trailer Site Trailer Plant Farm Magazine Mobilization T70.87 Donor Explosives 1,541.74 0.50 0.20 1.54.17 Site Remediation - Pine Farm Subtotal - Other Direct Costs  2.267.66  |                                |         |       |       |         |            | •       |             |
| Cellutar Telephone and Service   |                                |         |       |       | 1.00    | 200        |         | 51.38       |
| Video Carmera   32.12  | <u>-</u> "                     |         |       |       |         |            |         | •           |
| Computer   96.36   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Chainsaw   64.24   Carrier Phase GPS   64.24   Carrier Phase GPS   64.24   Carrier Phase GPS   64.24   Carrier Phase GPS   Carrier Phase GPS   64.24   Chainsaw   6   | •                              |         |       |       |         |            |         | •           |
| Stushcutter, power   |                                |         |       |       |         |            |         | •           |
| Chainsaw   64.24   |                                |         |       |       |         |            | 14      | •           |
| EOD Demolition Kit   51.39   1.00   1.00   51.39   5.00    |                                |         |       |       |         |            |         | •           |
| Schonsted   Megnetic Locator   September   Schonsted   Megnetic Locator   September   Se   |                                |         |       |       | 4 00    | 4.00       |         | 54.00       |
| Schonstedt Magnetic Locator   51.39   1.00   8.00   411.12   |                                |         |       |       | 1.00    | 1.00       |         | 31.39       |
| Additional Comment   Additio   |                                |         |       |       | 4.00    |            |         | 444.40      |
| Carrier Phase GPS Surveyor's Kit Ford Explorer Ford Explorer Fickup, 4x4, 3/4 Ton Alr Fare - Round Trip Alr Fare - Round Trip Alr Gege Fuel Lodging Ges on Surveyor's Size of  | _                              |         |       |       | 1.00    | 0.00       |         | 411.12      |
| Surveyor's Kit Total Station Survey Equipment Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton Air Fare - Round Trip 1,220.54 Mileage Puel 1,74 Lodging Meals and Incidentals Project Consumables Project Consumables Project Consumables Project Tonsumables |                                |         |       |       |         |            |         | •           |
| Total Station Survey Equipment   835.11  |                                |         |       |       |         |            | N       | •           |
| Ford Explorer 321.20   | •                              |         |       |       |         |            |         | •           |
| Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip 1,220.54 Mileage Fuel 1,74 Lodging 68.09 3.00 5.00 1,021.35 Meals and Incidentals 770.87 Printing and Binding 154.17 Site Remediation - Pine Farm Subtotal - Other Direct Costs  449.67 1,220.54  | - · · ·                        |         |       |       |         |            |         | -           |
| Air Fare - Round Trip  Air Fare - Round Trip  Air Fare - Round Trip  Air Fare - Round Trip  Air Fare - Round Trip  Air Fare - Round Trip  1,220.54  - 0.40  - 1.74  - 1.74  - 1.74  - 1.74  - 1.74  - 1.74  - 1.75  -  | •                              |         |       |       |         |            |         | •           |
| Mileege       0.40         Fuel       1.74         Lodging       68.09       3.00       5.00       1,021.35         Meals and incidentals       38.55       3.00       5.00       578.25         Project Consumables       192.72       -       -         Printing and Binding       205.68       -       -         Shipping       154.17       -       -         Site Trailer       963.59       -       -         Electrical Hook Up       1,927.17       -       -         Magazine Fencing       899.35       -       -         Magazine Mobilization       770.87       -       -         Donor Explosives       1,541.74       0.50       0.20       154.17         Site Remediation - Pine Farm       300.00       -       -       -         Subtotal - Other Direct Costs       2,267.66       -       -       -   | • • •                          | 27.12   |       |       |         |            |         | •           |
| Fuel 1.74  |                                |         |       |       |         |            |         | -           |
| Academic   | _                              |         |       |       |         |            |         | -           |
| Meals and Incidentals       38.55       3.00       5.00       578.25         Project Consumables       192.72       -       -       -         Printing and Binding       205.58       -       -       -         Shipping       154.17       -       -       -         Site Trailer       963.59       -       -       -         Electrical Hook Up       1,927.17       -       -       -         Magazine Fencing       899.35       -       -       -         Magazine Mobilization       770.87       -       -       -         Donor Explosives       1,541.74       0.50       0.20       154.17         Sile Remediation - Pine Farm       300.00       -       -       -         Subtotal - Other Direct Costs       2,267.66       -       -       -   |                                |         |       |       | 3.00    | 5.00       |         | 1 021 35    |
| Project Consumables         192.72         -           Printing and Binding         205.58         -           Shipping         154.17         -           Site Trailer         983.59         -           Electrical Hook Up         1,927.17         -           Magazine Fencing         899.35         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         0.50         0.20         154.17           Site Remediation - Pine Farm         300.00         -         -         -           Subtotal - Other Direct Costs         2,267.66         -         -  | • •                            |         |       |       |         |            |         | •           |
| Printing and Binding 205.58 - Shipping 154.17 - Site Trailer 963.59 - Electrical Hook Up 1,927.17 - Magazine Fencing 899.35 - Magazine Mobilization 770.87 - Donor Explosives 1,541.74 0.50 0.20 154.17 Site Remediation - Pine Farm 300.00 - Subtotal - Other Direct Costs 2,267.66   |                                |         |       |       | 3.00    | 3.00       |         | J10.23      |
| Shipping   |                                |         |       |       |         |            |         | -           |
| Site Trailer   |                                |         |       |       |         |            |         | -           |
| Electrical Hook Up   |                                |         |       |       |         |            |         | _           |
| Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74       0.50       0.20       154.17         Site Remediation - Pine Farm       300.00       -         Subtotal - Other Direct Costs       2,267.66   |                                |         |       |       |         |            |         |             |
| Associate Mobilization   770.87  |                                |         |       |       |         |            |         | _           |
| Donor Explosives         1,541.74         0.50         0.20         154.17           Site Remediation - Pine Farm         300.00         -         -           Subtotal - Other Direct Costs         2,267.66         -  |                                |         |       |       |         | 1          |         |             |
| Site Remediation - Pine Farm 300.00  |                                |         |       |       | 0.50    | 0.20       |         | 154.17      |
| Subtotal - Other Direct Costs 2,267.66   | Site Remediation - Pine Farm   |         |       |       |         | /          |         | -           |
|  |                                | sts     |       |       |         |            |         | 2,267.66    |
| Total Estimated Costs 12.717.66  |                                |         |       |       |         |            |         |             |
|  | Total Estimated Co             | ests    |       |       |         |            |         | 12,717.66   |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of CE
Future Storage Barn

Task 7 Scrap Turn-In

| Future Storage E                                  | 3am          |                |       |        | Scrap T | um-in     |                 |
|---|--------------|----------------|-------|--------|---------|-----------|-----------------|
|   |              | Loaded         | Hours |        |         |           |                 |
| 1-1   |              | Hourly         | per   | Number | Number  | Estimated |                 |
| Labor Category                                    | <del> </del> | Rate           | Week  | Weeks  | People  | Hours     | Amount          |
| Program Management I                              |              | 82.06          |       |        |         | •         | -               |
| Project Manager III                               |              | 76.92<br>66.67 |       |        |         | <u>-</u>  | -               |
| Project Manager II Certified Industrial Hygienist |              | 74.81          |       |        |         | •         | -               |
|   |              | 76.92          |       |        |         | •         | -               |
| Engineer II                                       |              | 56.42          |       |        |         | -         | -               |
| Survey Manager                                    |              | 46.16          |       |        |         | -         | -               |
| Surveyor V  |              | 40.10          |       |        |         | ·         |                 |
| Quality Control Specialist                        | Regular      | 47.04          |       |        | • •     |           |                 |
| Site Safety Officer                               | Regular      | 47.04          |       |        |         |           | _               |
| UXO Supervisor/Tech VI                            | Regular      | 53.29          | 40.00 | 0.25   | 1.00    | 12.00     | 639.48          |
| UXO Supervisor/Tech V                             | Regular      | 47.04          | 40.00 | 0.23   | 1.00    | 1200      | -               |
| UXO Technician IV                                 | Regular      | 40.49          | 40.00 | 0.25   | 1.00    | 12.00     | 485.68          |
| UXO Technician III                                | Regular      | 34.10          | 40.00 | 0.23   | 1.00    | 12.00     | 403.00          |
| Laborer II  | Regular      | 28.65          |       |        |         | _         | _               |
| Laborerii   | Nogulai      | 20.00          |       |        |         |           | -               |
| Subtotal - La                                     | bor.         |                |       |        |         | 24.00     | 1,125.36        |
|   |              |                |       |        |         |           | a postos. Ne    |
|   | - Y' :       |                |       |        |         |           |                 |
|   |              | Loaded         |       | Number | Number  |           |                 |
| Other Direct Costs                                |              | Rate           |       | Weeks  | Units   |           | Amount          |
| FM Radio, Handheld w/ charger                     |              | 25.69          |       |        |         | 2.1.1     | •               |
| FM Radio Repeater/Base Station                    |              | 44.97          |       |        |         |           | -               |
| Cellutar Telephone and Service                    |              | 64.24          |       |        | j       |           | -               |
| Video Camera                                      |              | 32.12          |       |        |         |           | -               |
| Computer  |              | 96.36          |       |        |         |           | -               |
| Brushoutter, power                                |              | 96.36          |       |        |         |           | -               |
| Chainsaw  |              | 84.24          |       |        |         |           | -               |
| EOD Demolition Kit                                |              | 51.39          |       |        |         |           | -               |
| Foester Ferrex Ordnance Locator                   |              | 385.43         |       |        |         |           | •               |
| Schonstedt Magnetic Locator                       |              | 51.39          |       |        |         |           | •               |
| Explosive Storage magazine                        |              | 44.97          |       |        |         |           | -               |
| Carrier Phase GPS                                 |              | 899.35         |       |        |         |           | •               |
| Surveyor's Kil                                    |              | 64.24          |       |        |         |           | -               |
| Total Station Survey Equipment                    |              | 835.11         |       |        |         |           | -               |
| Ford Explorer                                     |              | 321.20         |       |        |         |           | -               |
| Pickup, 4x4, 3/4 Ton                              |              | 449.67         |       | 1.00   | 0.25    |           | 112.42          |
| Air Fare - Round Trip                             |              | 1,220.54       |       |        |         |           | -               |
| Mileage   |              | 0.40           |       |        |         |           | -               |
| Fuel  | 11.          | 1.74           |       | 6.00   | 1.00    |           | 10,44           |
| _odging   |              | 68.09          |       | 1.00   | 2.00    |           | 136,18          |
| Meals and Incidentals                             |              | 38.55          |       | 1.00   | 200     | 4.4       | 77.10           |
| Project Consumables                               |              | 192.72         |       | 1.00   | 1.00    |           | 1 <b>92.7</b> 2 |
| Printing and Binding                              |              | 205.56         |       |        |         |           | -               |
| Shipping  | 100          | 154.17         |       |        |         |           | -               |
| Site Trailor                                      |              | 983.59         |       |        |         |           | -               |
| Electrical Hook Up                                |              | 1,927.17       |       |        |         |           | -               |
| Magazine Fencing                                  |              | 899.35         |       |        |         |           | •               |
| Magazine Mobilization                             |              | 770.87         |       |        | ł       |           | -               |
| Donor Explosives                                  |              | 1,541.74       |       |        |         |           | -               |
| Site Remediation - Pine Farm                      |              | 300.00         |       |        |         |           |                 |
| Subtotal - Other Direct Co                        | 513          |                |       |        |         |           | 528.86          |
| Total Estimated Co                                | ete .        |                |       |        |         |           | 1.654.00        |
| roter Estimated Co                                | and a        |                |       | ÷      |         |           | 1,654.22        |
|   |              |                |       |        |         |           |                 |

Corps of Engineers Camp Croft, Spartenburg, S.C.

**Project Consumables** 

Printing and Binding

Electrical Hook Up

Magazine Fencing

**Donor Explosives** 

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

**Total Estimated Costs** 

Shipping

Site Trailer

| Engineering Design Cost Est<br>Pine Farm - Clearance<br>Future Storage | of OE   |                          | Task 8<br>Quality Control |                 |                  |                    |                  |  |  |  |
|--|---------|--------------------------|---------------------------|-----------------|------------------|--------------------|------------------|--|--|--|
| Labor Category   | Con     | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week      | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount           |  |  |  |
| Program Management I   |         | 82.06                    |                           |                 |                  | -                  |                  |  |  |  |
| Project Manager III  |         | 76.92                    |                           |                 |                  | -                  | -                |  |  |  |
| Project Manager II   |         | 66.67                    |                           |                 |                  | -                  | -                |  |  |  |
| Certified Industrial Hygienist   |         | 74.81                    |                           |                 |                  | -                  | -                |  |  |  |
| Engineer II  |         | 76.92                    |                           |                 |                  | -                  | -                |  |  |  |
| Survey Manager   |         | 56.42                    |                           |                 |                  | •                  | -                |  |  |  |
| Surveyor V   |         | 46.16                    |                           |                 |                  | •                  | •                |  |  |  |
|  |         | renan y                  |                           |                 |                  |                    |                  |  |  |  |
| Quality Control Specialist   | Regular | 47.04                    | 40.00                     | 1.00            | 1.00             | 40.00              | 1,881.60         |  |  |  |
| Site Safety Officer  | Regular | 47.04                    |                           |                 |                  | •                  | -                |  |  |  |
| UXO Supervisor/Tech VI   | Regular | 53.29                    |                           |                 |                  | -                  | _                |  |  |  |
| UXO Supervisor/Tech V  | Regular | 47.04                    |                           |                 |                  | •                  | •                |  |  |  |
| UXO Technician IV  | Regular | 40.49                    |                           |                 |                  | -                  | •                |  |  |  |
| UXO Technician III   | Regular | 34.10                    | 40.00                     | 1.00            | 1.00             | 40.00              | 1,364.00         |  |  |  |
| Laborer II   | Regular | 28.65                    |                           |                 |                  | •                  | •                |  |  |  |
| N :  |         |                          |                           |                 |                  | _                  | <b>.</b>         |  |  |  |
| Subtotal - I   | abor    |                          |                           |                 |                  | 80.00              | 3,245.60         |  |  |  |
|  |         |                          |                           |                 |                  |                    | . i e<br>. je 14 |  |  |  |
|  |         | Loaded                   |                           | Number          | Number           |                    |                  |  |  |  |
| Other Direct Costs   |         | Rate                     |                           | Weeks           | Units            |                    | Amount           |  |  |  |
| FM Radio, Handheld w/ charger  |         | 25.69                    |                           | 1.00            | 1.00             |                    | 25.69            |  |  |  |
| FM Radio Repeater/Base Station   |         | 44.97                    |                           |                 |                  |                    | -                |  |  |  |
| Cellular Telephone and Service   | :       | 64,24                    |                           |                 |                  |                    | -                |  |  |  |
| Video Camera   |         | 32.12                    |                           |                 |                  |                    | -                |  |  |  |
| Computer   |         | 96.36                    |                           |                 |                  |                    | -                |  |  |  |
| Brushcutter, power   |         | 96,36                    |                           |                 |                  |                    | -                |  |  |  |
| Chainsaw   |         | 64.24                    |                           |                 |                  |                    | -                |  |  |  |
| EOD Demolition Kit   |         | 51.39                    |                           |                 |                  |                    | -                |  |  |  |
| Foester Ferrex Ordnance Locator  |         | 385.43                   |                           |                 |                  |                    | •                |  |  |  |
| Schonstedt Magnetic Locator  |         | 51.39                    |                           | 1.00            | 2.00             |                    | 102.78           |  |  |  |
| Explosive Storage magazine   |         | 44.97                    |                           |                 |                  |                    |                  |  |  |  |
| Carrier Phase GPS  |         | 899.35                   |                           |                 |                  | ***                | _                |  |  |  |
| Surveyor's Kit   |         | 64.24                    |                           |                 |                  |                    |                  |  |  |  |
| Total Station Survey Equipment   |         | 835.11                   |                           |                 |                  |                    |                  |  |  |  |
| Ford Explorer  |         | 321.20                   |                           | 1.00            | 1.00             |                    | 321.20           |  |  |  |
| Pickup, 4x4, 3/4 Ton   |         | 449.67                   |                           |                 |                  |                    |                  |  |  |  |
| Air Fare - Round Trip  |         | 1,220,54                 |                           | 1.00            | 2.00             |                    | 2,441.08         |  |  |  |
| Mileage  |         | 0.40                     |                           | 50.00           | 2.00             |                    | 40.00            |  |  |  |
| Fuel   |         | 1.74                     |                           | 35.00           | 2.00             |                    | 121.80           |  |  |  |
| odging .   |         | 68.09                    |                           | 3.00            | 2.00             |                    | 408.54           |  |  |  |
| Meals and Incidentals  |         | 38.55                    |                           | 3,00            | 2.00             |                    | 231.30           |  |  |  |
| Desired Communication  |         | 400.70                   |                           | 4.45            | 7.1.             |                    |                  |  |  |  |

192.72

205.56

154.17

963.59

1,927.17

899.35

770.87

1,541.74

300.00

1.00

1.00

192.72

3,885.11

7,130.71

Corps of Engineers Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OF

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

Total Estimated Costs

Donor Explosives

| Pine Farm - Clearance                         |                               |                  |              |              | Tasi<br>Cinc.l C |           |           |  |
|---|-------------------------------|------------------|--------------|--------------|------------------|-----------|-----------|--|
| Future Storage                                | Future Storage Barn<br>Loaded |                  |              | Final Report |                  |           |           |  |
|   |                               | Hourty           | Hours<br>per | Number       | Number           | Estimated |           |  |
| Labor Category                                |                               | Rate             | Week         | Weeks        | People           | Hours     | Amount    |  |
| Program Management I                          |                               | 82.06            | 42.00        | 0.25         | 1.00             | 10.50     | 861.63    |  |
| Project Manager III                           |                               | 76.92            |              |              |                  | •         | •         |  |
| Project Manager If                            |                               | 66.67            | 42.00        | 2.00         | 1.00             | 84.00     | 5,600,28  |  |
| Certified Industrial Hygienist                |                               | 74.81            |              |              |                  | •         | •         |  |
| Engineer II                                   |                               | 76.92            | 42.00        | 0.75         | 1.00             | 31.50     | 2,422,98  |  |
| Survey Manager                                |                               | 56.42            | 42.00        | 1.00         | 1.00             | 42.00     | 2,369.64  |  |
| Surveyor V                                    |                               | 46.16            |              |              |                  | -         | -,        |  |
|   |                               |                  |              |              |                  |           |           |  |
| Quality Control Specialist                    | Regular                       | 47.04            |              |              |                  |           |           |  |
| Site Safety Officer                           | Regular                       | 47.04            |              |              |                  | -         | _         |  |
| UXO Supervisor/Tech VI                        | Regular                       | 53.29            |              |              |                  | _         | _         |  |
| UXO Supervisor/Tech V                         | Regular                       | 47.04            |              |              |                  |           |           |  |
| UXO Technician IV                             | Regular                       | 40.49            |              |              |                  | _         | _         |  |
| UXO Technician III                            | Regular                       | 34.10            |              |              |                  | _         | _         |  |
| Laborer II                                    | Regular                       | 28.65            |              |              |                  | _         | ·<br>-    |  |
|   | 11090101                      | 25.00            |              |              |                  | _         |           |  |
| Subtotal - L                                  | abor                          |                  |              |              |                  | 168.00    | 11,254.53 |  |
| ***************************************       |                               |                  |              |              |                  |           |           |  |
|   |                               |                  |              |              |                  |           |           |  |
|   |                               | Loaded           |              | Number       | Number           |           |           |  |
| Other Direct Costs                            |                               | Rate             |              | Weeks        | Units            |           | Amount    |  |
| FM Radio, Handheld w/ charger                 |                               | 25.69            |              |              |                  | i         |           |  |
| FM Radio Repeater/Base Station                |                               | 44.97            |              |              |                  |           | -         |  |
| Cellular Telephone and Service                |                               | 64.24            |              |              |                  |           |           |  |
| Video Camera                                  |                               | 32.12            |              |              |                  |           | •         |  |
| Computer                                      |                               | 96.36            |              |              |                  |           | -         |  |
| Brushcutter, power                            |                               | 96.36            |              |              |                  |           | -         |  |
| Chainsaw                                      |                               | 64.24            |              |              |                  |           | -         |  |
| EOD Demolition Kit                            |                               | 51,39            |              |              |                  |           | •         |  |
| Foester Ferrex Ordnance Locator               |                               | 385,43           |              |              | -                |           | •         |  |
| Schonstedt Magnetic Locator                   |                               | 51.39            |              |              | Ì                |           | •         |  |
| Explosive Storage magazine                    |                               |                  |              |              |                  |           | -         |  |
| Carrier Phase GPS                             |                               | 44.97            |              |              |                  |           | -         |  |
| Surveyor's Kit                                |                               | 899.35           |              |              |                  |           | -         |  |
| Total Station Survey Equipment                |                               | 64.24            |              |              |                  |           | -         |  |
| Ford Explorer                                 |                               | 835,11           |              |              |                  |           | •         |  |
| •   |                               | 321.20           |              |              |                  |           | •         |  |
| Pickup, 4x4, 3/4 Ton<br>Air Fare - Round Trip |                               | 449.67           |              |              |                  |           | -         |  |
| •   |                               | 1,220.54         |              |              |                  | 20        | -         |  |
| Mileage<br>Fuel                               |                               | 0.40             |              |              | j                |           | -         |  |
|   |                               | 1.74             |              |              |                  |           | -         |  |
| Lodging<br>Meals and Incidentals              |                               | 68.09            |              |              | 1                |           | -         |  |
|   |                               | 38.55            |              |              |                  |           | •         |  |
| Project Consumables                           |                               | 192.72           |              |              |                  |           | *         |  |
| Printing and Binding                          |                               | 205.56           |              | 1.00         | 2.00             |           | 411.12    |  |
| Shipping<br>Site Testes                       |                               | 154.17           |              |              |                  |           | -         |  |
| Site Trailer                                  |                               | 963.59           |              |              |                  |           | •         |  |
| Electrical Hook Up                            | <i>*</i> .                    | 1,927.17         |              |              |                  |           | -         |  |
| Magazine Fencing                              |                               | 899.35<br>770.87 |              |              |                  |           | -         |  |
| americane Michillerusch                       |                               | /ms/7            |              |              |                  |           |           |  |

770.87

1,541.74

300.00

411.12

11,665.65

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE

Task 10 Site Pestoration

| Labor Category   |  | noe Dom   |          |          |        | Cita Day | k IV         |          |
|--|--|-----------|----------|----------|--------|----------|--------------|----------|
| Labor Category   | ruide Side   | aye Daili | Landad   | Marra    |        | ORE RES  | ROMMON       |          |
| Labor Category   |  |           |          |          | Mambar | Marekar  | Cationates   |          |
| Project Manager III  | Lebet Category   |           |          | -        |        |          |              | å mannt  |
| Project Manager  |  |           |          | TTOOK    | 110013 | reopie   | nours        | Amount   |
| Project Manager  |  |           |          |          |        |          | -            | -        |
| Certified Industrial Hygenist  | . •  |           |          |          |        |          | •            | -        |
| Engineer II  |  |           |          |          |        |          | •            | -        |
| Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Add   Surveyor V   Sugular   47,04   Supervisor V   Sugular   47,04   Supervisor V   Sugular   47,04   Supervisor V   Sugular   47,04   Supervisor V   Sugular   40,49   Supervisor V   Sugular   40,49   Supervisor V   Supervisor V   Sugular   34,10   Subor V   Supervisor V   Su   |  |           |          |          |        |          | •            | -        |
| Surveyor V   | <b>— —</b>   |           |          |          |        |          | •            | -        |
| Custify Control Specialist   Regular   47.04   |  |           |          |          |        |          | •            | •        |
| Cuality Control Specialist   Regular   47.04   | MARKET PARTIES AND ADDRESS OF THE PARTIES AND AD |           | 46.16    |          |        |          | -            | -        |
| Site Safety Officer  |  |           |          |          | •      |          |              |          |
| UXO Supervisor/Tech V  |  |           |          |          |        |          | •            | -        |
| UXO Supervisor/Tech V  | Site Salety Unicer   | _         |          |          |        |          |              | -        |
| UXO Technician IV  |  | _         |          |          |        |          | •            | •        |
| UXO Technician III   |  | •         |          |          |        |          | •            | •        |
| Laborer     Regular   28.65   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Cole   Subtota   |  |           |          |          |        |          | •            | •        |
| Subtotal - Labor   Subtotal - Labor  |  |           |          |          |        |          | -            | •        |
| Collect Direct Costs   |  | Regular   | 28.65    |          |        |          | <del>-</del> | •        |
| Computer   Continue   Computer    |  |           |          |          |        |          | -            | <u> </u> |
| Computer   Constitution   Computer   Constitution   Computer   C   | Subtota  | I - Labor |          |          |        |          | -            | •        |
| Computer   Constitution   Computer   Constitution   Computer   C   | 1 540 945  |           |          |          |        |          |              | 7        |
| Other Direct Costs         Rate         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         -         -           FM Radio Repeater/Base Station         44.97         -         -           Cellular Telephone and Service         64.24         -         -           Viceo Camera         32.12         -         -           Computer         96.36         -         -           Brushcutter, power         96.36         -         -           Chainsaw         64.24         -         -           EOD Demolition Kit         51.39         -         -           Fooster Ferrex Ordhance Locator         336.43         -         -           Schonstedl Magnetic Locator         51.39         -         -           Explosive Storage magazine         44.97         -         -           Carrier Phase GPS         899.35         -         -           Surveyor's Kit         64.24         -         -           Total Station Survey Equipment         835.11         -         -           Ford Explorer         321.20         -         -           Pickup, 4x4, 34 Ton         449.67         -         -  | **.* W. *  | <u> </u>  |          |          |        |          |              | ia.      |
| FM Radio Repeater/Base Station   | Other Disease Conta  |           |          |          |        |          |              |          |
| FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera 32.12 Computer 96.36 Brushcutter, power Chainsaw 64.24 EOD Demolition Kil Foester Ferrex Ordnance Locator Schonsted Magnetic Locator Schonsted Magnetic Locator Statistic Survey Equipment Ford Explorer Ford Explorer Ford Explorer Fuel Lodging Meals and Incidentals Foester Shaping Shipping Shipping Shipping Magazine Hobilitzation Donor Explosives Side Remediation - Pine Farm Side Remediation - Pine Farm Side Remediation - Pine Farm Side Remediation - Pine Farm Subtotal - Other Direct Costs  |  |           |          |          | Weeks  | Units    |              | Amount   |
| Cellular Telephone and Service   |  |           |          |          |        |          |              |          |
| Cellular Telephone and Service   04.24   |  |           |          |          |        |          |              |          |
| Computer         96.36           Brushcutter, power         98.36           Chainsaw         64.24           EOD Demotition Kil         51.39           Foester Ferrex Ordnance Locator         385.43           Schonsted Magnetic Locator         51.39           Explosive Storage magszine         44.97           Carrier Phase GPS         899.35           Surveyor's Kit         64.24           Total Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Alr Fare - Round Trip         1,220.54           Mileage         0.40           Fuel         1.74           Lodging         68.09           Meals and Incidentals         38.55           Project Consumables         192.72           Prioting and Binding         205.56           Shipping         154.17           Site Trailer         963.59           Electrical Hook Up         1,927.17           Magazine Fancing         899.35           Magazine Fencing         899.35           Magazine Fencing         1,541.74           Site Remediation - Pine Farm         300.00           Su  |  |           |          |          |        |          |              |          |
| Brushcutter, power   |  |           |          |          |        |          |              | •        |
| Chainsaw   |  |           |          |          |        |          |              | •        |
| Foester Ferrex Ordnance Locator   385.43   51.39   51.39   52.50   51.39   52.50   51.39   52.50   5   |  |           |          |          |        |          |              | -        |
| Foester Ferrex Ordnance Locator   385.43   Schonsted Magnetic Locator   51.39   Explosive Storage magazine   44.97   Carrier Phase GPS   699.35   Surveyor's Kit   64.24   Cotal Station Survey Equipment   835.11   Ford Explorer   321.20   Pickup, 4x4, 3/4 Ton   449.67   Alr Fare - Round Trip   1,220.54   Mileage   0.40   Fuel   Lodging   68.09   Meals and Incidentals   38.55   Project Consumables   192.72   Printing and Binding   58.45   Foreign Consumables   192.72   Printing and Binding   154.17   Site Trailer   963.59   Electrical Hook Up   1,927.17   Magazine Fencing   899.35   Magazine Mobilization   770.87   Donor Explosives   1,541.74   Site Remediation - Pine Farm   300.00   1.00   1.00   300.00  |  |           |          |          |        | j        |              | -        |
| Schonstedt Magnetic Locator   51.39  |  |           |          |          |        |          |              | -        |
| Explosive Storage magazine   |  |           |          |          |        |          |              | -        |
| Carrier Phase GPS Surveyor's Kit Ford Explorer Ford Explorer Fickup, 4x4, 3/4 Ton Alf Fare - Round Trip Mileage  1.74 Lodging Meals and Incidentals Project Consumables Project Consumables Project Consumables Project Hook Up Site Trailer Electrical Hook Up Magazine Fencing Magazine Mobilization Donor Explosives Site Remediation - Pine Farm Subtotal - Other Direct Costs   | <del>_</del>   |           |          |          |        |          |              | •        |
| Surveyor's Kit Total Station Survey Equipment Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip 1,220.54 Mileage 0,40 Fuel Lodging Meals and Incidentals Project Consumables |  |           |          |          |        |          |              | •        |
| Total Station Survey Equipment 835.11 Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton 449.67 Alr Fare - Round Trip 1,220.54 Mileage 0,40 Fuel 1.74 Lodging 68.09 Meals and Incidentals 38.55 Project Consumables 192.72 Printing and Binding 205.56 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 Subtotal - Other Direct Costs   |  |           | 899.35   |          |        |          |              | -        |
| Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Alr Fare - Round Trip 1,220.54 Mileage 0,40 Fuel 1,74 Lodging 68.09 Meals and Incidentals 38.55 Project Consumables Printing and Binding Shipping Shipping 154.17 Site Trailer Electrical Hook Up Magazine Mobilization Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 Subtotal - Other Direct Costs   |  |           |          |          |        |          |              | -        |
| Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       300.00   |  |           |          |          |        |          | (4)          | -        |
| Alr Fare - Round Trip  Alikeage  1,220.54  Mikeage  1,74  Lodging  68.09  Meals and Incidentals  38.55  Project Consumables  Printing and Binding  Shipping  154.17  Site Trailer  Electrical Hook Up  Magazine Hook Up  Magazine Mobilization  Donor Explosives  Site Remediation - Pine Farm  Subtotal - Other Direct Costs  |  |           |          |          |        |          | · .          | -        |
| Mileage       0.40         Fuel       1.74         Lodging       68.09         Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00       1.00       1.00         Subtotal - Other Direct Costs       300.00  |  |           |          |          |        |          |              | •        |
| Fuel 1.74 Lodging 68.09 Meals and Incidentals 38.55 Project Consumables 192.72 Printing and Binding 205.56 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 1.00 1.00 300.00   |  |           | 1,220.54 |          |        |          |              | •        |
| Lodging 68.09 Meals and Incidentals 38.55 Project Consumables 192.72 Printing and Binding 205.56 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 1.00 1.00 300.00   |  |           |          |          |        |          |              | -        |
| Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       300.00   |  |           |          |          |        |          |              | •        |
| Project Consumables  |  |           |          |          |        |          |              | •        |
| Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       300.00  |  |           |          |          |        |          |              | •        |
| Shipping   |  |           |          | giller : |        |          |              | -        |
| Site Trailer       963,59         Electrical Hook Up       1,927,17         Magazine Fencing       899,35         Magazine Mobilization       770,87         Donor Explosives       1,541,74         Site Remediation - Pine Farm       300,00       1,00       1,00         Subtotal - Other Direct Costs       300,00  |  |           |          |          |        |          | :            | -        |
| Electrical Hook Up 1,927.17  Magazine Fencing 899.35  Magazine Mobilization 770.87  Donor Explosives 1,541.74  Site Remediation - Pine Farm 300.00 1.00 1.00 300.00  Subtotal - Other Direct Costs 300.00  | • • •  |           |          |          |        |          |              | -        |
| Magazine Fencing         899.35           Magazine Mobilization         770.87           Donor Explosives         1,541.74           Site Remediation - Pine Farm         300.00         1.00         1.00           Subtotal - Other Direct Costs         300.00  |  | i. ** *   |          |          |        |          |              | •        |
| Magazine Mobilization         770,87           Donor Explosives         1,541,74           Site Remediation - Pine Farm         300.00           Subtotal - Other Direct Costs         300.00  |  |           |          |          |        | 1        |              | -        |
| Donor Explosives   |  |           |          |          |        |          |              | -        |
| Site Remediation - Pine Farm 300.00 1.00 1.00 300.00 Subtotal - Other Direct Costs 300.00  |  |           |          |          |        |          |              | -        |
| Subtotal - Other Direct Costs 300.00   | •  |           |          |          |        |          |              | •        |
|  | · · · · · · · · · · · · · · · · · · ·  |           | 300.00   |          | 1,00   | 1.00     |              |          |
| Total Estimated Costs 300.00   | Subtotal - Other Direc   | I Costs   |          |          |        |          | 1.4          | 300.00   |
| Total Estimated Costs 300.00   | Total Car  | 10-1      |          |          |        |          |              |          |
|  | I DIZI ESUMATAC  | U COSTS   |          |          |        | - N      |              | 300.00   |

**EVALUATED REMOVAL ALTERNATIVES** 

# Pine Farm [Storage Barn Area]

# Alternative 1 - No Further Action with Limited Action (Surface and Subsurface Clearance of OE Over a Selected Area to a Depth of One Foot)

Alternative 1 provides for a complete OE surface and subsurface clearance of the 0.5 acre area (area designated for future construction of a storage barn within the Pine Farm) to a depth of one foot. Because the surface clearance will be performed concurrently with the subsurface clearance, the cost for the surface clearance is included in the subsurface costs. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. It is assumed that no brush clearance is required in this area because available information indicates the area has recently been cleared of brush. During the Engineering Design effort, a number of production rates have been proportionally increased to account for this effort. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation present in grids, the survey production rate was held to 14 grids per day. The work is to be performed on privately owned property. A site restoration line item has been included in this estimate to account for funds to return the site to near original condition. Due to limited field scope and duration, a site visit and site trailer/office will not be necessary and has therefore been eliminated from this cost estimate.

Total Acreage to Surface Clear:

0.5 acre/2 grids (100' x 100')

Total Acreage Previously Geophysically Investigated:

.20 асте

Adjusted acreage:

.30 асте

Adjusted number of grids

2

Grids Requiring Brush Clearance

0 grids

Search Grid Size: 100' X 100'

0.22 acres per grid

Number of Grids requiring brush clearance:

0

#### **Production Rates:**

Brush Clearance

(no brush clearance required)

Land Survey

14 grids per day per two person team (1 team)

Surface Clearance

5 grids per workday (.5 acres) per 5 person team (1 team).

#### Duration:

Project Management

4 working days/1 weeks

**Brush Clearance** 

None

Land Survey

3 working days/.75 weeks (one team)

Surface Clearance

3 working days/.75 weeks (one five-person team)

Disposal

Effort included in Surface Clearance

Quality Control

3 working days/.75 week (2-person team)

Total Project Duration

4 working days/1 weeks

#### NFA with Limited OE Surface & Subsurface Clearance of Selected Area to 1 foot - Alt. 1

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm - Clearance of OE

Subtotal - Other Direct Costs

**Total Estimated Costs** 

| Future Storage                  | e Barn  |          |                  | Summary |        |                                       |            |  |
|---------------------------------|---------|----------|------------------|---------|--------|---------------------------------------|------------|--|
| •                               |         | Loaded   | Hours            |         |        | ,                                     |            |  |
|                                 |         | Hourly   | per              | Number  | Number | Estimated                             |            |  |
| Labor Category                  |         | Rate     | Week             | Weeks   | People | Hours                                 | Amount     |  |
| Program Management I            |         | 82.06    | D <sub>i</sub> N |         |        | 27.30                                 | 2,240.24   |  |
| Project Manager III             |         | 76,92    |                  |         |        | 42.00                                 | 3,230.64   |  |
| Project Manager II              |         | 66.67    |                  |         |        | 147,00                                | 9,800.49   |  |
| Certified Industrial Hygienist  |         | 74,81    |                  |         |        | 12.00                                 | 897.72     |  |
| Engineer II                     |         | 76.92    |                  |         |        | 48.30                                 | 3,715,24   |  |
| Survey Manager                  |         | 56.42    |                  |         |        | 92.40                                 | 5,213,21   |  |
| Surveyor V                      |         | 46.16    | 5-6              | a 471.  |        | 31.50                                 | 1,454.04   |  |
|                                 |         | e esta a |                  |         |        |                                       | .5         |  |
| Quality Control Specialist      | Regular | 47.04    |                  |         |        | 30.00                                 | 1,411.20   |  |
| Site Safety Officer             | Regular | 47.04    |                  |         |        | 40.00                                 | 1,881.60   |  |
| UXO Supervisor/Tech VI          | Regutar | 53.29    |                  |         |        | 80.00                                 | 4,263.20   |  |
| UXO Supervisor/Tech V           | Regular | 47.04    |                  |         |        | 30.00                                 | 1,411.20   |  |
| UXO Technician IV               | Regular | 40.49    |                  |         | 1      | 130.00                                | 5,263.70   |  |
| UXO Technician III              | Regular | 34.10    |                  |         |        | 60.00                                 | 2,046.00   |  |
| Laborer li                      | Regular | 28.65    |                  |         |        | -                                     | -          |  |
| Subtotal -                      | lahor   |          |                  |         |        | 770.50                                | 40 800 40  |  |
| - Constitution                  | CALC    |          |                  |         |        | 770.50                                | 42,828.48  |  |
|                                 |         |          |                  |         |        |                                       | 1 11 111 1 |  |
|                                 |         | Loaded   |                  | Number  | Number |                                       |            |  |
| Other Direct Costs              |         | Rate     |                  | Weeks   | Units  |                                       | Amount     |  |
| FM Radio, Handheld w/ charger   |         | 25.69    |                  |         |        |                                       | 115.61     |  |
| FM Radio Repeater/Base Station  |         | 44.97    |                  |         |        |                                       | 1,169.22   |  |
| Cellular Telephone and Service  |         | 64.24    |                  |         |        | 14                                    | 417.56     |  |
| Video Camera                    |         | 32.12    |                  |         |        |                                       | 208.78     |  |
| Computer                        |         | 96.36    |                  |         |        |                                       | 794.97     |  |
| Brushoutler, power              |         | 96.36    |                  |         |        |                                       | ,          |  |
| Chainsaw                        |         | 64.24    |                  |         |        |                                       |            |  |
| EOD Demolition Kit              |         | 51.39    |                  |         |        | 1                                     | 51,39      |  |
| Foester Ferrex Ordnance Locator |         | 385.43   |                  |         |        | · · · · · · · · · · · · · · · · · · · | •          |  |
| Schonsledt Magnetic Locator     |         | 51.39    |                  |         |        | at a<br>Albert                        | 552.44     |  |
| Explosive Storage magazine      |         | 44.97    |                  |         |        |                                       | 876.92     |  |
| Carrier Phase GPS               |         | 899.35   |                  |         |        |                                       | 899,35     |  |
| Surveyor's Kit                  |         | 64.24    |                  |         |        |                                       | 48.18      |  |
| Total Station Survey Equipment  |         | 835.11   |                  |         |        |                                       | 835.11     |  |
| Ford Explorer                   |         | 321.20   |                  |         |        |                                       | 963,60     |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67   |                  |         |        |                                       | 112.42     |  |
| Air Fare - Round Trip           |         | 1,220.54 |                  |         |        |                                       | 9,764.32   |  |
| Mileage                         |         | 0.40     |                  |         |        |                                       | 300.00     |  |
| Fuel                            |         | 1.74     |                  |         |        |                                       | 318.42     |  |
| Lodging                         |         | 68.09    |                  |         |        |                                       | 3,064.05   |  |
| Meals and incidentals           |         | 38.55    |                  |         |        | •                                     | 1,773.30   |  |
| Project Consumables             |         | 192.72   |                  |         |        |                                       | 2,457.18   |  |
| Printing and Binding            |         | 205.56   |                  |         |        |                                       | 1,438,92   |  |
| Shipping                        |         | 154.17   |                  |         |        |                                       | 616.68     |  |
| Site Trailer                    |         | 963.59   |                  |         |        |                                       | •          |  |
| Electrical Hook Up              |         | 1,927.17 |                  |         |        |                                       | -          |  |
| Magazine Fencing                |         | 899.35   |                  |         |        |                                       | 899.35     |  |
| Magazine Mobilization           |         | 770.87   |                  |         |        |                                       | 770.87     |  |
| Donor Explosives                |         | 1,541.74 |                  |         |        |                                       | 154,17     |  |
| Site Remediation - Pine Farm    |         | 300.00   |                  |         |        |                                       | 300.00     |  |
| Subtotal - Other Direct C       | 0539    |          |                  |         |        |                                       | 20 202 04  |  |

28,902.81

71,<u>7</u>31.29

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Future Storage Barn

Tank 1 Site Visit

| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|
| Program Management I           |         | 82.06                    | -                    | •               | •                |                    | •      |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  |        |
| Project Manager II             |         | 66.67                    |                      | -               |                  | _                  | -      |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | -                  |        |
| Engineer II                    |         | 76.92                    |                      |                 |                  |                    |        |
| Survey Manager                 |         | 56.42                    |                      |                 |                  |                    |        |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | _                  |        |
|                                |         |                          |                      |                 |                  |                    |        |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | -                  | •      |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | -                  |        |
| UXO Supervisor/Tech VI         | Regular | 53,29                    |                      | -               | -                |                    | -      |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | •                  | _      |
| UXO Technician IV              | Regular | 40,49                    |                      |                 |                  |                    | _      |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  |                    | _      |
| Laborer II                     | Regular | 28,65                    |                      |                 |                  |                    | _      |
| e Newson and Dail Ja           |         |                          |                      |                 |                  |                    |        |

Subtotal - Labor

| Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Orchance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS |       | Loaded<br>Rate | Number | Number  | <br>        |
|---|-------|----------------|--------|---------|-------------|
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chairsaw EOD Demolition Kit Foester Ferrax Orchance Locator Schonstedt Magnetic Locator Explosive Storage magazine                                       |       | Rate           |        | 1401100 |             |
| FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine   |       | 7410           | Weeks  | Units   | Amount      |
| Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOO Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine  |       | 25.69          |        |         |             |
| Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine   |       | 44,97          |        |         | l .         |
| Computer Brushoutter, power Chairsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine  |       | 84.24          | -      |         |             |
| Brushoutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine   |       | 32.12          |        | -       | l .         |
| Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine  |       | 96.36          |        |         |             |
| EOD Demolition Kit<br>Foester Ferrex Ordnance Locator<br>Schonstedt Magnetic Locator<br>Explosive Storage magazine  |       | 96.36          |        |         |             |
| Foester Ferrex Ordnance Locator<br>Schonstedt Magnetic Locator<br>Explosive Storage magazine  |       | 64.24          |        |         |             |
| Schonstedt Magnetic Locator<br>Explosive Storage magazine   | 18 60 | 51.39          |        |         |             |
| Explosive Storage magazine  |       | 385.43         | -      | _       | _           |
| Explosive Storage magazine  |       | 51.39          |        | _       | _           |
|   |       | 44.97          |        |         |             |
| Carrier Presse GPS  |       | 899.35         |        | _       |             |
| Surveyor's Kit  |       | 64.24          |        | _       | <u> </u>    |
| Total Station Survey Equipment  |       | 635.11         |        |         | _           |
| Ford Explorer   |       | 321.20         | _      |         | _           |
| Pickup, 4x4, 3/4 Ton  |       | 449.67         | _      |         | _           |
| Air Fare - Round Trip   |       | 1,220.54       |        | _       |             |
| Mileage   |       | 0.40           | _      |         | _           |
| Fuel  |       | 1.74           | -      |         | -           |
| Lodging   |       | 68.09          | _      |         |             |
| Meals and Incidentals   |       | 38.55          |        | - 1     |             |
| Project Consumables   |       | 192.72         | _      |         |             |
| Printing and Binding  |       | 205.56         |        |         | _           |
| Shipping  |       | 154.17         |        |         | _           |
| Site Trailer  |       | 983.59         |        |         | _           |
| Electrical Hook Up  |       | 1,927.17       |        |         | _           |
| Magazine Fencing  |       | 899.35         |        | 1       | _           |
| Magazine Mobilization   |       | 770.87         |        |         | -           |
| Donor Explosives  |       | 1.541.74       |        |         | -           |
| Site Remediation - Pine Farm  |       | 300.00         |        |         | _           |
| Subtotal - Other Direct   | Costs |                |        | أسيسين  | <del></del> |
|   |       |                |        |         |             |
| Total Estimated   | Costs |                |        |         |             |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of QE
Future Storage Barn

Task 2 Work Plan

| Future Storage Bai              | 'n           |                      |       |                 | Work Plan       |           |                |
|---------------------------------|--------------|----------------------|-------|-----------------|-----------------|-----------|----------------|
|                                 |              | Loaded               | Hours |                 |                 |           |                |
|                                 |              | Hourly               | per   | Number          | Number          | Estimated |                |
| Labor Category                  |              | Rate                 | Week  | Weeks           | People          | Hours     | Amount         |
| Program Management I            |              | 82.06                | 42.00 | 0.40            | 1.00            | 16.80     | 1,378,61       |
| Project Manager III             |              | 76.92                |       |                 |                 | -         | -              |
| Project Manager II              |              | <del>6</del> 6.67    | 42.00 | 1.50            | 1.00            | 63.00     | 4,200.21       |
| Certified Industrial Hygienist  |              | 74.81                | 40.00 | 0.30            | 1.00            | 12.00     | 897.72         |
| Engineer II                     |              | 76.92                | 42.00 | 0.40            | 1.00            | 16.80     | 1,292.26       |
| Survey Manager                  |              | 56.42                | 42.00 | 0.50            | 1.00            | 21.00     | 1,184.82       |
| Surveyor V                      |              | 46.16                |       | ****            |                 |           |                |
| Overlity Control Constitute     |              | C. Best. 3           |       |                 |                 |           |                |
| Quality Control Specialist      | Regular      | 47.04                |       |                 |                 | -         | -              |
| Site Safety Officer             | Regular      | 47.04                |       |                 |                 | •         | •              |
| UXO Supervisor/Tech VI          | Regular      | 53,29                | 40.00 | 0.75            | 1.00            | 30.00     | 1,598,70       |
| UXO Supervisor/Tech V           | Regular      | 47.04                |       |                 |                 | •         | -              |
| UXO Technician IV               | Regular      | 40.49                |       |                 |                 | -         | -              |
| UXO Technician III              | Regular      | 34.10                |       |                 |                 | -         | -              |
| Laborer II                      | Regular      | 28.65                |       |                 |                 | •         | •              |
| Subtotal - Labo                 | N.           |                      |       |                 |                 |           |                |
| SUDIORAI - LISCO                | Į.           | <sup>3</sup> mojnggo |       |                 |                 | 159.60    | 10,552.32      |
| + +4,0888,3++<br>1408,4         |              |                      |       |                 |                 |           | and the second |
| *** No. 10.1                    |              | Loaded               |       | Alverton        | Number          |           |                |
| Other Direct Costs              |              | Rate                 |       | Number<br>Weeks | Number<br>Units |           | Amount         |
| FM Radio, Handheld w/ charger   |              | 25.69                |       | . 110014        | Ulena           |           | Anioun         |
| FM Radio Repeater/Base Station  |              | 44.97                |       |                 |                 |           | •              |
| Cellutar Telephone and Service  |              | 64.24                |       |                 |                 |           | •              |
| Video Camera                    |              | 32.12                |       |                 |                 |           | -              |
| Computer                        |              | 96.36                |       | 1.00            | 4.00            |           | -              |
| Brushoutler, power              |              | 96.36                |       | 1.00            | 1.00            |           | 96.36          |
| Chainsaw                        |              | 54.24                |       |                 |                 |           | •              |
| EOD Demolition Kit              |              | 51.39                |       |                 |                 |           | •              |
| Foester Ferrex Ordnance Locator |              | 385.43               |       |                 |                 |           | •              |
| Schonstedt Magnetic Locator     |              | 51.39                |       |                 |                 |           | -              |
| Explosive Storage magazine      |              | 44.97                |       |                 |                 |           | -              |
| Carrier Phase GPS               |              | 899.35               |       |                 |                 |           | •              |
| Surveyor's Kit                  |              | 64.24                |       |                 |                 |           | •              |
| Total Station Survey Equipment  |              | 835,11               |       |                 |                 |           | -              |
| Ford Explorer                   |              | 321.20               |       | 1.00            | 4.00            |           | -              |
| Pickup, 4x4, 3/4 Ton            |              | 449.67               |       | 1.00            | 1.00            |           | 321,20         |
| Air Fare - Round Trip           |              | 1,220,54             |       | 1.00            | 4.00            |           | 4 000 24       |
| Mileage                         |              | 0.40                 |       | 50.00           | 1.00            |           | 1,220.54       |
| Fuel                            |              | 1.74                 |       | 1.00            | 1,00            |           | 20.00          |
| Lodging                         |              | 68,09                |       | 6.00            | 40.00           |           | 69.60          |
| Meals and Incidentals           |              | 38.55                |       | 7.00            | 1.00<br>1.00    |           | 408.54         |
| Project Consumables             |              | 192.72               |       | 8.00            | 1.00            |           | 269.85         |
| Printing and Binding            |              | 205.58               |       | 1.00            |                 |           | 1,541.76       |
| Shipping                        |              | 154.17               |       | 1.00            | 2.00            |           | 411.12         |
| Site Trailer                    |              | 963.59               |       |                 |                 |           | -              |
| Electrical Hook Up              |              | 1,927.17             |       |                 |                 |           | -              |
| Magazine Fencing                |              | 899.35               |       |                 |                 |           | •              |
| Magazine Mobilization           | .:,          | 770.87               |       |                 |                 |           | -              |
| Donor Explosives                | <br>1988 - : | 1,541.74             |       |                 |                 |           | -              |
| Site Remediation - Pine Farm    |              | 300.00               |       |                 |                 |           | -              |
| Subtotal - Other Direct Costs   |              | 200.00               |       |                 |                 |           | 4,358.97       |
|                                 |              |                      |       |                 |                 |           |                |
| Total Estimated Costs           |              |                      |       |                 |                 |           | 14 014 20      |
|                                 |              |                      |       |                 |                 |           | 14,911.29      |

Corps of Engineers
Camp Croft, Spentenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Future Storage Barn

Task 3 Site Management

| Future Storage                               | Bam      |                          |                      |                 | Site Management  |                    |           |
|--|----------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Category                               |          | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |
| Program Management I                         | _        | 82.06                    | TTOOK                | 110003          | , eopie          | riouis             | Allouit   |
| Project Manager III                          |          | 76.92                    | 42.00                | 1.00            | 1.00             | 42.00              | 2 220 64  |
| Project Manager II                           |          | 66.67                    | 4200                 | 1.00            | 1.00             | 42.00              | 3,230.64  |
| Certified Industrial Hygienist               |          | 74.81                    |                      |                 |                  | -                  | •         |
| Engineer II                                  |          | 76.92                    |                      |                 |                  | •                  | -         |
| Survey Manager                               |          | 56.42                    |                      |                 |                  | •                  | -         |
| Surveyor V                                   |          | 46.16                    |                      |                 |                  | -                  | -         |
|  |          | 70.10                    |                      |                 |                  | 7                  | •         |
| Quality Control Specialist                   | Regular  | 47.04                    |                      |                 |                  |                    |           |
| Site Safety Officer                          | Regular  | 47.04                    | 40.00                | 1.00            | 1.00             | 40.00              | 1,881,60  |
| UXO Supervisor/Tech VI                       | Regular  | 53.29                    | 40.00                | 1.00            | 1.00             | 40.00              | 2,131,60  |
| UXO Supervisor/Tech V                        | Regular  | 47.04                    | 70.00                | 1.00            | 1.00             | 70.00              | 2,131,00  |
| UXO Technician IV                            | Regular  | 40.49                    |                      |                 |                  | -                  | •         |
| UXO Technician III                           | Regular  | 34.10                    |                      |                 |                  | •                  | -         |
| Laborer II                                   | Regular  | 28.65                    |                      |                 |                  | -                  | -         |
|  | recycles | 20.00                    | S                    |                 |                  | -                  |           |
| Subtotal - L                                 | ahor     |                          |                      |                 |                  | 122.00             | 7,243.84  |
| er the skill ander                           |          |                          |                      |                 |                  |                    | 1,243.04  |
| 5, 159, 259, 251, 24<br>21, 258, 257, 251, 1 |          | C. Chaba in Conn         |                      |                 |                  |                    |           |
|  |          | Loaded                   |                      | Number          | Number           |                    |           |
| Other Direct Costs                           |          | Rate                     |                      | Weeks           | Units            |                    | Amount    |
| FM Radio, Handheld w/ charger                | 1.91     | 25.69                    |                      |                 |                  | · ·                |           |
| FM Radio Repeater/Base Station               |          | 44.97                    |                      | 6.50            | 4.00             |                    | 1,189.22  |
| Cellular Telephone and Service               |          | 64.24                    |                      | 6.50            | 1.00             |                    | 417.56    |
| Video Carnera                                |          | 32.12                    |                      | 6.50            | 1.00             |                    | 208.78    |
| Computer                                     |          | 96,36                    |                      | 6.50            | 1.00             |                    | 626.34    |
| Brushcutter, power                           |          | 96.36                    |                      | 0.00            | 1                |                    | 020,04    |
| Chainsaw                                     |          | 64.24                    |                      |                 |                  |                    | -         |
| EOD Demolition Kit                           |          | 51.39                    |                      |                 |                  |                    | _         |
| Foester Ferrex Ordnance Locator              |          | 385,43                   |                      |                 |                  |                    |           |
| Schonstedt Magnetic Locator                  | •        | 51,39                    |                      |                 |                  |                    | -         |
| Explosive Storage magazine                   |          | 44.97                    |                      | 6.50            | 3.00             |                    | 876.92    |
| Carrier Phase GPS                            |          | 899.35                   |                      |                 |                  |                    | 0.0.02    |
| Surveyor's Kil                               |          | 64.24                    |                      |                 |                  |                    | _         |
| Total Station Survey Equipment               |          | 835.11                   |                      |                 |                  |                    | _         |
| Ford Explorer                                |          | 321.20                   |                      |                 | i                |                    | _         |
| Pickup, 4x4, 3/4 Ton                         | 10 m     | 449.67                   |                      |                 |                  |                    | _         |
| Air Fare - Round Trip                        |          | 1,220.54                 |                      | 1.00            | 3.00             |                    | 3,661,62  |
| Mileage                                      |          | 0.40                     |                      | 500.00          | 1.00             |                    | 200.00    |
| Fuel   |          | 1.74                     |                      | 35.00           | 1.00             |                    | 60,90     |
| odging                                       |          | 68.09                    |                      | 5.00            | 200              |                    | 680.90    |
| Meals and Incidentals                        |          | 38.55                    |                      | 5.00            | 200              |                    | 385.50    |
| Project Consumables                          |          | 192.72                   |                      | 200             | 1.00             |                    | 385.44    |
| Printing and Binding                         |          | 205.56                   |                      | 200             | 1.00             |                    | 411.12    |
| Shipping                                     | * %      | 154.17                   |                      | 1.00            | 3.00             | •                  | 462.51    |
| Site Trailer                                 |          | 963.59                   |                      | -               | 1.00             |                    |           |
| Electrical Hook Up                           |          | 1,927.17                 |                      | •               | 1.00             |                    |           |
| Asgazine Fencing                             |          | 899.35                   |                      | 1.00            | 1.00             |                    | 899.35    |
| lagazine Mobilization                        |          | 770.87                   |                      | 1.00            | 1.00             |                    | 770.87    |
| Ponor Explosives                             |          | 1,541.74                 |                      |                 |                  |                    | •         |
| ite Remediation - Pine Farm                  |          | 300.00                   |                      |                 |                  |                    | -         |
| Subtotal - Other Direct Co                   | xsts     |                          |                      |                 |                  |                    | 11,217.03 |
|  |          |                          |                      |                 |                  |                    |           |
| Total Estimated Co                           |          |                          |                      |                 |                  |                    | 18,460.87 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Future Storage Barn

| Pine Farm - Clearance          |         |                          | Task 4               |                 |                  |                    |          |  |  |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|----------|--|--|--|
| Future Storage                 | Barn    |                          |                      |                 |                  | Land Survey        |          |  |  |  |
| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |  |  |  |
| Program Management I           |         | 82.06                    |                      | -               |                  | -                  |          |  |  |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  | •        |  |  |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  |          |  |  |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | •                  |          |  |  |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  |                    |          |  |  |  |
| Survey Manager                 |         | 56.42                    | 42.00                | 0.70            | 1.00             | 29.40              | 1,658.75 |  |  |  |
| Surveyor V                     |         | 46.16                    | 42.00                | 0.75            | 1.00             | 31.50              | 1,454,04 |  |  |  |
| 9.8 Sept. 1                    |         |                          | ٠.                   |                 |                  |                    |          |  |  |  |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | •                  | -        |  |  |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  |                    | _        |  |  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  |                    | -        |  |  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | -                  | _        |  |  |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | -                  | _        |  |  |  |
| UXO Technician III             | Regular | 34.10                    | 40.00                | 0.75            | 1.00             | 30.00              | 1,023.00 |  |  |  |
| aborer II                      | Regular | 28.65                    |                      | 2,10            | 1.00             | -                  | 1,020.00 |  |  |  |
| and arrest                     |         |                          | Park 1               |                 |                  |                    |          |  |  |  |

| Subtotal - Lab  | v         |          |     |        |        | 90.90 | 4 405 30  |
|---|-----------|----------|-----|--------|--------|-------|-----------|
| Cubical - Eab   | · Por con |          |     |        |        | 90.90 | 4,135.79  |
|   |           |          |     |        |        |       |           |
|   |           | Loaded   |     | Number | Number |       |           |
| Other Direct Costs  |           | Rate     | _   | Weeks  | Units  |       | Amount    |
| FM Radio, Handheld w/ charger                                 |           | 25.69    |     | 0.75   | 200    |       | 38.54     |
| FM Radio Repeater/Base Station                                |           | 44.97    |     |        |        |       |           |
| Cellular Telephone and Service                                |           | 64.24    | 1.1 |        |        |       |           |
| Video Camera  |           | 32.12    |     |        |        |       | l .       |
| Computer  |           | 96.36    |     | 0.75   | 1.00   |       | 72.27     |
| Brushoutter, power  |           | 96.36    |     |        |        |       |           |
| Chainsaw  |           | 64.24    |     |        | į      |       | _         |
| EOD Demolition Kit  | N1367     | 51.39    |     |        |        |       |           |
| Foester Ferrex Ordnance Locator                               |           | 385.43   |     |        |        |       | -         |
| Schonsledt Magnetic Locator                                   |           | 51,39    |     | 0.75   | 1.00   |       | 38.54     |
| Explosive Storage magazine                                    |           | 44.97    |     | 0.75   | 1.00   |       | 36,54     |
| Carrier Phase GPS   |           | 699.35   |     | 0.50   | 2.00   |       | 899.35    |
| Surveyor's Kit  |           | 64.24    |     | 0.75   | 1.00   |       | 48.18     |
| Total Station Survey Equipment                                |           | 835.11   |     | 1.00   | 1.00   |       |           |
| Ford Explorer   |           | 321.20   |     | 1.00   | 1.00   |       | 835.11    |
| Pickup, 4x4, 3/4 Ton  |           | 449.67   |     | 1.00   | 1.00   |       | 321.20    |
| Air Fare - Round Trio   |           | 1.220.54 |     | 1.00   |        |       |           |
| Vileage   |           | 0.40     |     | 50.00  | 2.00   |       | 2,441.08  |
| Fuel  |           | 1.74     |     |        | 200    |       | 40.00     |
| Lodging   |           | 68.09    |     | 32.00  | 1.00   |       | 55.68     |
| Meals and incidentals   |           | 38.55    |     | 3.00   | 2.00   |       | 406.54    |
| Project Consumables   |           | 192.72   |     | 3.00   | 2.00   |       | 231.30    |
| Printing and Binding  |           |          |     | 0.75   | 1.00   |       | 144.54    |
| Shipping  |           | 205.56   |     | 1.00   | 1.00   |       | 205.56    |
| Site Trailer  |           | 154.17   |     | 1.00   | 1.00   |       | 154.17    |
| Sectrical Hook Up   |           | 963.59   |     |        |        |       | •         |
| Aggazine Fencing  |           | 1,927.17 |     |        |        |       | -         |
| Assezine Mobilization   |           | 699.35   |     |        |        | 1 1 L | -         |
| Ponor Explosives  |           | 770.87   |     |        |        |       | -         |
| ide Remediation - Pine Farm                                   |           | 1,541,74 |     |        | i      |       | -         |
| swertermediation - Pine Farm<br>Subtotal - Other Direct Costs |           | 300.00   |     |        |        |       |           |
| Subtotal - Other Direct Costs                                 |           |          |     |        |        |       | 5,934.06  |
| <b>Y_1_1 E_1</b>  | 1.0       |          |     |        |        |       |           |
| Total Estimated Costs   |           |          |     |        |        |       | 10,069.85 |

Corps of Engineers Camp Croft, Spertenburg, S.C. Engineering Design Cost Estimate Pine Farm - Clearance of OE Future Storage Barn

Task 5 Brush Clearance

| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Per<br>Per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |
|--------------------------------|---------|--------------------------|--------------------|-----------------|------------------|--------------------|--------|
| Program Management I           |         | 82.06                    |                    |                 |                  | -                  | -      |
| Project Manager III            |         | 76.92                    |                    |                 |                  | -                  | -      |
| Project Manager II             |         | <b>6</b> 6.67            |                    |                 |                  | -                  | -      |
| Certified Industrial Hygienist |         | 74.81                    |                    |                 |                  | •                  |        |
| Engineer II                    |         | 76.92                    |                    |                 |                  | -                  |        |
| Survey Manager                 |         | 56.42                    |                    |                 |                  | •                  |        |
| Surveyor V                     |         | 46.16                    |                    |                 |                  | -                  |        |
|                                |         |                          |                    |                 |                  |                    |        |
| Quality Control Specialist     | Regular | 47.04                    |                    |                 |                  | -                  |        |
| Site Safety Officer            | Regular | 47.04                    |                    |                 |                  | -                  |        |
| JXO Supervisor/Tech VI         | Regular | 53.29                    |                    |                 |                  | -                  | _      |
| JXO Supervisor/Tech V          | Regular | 47.04                    |                    |                 |                  | _                  |        |
| JXO Technician IV              | Regular | 40.49                    |                    | _               | -                |                    |        |
| JXO Technician III             | Regular | 34,10                    |                    |                 |                  |                    |        |
| aborer II                      | Regular | 28.65                    |                    | -               | _                |                    | _      |
| 468 Ng4                        |         |                          |                    |                 |                  |                    | _      |

Subtotal - Labor

|                                | Loaded   | Number | Number |   |        |
|--------------------------------|----------|--------|--------|---|--------|
| Other Direct Costs             | Rate     | Weeks  | Units  |   | Amount |
| M Radio, Handheld w/ charger   | 25.69    | -      | -      | 1 |        |
| M Radio Repealer/Base Station  | 44.97    |        |        |   |        |
| Celfular Telephone and Service | 64.24    |        |        |   |        |
| /ideo Camera                   | 32.12    |        |        |   |        |
| Computer                       | 96.36    |        |        |   |        |
| Brushoutter, power             | 96.36    | -      | -      |   | ,      |
| Chainsaw                       | 64.24    | -      |        |   |        |
| OD Demolition Kit              | 51.39    |        |        |   |        |
| oester Ferrex Ordnance Locator | 385,43   |        |        |   |        |
| chonstedt Magnetic Locator     | 51.39    |        | -      |   |        |
| xplosive Storage magazine      | 44.97    |        |        |   |        |
| arrier Phase GPS               | 899.35   |        |        |   |        |
| urveyor's Kit                  | 64.24    |        |        |   |        |
| otal Station Survey Equipment  | 835.11   |        |        |   |        |
| ord Explorer                   | 321.20   |        |        |   | _      |
| tickup, 4x4, 3/4 Ton           | 449.67   | _      |        |   | _      |
| Ir Fare - Round Trip           | 1,220.54 |        |        |   |        |
| lileage                        | 0.40     | _      | •      |   |        |
| uel                            | 1.74     | -      | -      |   | _      |
| odging                         | 68.09    | -      | -      |   |        |
| eals and incidentals           | 38.55    | -      | -      |   |        |
| roject Consumables             | 192.72   |        | -      |   | -      |
| rinting and Binding            | 205.56   |        |        |   |        |
| hipping                        | 154.17   |        |        |   |        |
| de Trai <del>le</del> r        | 963.59   | ľ      | į      |   | -      |
| lectrical Hook Up              | 1,927.17 |        |        |   |        |
| agazine Fencing                | 899.35   |        |        |   | -      |
| agazine Mobilization           | 770.87   |        |        |   |        |
| onor Explosives                | 1,541.74 |        |        |   | -      |
| le Remediation - Pine Farm     | 300.00   |        |        |   | _      |
| Subtotal - Other Direct Costs  |          |        |        |   | -      |

Corps of Engineers Camp Croft, Spertenburg, S.C. Engineering Design Cost Estimate Pine Farm - Clearance of OE Future Storage Barn

Task 6 Surface OF Removal

| Future Storage Baz              | rı.      |          |       | Surface OE Removal |        |           |                 |
|---------------------------------|----------|----------|-------|--------------------|--------|-----------|-----------------|
| _                               |          | Loaded   | Hours |                    |        |           |                 |
|                                 |          | Hourty   | per   | Number             | Number | Estimated |                 |
| Labor Category                  |          | Rate     | Week  | Weeks              | People | Hours     | Amount          |
| Program Management I            |          | 82.06    | -     |                    |        | -         |                 |
| Project Manager III             |          | 76.92    |       |                    |        | _         | •               |
| Project Manager II              |          | 66.67    |       |                    |        |           | _               |
| Certified Industrial Hygienist  |          | 74,81    |       |                    |        | -         | -               |
| Engineer II                     |          | 76.92    |       |                    |        | •         | -               |
| Survey Manager                  |          | 56.42    |       |                    |        | •         | _               |
| Surveyor V                      |          | 46.16    |       |                    |        | •         | -               |
|                                 |          |          |       |                    |        |           | 100             |
| Quality Control Specialist      | Regular  | 47.04    |       |                    |        | •         | -               |
| Site Safety Officer             | Regular  | 47.04    |       |                    |        | •         | -               |
| UXO Supervisor/Tech VI          | Regular  | 53.29    |       |                    |        | -         | -               |
| UXO Supervisor/Tech V           | Regular  | 47.04    | 40.00 | 0.75               | 1.00   | 30.00     | 1,411.20        |
| UXO Technician IV               | Regutar  | 40.49    | 40.00 | 0.75               | 4.00   | 120.00    | 4,858.80        |
| UXO Technician III              | Regular  | 34.10    |       |                    |        | •         | •               |
| Laborer II                      | Regular  | 28.65    |       |                    |        | •         | -               |
| Subtotal - Labor                | 1        |          |       |                    |        | 150,00    |                 |
| Guotal - Capo                   |          |          |       |                    |        | 150.00    | 6,270.00        |
|                                 |          |          |       |                    |        |           | dayar<br>Marana |
|                                 |          | Loaded   |       | Number             | Number | •         |                 |
| Other Direct Costs              |          | Rate     |       | Weeks              | Units  |           | Amount          |
| FM Radio, Handheld w/ charger   |          | 25.69    |       | 1.00               | 2.00   |           | 51.38           |
| FM Radio Repeater/Base Station  |          | 44.97    |       |                    |        |           | -               |
| Cellular Telephone and Service  | 713      | 64.24    |       |                    |        |           |                 |
| Video Camera                    |          | 32.12    |       |                    |        |           | _               |
| Computer                        |          | 96.36    |       |                    |        |           | _               |
| Brushcutter, power              |          | 96.36    |       |                    |        |           | -               |
| Chainsaw                        |          | 64.24    |       |                    |        |           | _               |
| EOD Demolition Kit              |          | 51.39    |       | 1.00               | 1.00   |           | 51.39           |
| Foester Ferrex Ordnance Locator |          | 385.43   |       |                    |        |           |                 |
| Schonsledt Magnetic Locator     |          | 51.39    |       | 1.00               | 8.00   |           | 411,12          |
| Explosive Storage magazine      | 1,341.1  | 44.97    |       |                    |        |           | -               |
| Carrier Phase GPS               | wild the | 899.35   |       |                    |        |           | -               |
| Surveyor's Kit                  |          | 64.24    |       |                    |        |           | -               |
| Total Station Survey Equipment  |          | 835.11   |       |                    |        |           | -               |
| Ford Explorer                   |          | 321.20   |       |                    |        |           | •               |
| Pickup, 4x4, 3/4 Ton            |          | 449.67   |       |                    |        |           |                 |
| Air Fare - Round Trip           |          | 1,220.54 |       |                    |        |           | -               |
| Mileage                         |          | 0.40     |       |                    |        |           | -               |
| Fuel                            |          | 1.74     |       |                    | 1      |           |                 |
| Lodging                         |          | 68.09    |       | 3.00               | 5.00   |           | 1,021.35        |
| Meals and Incidentals           |          | 38.55    |       | 3.00               | 5.00   |           | 578.25          |
| Project Consumables             |          | 192.72   |       |                    |        |           |                 |
| Printing and Binding            |          | 205.56   |       |                    |        |           | •               |
| Shipping                        |          | 154.17   |       |                    |        |           | -               |
| Site Trailer                    |          | 963.59   |       |                    |        |           | -               |
| Electrical Hook Up              |          | 1,927.17 |       |                    |        |           | -               |
| Magazine Fencing                |          | 899.35   |       |                    |        |           | -               |
| Magazine Mobilization           |          | 770.87   |       |                    |        |           | •               |
| Donor Explosives                |          | 1,541.74 |       | 0.50               | 0.20   |           | 154.17          |
| Site Remediation - Pine Farm    |          | 300.00   |       |                    |        |           |                 |
| Subtotal - Other Direct Costs   |          |          |       |                    |        |           | 2,267.66        |
| Total Estimated Occur-          |          |          |       |                    |        |           |                 |
| Total Estimated Costs           |          |          |       |                    | :      |           | 8,537.66        |

Corps of Engineers
Camp Croft, Sperienburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Future Storage Barn

**Total Estimated Costs** 

Task 7 Scrap Turn-in

| Future Storage Barn                               |                    |                    | Scrap Turn-In |        |         |           |             |  |  |  |
|---|--------------------|--------------------|---------------|--------|---------|-----------|-------------|--|--|--|
| •   |                    | Loaded             | Hours         |        |         |           |             |  |  |  |
|   |                    | Hourty             | рег           | Number | Number  | Estimated |             |  |  |  |
| Labor Category                                    |                    | Rate               | Week          | Weeks  | People  | Hours     | Amount      |  |  |  |
| Program Management I                              |                    | 82.06              |               | _      |         | _         |             |  |  |  |
| Project Manager III                               |                    | 76.92              |               |        |         | _         |             |  |  |  |
| Project Manager II                                |                    | <b>6</b> 6.67      |               |        |         | •         | -           |  |  |  |
| Certified Industrial Hygienist                    |                    | 74.81              |               |        |         | _         |             |  |  |  |
| Engineer II                                       |                    | 76.92              |               |        |         |           | -           |  |  |  |
| Survey Manager                                    |                    | 56.42              |               |        |         | -         | -           |  |  |  |
| Surveyor V  |                    | 46.16              |               |        |         |           |             |  |  |  |
| Overlift Control Consisted                        | Desides            |                    |               |        | •       |           |             |  |  |  |
| Quality Control Specialist<br>Site Safety Officer | Regular            | 47.04              |               |        |         | -         | •           |  |  |  |
| UXO Supervisor/Tech VI                            | Regular            | 47.04              | 10.00         |        |         |           |             |  |  |  |
| UXO Supervisor/Tech V                             | Regular            | 53.29              | 40.00         | 0.25   | 1.00    | 10.00     | 532.90      |  |  |  |
| UXO Technician IV                                 | Regular            | 47.04              | 10.00         |        |         |           |             |  |  |  |
| UXO Technician III                                | Regular            | 40.49              | 40.00         | 0.25   | 1.00    | 10.00     | 404.90      |  |  |  |
| Laborer II  | Regular<br>Regular | 34.10              |               |        |         | •         | -           |  |  |  |
| LEGGO II  | rvegurar           | 28.65              |               |        | ينسوسين | -         | -           |  |  |  |
| Subtotal - Labor                                  |                    |                    |               |        |         | 20.00     | 937,80      |  |  |  |
| Maria Maria                                       |                    |                    |               |        |         | 20.00     | 00.100      |  |  |  |
| \$100 pt 12 pt                                    |                    |                    |               |        |         |           |             |  |  |  |
|   |                    | Loaded             |               | Number | Number  |           |             |  |  |  |
| Other Direct Costs                                |                    | Rate               |               | Weeks  | Units   |           | Amount      |  |  |  |
| FM Radio, Handheld w/ charger                     |                    | 25.69              |               |        |         |           |             |  |  |  |
| FM Radio Repeater/Base Station                    |                    | 44.97              |               |        |         |           |             |  |  |  |
| Cellular Telephone and Service                    |                    | 64.24              |               |        |         |           |             |  |  |  |
| Video Camera                                      |                    | 32.12              |               |        |         |           |             |  |  |  |
| Computer  |                    | 96.36              |               |        |         |           |             |  |  |  |
| Brushcutter, power                                |                    | 96.36              |               |        |         |           |             |  |  |  |
| Chainsaw  |                    | 64.24              |               |        |         |           | •           |  |  |  |
| EOD Demoktion Kit                                 |                    | 51.39              |               |        | 1       |           | •           |  |  |  |
| Foester Ferrex Ordnance Locator                   |                    | 385.43             |               |        |         |           |             |  |  |  |
| Schonsted Magnetic Locator                        |                    | 51.39              |               |        |         |           | •           |  |  |  |
| Explosive Storage magazine                        |                    | 44.97              |               |        |         |           | •           |  |  |  |
| Carrier Phase GPS                                 |                    | 899.35             |               |        |         |           | •           |  |  |  |
| Surveyor's Kil                                    |                    | 64.24              |               |        |         |           | -           |  |  |  |
| Total Station Survey Equipment                    |                    | 835.11             |               |        |         |           | -           |  |  |  |
| Ford Explorer                                     |                    | 321.20             |               |        | i       |           | •           |  |  |  |
| Pickup, 4x4, 3/4 Ton                              |                    | 449.67             |               | 1.00   | 0.25    |           | 112.42      |  |  |  |
| Air Fare - Round Trip                             |                    | 1,220.54           |               |        |         |           | -           |  |  |  |
| Mileage<br>Fuel                                   |                    | 0.40               |               |        | 1       |           | -           |  |  |  |
|   |                    | 1.74               |               | 6.00   | 1.00    |           | 10.44       |  |  |  |
| Lodging<br>Meals and Incidentals                  |                    | 68.09              |               | 1.00   | 2.00    |           | 136.18      |  |  |  |
| Means and indicentals Project Consumables         |                    | 38.55              |               | 1.00   | 2.00    |           | 77.10       |  |  |  |
| Printing and Binding                              |                    | 192.72             |               | 1.00   | 1.00    |           | 192.72      |  |  |  |
| Shipping  |                    | 205.56             |               |        |         |           | -           |  |  |  |
| Site Trailer                                      |                    | 154.17             |               |        |         |           | •           |  |  |  |
| Electrical Hook Up                                |                    | 963.59             |               |        |         |           | •           |  |  |  |
| Magazine Fencing                                  |                    | 1,927.17           |               |        |         |           | -           |  |  |  |
| Magazine Mobilization                             |                    | 899.35<br>770.87   |               |        |         |           | -           |  |  |  |
| Donor Explosives                                  |                    | 770.87             |               |        |         |           | -           |  |  |  |
| Site Remediation - Pine Farm                      |                    | 1,541.74<br>300.00 |               |        |         |           | •           |  |  |  |
| Subtotal - Other Direct Costs                     |                    | 300.00             |               |        |         |           | -<br>E00 00 |  |  |  |
| CHANGE - OHIGH DROW COSIS                         |                    |                    |               |        |         |           | 528.86      |  |  |  |

1,466.66

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Future Storage Barn

Task 6 Quality Control

| Future Storage  | Ham     |                    |       |        | Quality C | Control   |          |  |
|---|---------|--------------------|-------|--------|-----------|-----------|----------|--|
|   |         | Loaded             | Hours |        |           |           |          |  |
| Labor Category  |         | Hourly             | per   | Number | Number    | Estimated |          |  |
|   |         | Rate               | Week  | Weeks  | People    | Hours     | Amount   |  |
| Program Management I Project Manager III                        |         | 82.06              |       |        |           | -         | •        |  |
| Project Manager II  |         | 76.92<br>66.67     |       |        |           | -         | -        |  |
| Certified Industrial Hygienist                                  |         |                    |       |        |           | -         | -        |  |
| Engineer II   |         | 74.81<br>76.92     |       |        |           | •         | -        |  |
| Survey Manager  |         | 56.42              |       |        |           | •         | -        |  |
| Surveyor V  |         | 46.16              |       |        |           | •         | •        |  |
|   |         |                    |       |        |           |           |          |  |
| Quality Control Specialist                                      | Regular | 47.04              | 40.00 | 0.75   | 1.00      | 30.00     | 1,411,20 |  |
| Site Safety Officer   | Regular | 47.04              |       | •      |           | •         | -        |  |
| UXO Supervisor/Tech VI  | Regular | 53,29              |       |        |           | •         | _        |  |
| UXO Supervisor/Tech V   | Regular | 47.04              |       |        |           | •         | -        |  |
| UXO Technician IV   | Regular | 40.49              |       |        |           | _         |          |  |
| UXO Technician (II  | Regular | 34.10              | 40.00 | 0.75   | 1.00      | 30.00     | 1,023.00 |  |
| Laborer If  | Regular | 28.65              |       |        |           | -         |          |  |
| 40.   |         | . No. obj.         |       |        |           | -         | _        |  |
| Subtotal - L  | abor    | 10 1000 0000       |       |        |           | 60.00     | 2,434.20 |  |
|   |         | 4.6                |       |        |           |           |          |  |
|   |         | 474                |       |        |           |           |          |  |
| Other Direct Costs  |         | Loaded             |       | Number | Number    |           |          |  |
|   |         | Rate               |       | Weeks  | Units     |           | Amount   |  |
| FM Radio, Handheld w/ charger<br>FM Radio Repeater/Base Station |         | 25.69              |       | 1.00   | 1.00      |           | 25.69    |  |
| Cellular Telephone and Service                                  |         | 44.97              |       |        |           |           | •        |  |
| Video Camera  |         | 64.24              |       |        |           |           | •        |  |
| Computer  |         | 32.12<br>96.36     |       |        |           |           | •        |  |
| Brushoutter, power  |         | 96.36              |       |        |           |           | -        |  |
| Chainsaw  |         | 64.24              |       |        |           |           | •        |  |
| EOD Demolition Kit  |         | 51.39              |       |        |           |           | -        |  |
| Foester Ferrex Ordinance Locator                                |         | 385,43             |       |        |           |           | -        |  |
| Schonstedt Magnetic Locator                                     |         | 51,39              |       | 1.00   | 2.00      | •         | 102.78   |  |
| Explosive Storage magazine                                      |         | 44.97              |       | 1.00   |           |           | 102.76   |  |
| Carrier Phase GPS   |         | 899.35             |       |        |           |           |          |  |
| Burveyor's Kit  |         | 64.24              |       |        |           |           |          |  |
| Fotal Station Survey Equipment                                  |         | 835.11             |       |        |           |           |          |  |
| Ford Explorer   |         | 321.20             |       | 1.00   | 1,00      |           | 321.20   |  |
| Pickup, 4x4, 3/4 Ton  |         | 449.67             |       |        |           |           | -        |  |
| Air Fare - Round Trip   |         | 1,220.54           |       | 1.00   | 2.00      |           | 2,441.08 |  |
| Aileage   |         | 0.40               |       | 50.00  | 2.00      |           | 40.00    |  |
| Fuel  |         | 1.74               |       | 35.00  | 2.00      |           | 121.80   |  |
| .odging   |         | 68.09              |       | 3.00   | 2.00      |           | 408.54   |  |
| Aeals and Incidentals   |         | 38.55              |       | 3.00   | 2.00      |           | 231,30   |  |
| roject Consumables  |         | 192.72             |       | 1.00   | 1.00      |           | 192.72   |  |
| Printing and Binding  |         | 205.56             |       |        |           |           | •        |  |
| Shipping  |         | 154.17             |       |        |           |           | -        |  |
| ide Trailer   | V 11.5  | 963.59             |       |        |           |           | -        |  |
| Heatrical Hook Up   |         | 1,927.17           |       |        |           |           | •        |  |
| łagazine Fencing<br>łagazine Mobilization                       |         | 899.35             |       |        |           | 100       | •        |  |
| regazme woonzauon<br>Jonor Explosives                           |         | 770.87             |       |        |           |           | -        |  |
| ite Remediation - Pine Farm                                     |         | 1,541.74<br>300.00 |       |        |           |           | -        |  |
| Subtotal - Other Direct Co                                      | nete    | 300.00             |       |        |           |           | 2 005 44 |  |
| CONSTRUCTION DISCONDING   | ·····   |                    |       |        |           |           | 3,885,11 |  |
| Total Estimated Co  | osis    |                    |       |        |           |           | 6 240 24 |  |
| row London O  |         |                    |       |        |           |           | 6,319.31 |  |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Fifther Stotage Ram

**EOD Demoktion Kit** 

Carrier Phase GPS

Pickup, 4x4, 3/4 Ton

Air Fare - Round Trip

Meals and Incidentals

**Project Consumables** 

Printing and Binding

Electrical Hook Up

Magazine Fencing

Donor Explosives

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

Total Estimated Costs

Surveyor's Kit

Ford Explorer

Mileage

Lodging

Shipping

Site Trailer

Fuel

Foester Ferrex Ordnance Locator

Schonstedt Magnetic Locator

Explosive Storage magazine

**Total Station Survey Equipment** 

| Pine Farm - Clearance of OE<br>Future Storage Barn |         |                          |                      | Task 9<br>Final Report |                  |                    |           |
|--|---------|--------------------------|----------------------|------------------------|------------------|--------------------|-----------|
| Labor Category                                     |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weaks        | Number<br>People | Estimated<br>Hours | Amount    |
| Program Management I                               |         | 82.06                    | 42.00                | 0.25                   | 1.00             | 10.50              | 861.63    |
| Project Manager III                                |         | 76.92                    |                      |                        |                  | -                  | •         |
| Project Manager If                                 |         | 66.67                    | 42.00                | 2.00                   | 1.00             | 84.00              | 5,600.28  |
| Certified Industrial Hygienist                     |         | 74.81                    |                      |                        |                  | •                  | -         |
| Engineer II  |         | 76.92                    | 42.00                | 0.75                   | 1,00             | 31.50              | 2,422.98  |
| Survey Manager                                     |         | 56.42                    | 42.00                | 1.00                   | 1,00             | 42.00              | 2,369.64  |
| Surveyor V   |         | 46.16                    |                      |                        |                  | •                  | -         |
|  |         |                          |                      |                        | :1               |                    |           |
| Quality Control Specialist                         | Regular | 47.04                    |                      |                        |                  | •                  | -         |
| Site Safety Officer                                | Regular | 47.04                    |                      |                        |                  | •                  |           |
| UXO Supervisor/Tech VI                             | Regular | 53.29                    |                      |                        |                  | -                  | •         |
| UXO Supervisor/Tech V                              | Regular | 47,04                    |                      |                        |                  | -                  |           |
| UXO Technician IV                                  | Regular | 40.49                    |                      |                        |                  | -                  | •         |
| UXO Technician III                                 | Regular | 34.10                    |                      |                        |                  | -                  |           |
| Laborer II   | Regular | 28.65                    |                      |                        |                  | -                  | -         |
|  |         |                          |                      |                        |                  | -                  |           |
| Subtotal - L                                       | node.   |                          |                      |                        |                  | 168.00             | 11,254.53 |
|  |         |                          |                      |                        |                  |                    |           |
|  |         | Loaded                   |                      | Number                 | Number           |                    |           |
| Other Direct Costs                                 | _       | Rate                     |                      | Weeks                  | Units            | ,                  | Amount    |
| FM Radio, Handheld w/ charger                      |         | 25.69                    |                      |                        |                  |                    |           |
| FM Radio Repeater/Base Station                     |         | 44.97                    |                      |                        |                  |                    | _         |
| Cellular Telephone and Service                     |         | 64.24                    |                      |                        |                  |                    |           |
| Video Camera                                       |         | 32.12                    |                      |                        |                  |                    |           |
| Computer   |         | 96.36                    |                      |                        |                  |                    | -         |
| Brushoutter, power                                 |         | 96.36                    |                      |                        |                  |                    | -         |
| Chainsaw   |         | 64.24                    |                      |                        |                  |                    | _         |
| COD D 195 195                                      |         |                          |                      |                        |                  |                    | -         |

51,39

385.43

51.39

44.97

899.35

64,24

835,11

321,20

449.67

0.40

1.74

68.09

38.55

192.72

205.56

154.17

963.59

1,927.17

899.35

770.87

300.00

1,541.74

1.00

2.00

1,220.54

411.12

411.12

11,665.65

Corps of Engineers
Camp Croft, Sparterburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Clearance of OE
Future Storage Barn

Task 10 Site Restoration

| Labor Category                 |  | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week                    | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |
|--------------------------------|--|--------------------------|---|-----------------|------------------|--------------------|--------|
| Program Management I           |  | 82.06                    |   | •               |                  | -                  |        |
| Project Manager III            |  | 76.92                    |   |                 |                  | _                  | _      |
| Project Manager II             | P 1 3  | 66.67                    |   |                 |                  |                    | _      |
| Certified Industrial Hygienist |  | 74.81                    |   |                 |                  |                    | _      |
| Engineer II                    |  | 76.92                    |   |                 |                  |                    | _      |
| Survey Manager                 | 10 and 10 | 56.42                    |   |                 |                  | _                  | _      |
| Surveyor V                     |  | 46.16                    |   |                 |                  | _                  | _      |
|                                |  |                          | *************************************** |                 |                  |                    |        |
| Quality Control Specialist     | Regular  | 47.04                    |   |                 |                  |                    |        |
| Site Safety Officer            | Regular  | 47.04                    |   |                 |                  | _                  | _      |
| UXO Supervisor/Tech VI         | Regular  | 53,29                    |   |                 |                  | _                  | -      |
| JXO Supervisor/Tech V          | Regular  | 47.04                    |   |                 |                  | _                  | _      |
| JXO Technician IV              | Regular  | 40.49                    |   |                 |                  | _                  | _      |
| JXO Technician III             | Regular  | 34.10                    |   |                 |                  |                    | _      |
| aborer II                      | Regutar  | 28.65                    |   |                 |                  |                    |        |
| Array (                        |  |                          |   |                 |                  | _                  | -      |

Subtotal - Labor

| 1001 00 W                       |         |          |   |        |        |     |        |
|---------------------------------|---------|----------|---|--------|--------|-----|--------|
|                                 |         | Loaded   |   | Number | Number |     |        |
| Other Direct Costs              |         | Rate     |   | Weeks  | Units  |     | Amount |
| FM Radio, Handheld w/ charger   |         | 25.69    |   |        |        |     |        |
| FM Radio Repeater/Base Station  | 18.0    | 44.97    |   |        |        |     | _      |
| Cellular Telephone and Service  | N. W.   | 64.24    |   | •      |        |     |        |
| Video Camera                    |         | 32.12    |   |        |        |     |        |
| Computer                        |         | 96.36    |   |        |        |     | _      |
| Brushcutter, power              |         | 96.36    |   |        |        |     |        |
| Chainsaw                        |         | 64.24    |   |        |        |     |        |
| EOD Demolition Kill             |         | 51.39    |   |        |        |     |        |
| Foester Ferrex Ordnance Locator | 1. Mar. | 385.43   |   |        |        |     | _      |
| Schonstedt Magnetic Locator     | 814     | 51.39    |   |        |        |     |        |
| Explosive Storage magazine      |         | 44.97    |   |        |        |     |        |
| Carrier Phase GPS               |         | 899.35   |   |        |        |     | _      |
| Surveyor's Kit                  |         | 64.24    |   |        |        |     |        |
| Total Station Survey Equipment  |         | 835,11   |   |        |        |     | ·      |
| Ford Explorer                   |         | 321.20   |   |        |        |     | •      |
| Pickup, 4x4, 3/4 Ton            |         | 449.67   |   |        |        |     | •      |
| Air Fare - Round Trip           |         | 1,220.54 |   |        |        |     | · ·    |
| Mileage                         |         | 0.40     |   |        |        |     | _      |
| Fuel                            |         | 1.74     |   |        |        |     | •      |
| Lodging                         |         | 68.09    |   |        | 1      |     | •      |
| Meats and Incidentals           |         | 38.55    |   |        |        |     | -      |
| Project Consumables             |         | 192.72   | : |        |        |     | -      |
| Printing and Binding            |         | 205.56   |   |        |        |     | -      |
| Shipping                        |         | 154.17   |   |        |        |     | •      |
| Site Trailer                    |         | 963.59   |   |        |        |     | -      |
| Electrical Hook Up              |         | 1,927.17 |   |        |        |     | -      |
| Magazine Fencing                |         | 899.35   |   |        |        |     | -      |
| Magazine Mobilization           |         | 770.87   |   |        |        |     | •      |
| Donor Explosives                |         | 1,541.74 |   |        | 1      |     | _      |
| Site Remediation - Pine Farm    |         | 300.00   |   | 1.00   | 1.00   |     | 300.00 |
| Subtotal - Other Direct C       | Costs   |          |   | 1,00   | 1.00   | 2.0 | 300.00 |
|                                 |         |          |   |        |        |     | 300.00 |
| Total Estimated C               | costs   |          |   |        |        |     | 300.00 |
|                                 |         |          |   |        |        |     | 300.00 |

#### Pine Farm

# Alternative 3 - Surface Clearance of OE

Alternative 3 requires a complete OE surface clearance of 38.94 acres. Electronic detection instruments are necessary to detect OE hidden from view by high grasses and terrain. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are extensive and based solely on the production achieved during the Engineering Design effort. It is assumed that 80% of the total grids will require brush clearance. During the Engineering Design effort, 2.47 acres were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for the effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage/grids to Surface Clear:

38.94 acres/170 (100' X100') search grids

Total Acreage Previously Geophysically Investigated:

2.47

Adjusted acreage:

36.47 acres

Adjusted number of grids

136

Grids Requiring Brush Clearance

108 grids/24.79 acres

Search Grid Size: 100' X 100'

.22 acres per grid

Production Rates:

Brush Clearance

3 grids per day per four man team (6 grids per day) 14 grids per day per two person team (1 team)

Land Survey Surface Clearance

8.71 grids per day (2 acres) per 5 person team (2 teams@17.42 grids

per workday)

Duration:

Project Management

26 working days/6.5 weeks

Land Survey

13 working days/3.25 weeks (one team)

Brush Clearance

14 working days/3.5 weeks -- 4 grids per work day per four-person

team (two teams @ 8 grids per workday)

Surface Clearance

7.81 (8) working days/2 weeks (two five-person teams)

Disposal

Effort included in Surface Clearance

Quality Control

8 working days/2 weeks (2 person team)

Total Duration

26 Working Days/6.5 weeks

#### Surface Clearance of OE - Alternative 3

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm - Surface Clearance of Œ

|                                |         |                          |                      |                 | 8                | m mary             |            |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|------------|--|
| Labor Category                 |         | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount     |  |
| Program Management I           |         | 82.06                    |                      |                 |                  | 39,90              | 3,274.19   |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  | 273.00             | 20,999.16  |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | 201.60             | 13,440.67  |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | 16.00              | 1,196.96   |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  | 63.00              | 4,845.96   |  |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | 159.60             | 9,004.63   |  |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | 136.50             | 6,300.84   |  |
|                                |         |                          |                      |                 |                  |                    |            |  |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | 80.00              | 3,763.20   |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | 260.00             | 12,230.40  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | 352.00             | 18,758.08  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | 160.00             | 7,526.40   |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | 940.00             | 38,060.60  |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | 210.00             | 7,161.00   |  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | 840.00             | 24,086.00  |  |
|                                |         |                          |                      |                 |                  | <u>-</u>           |            |  |
| Subtotal - L                   | abor    |                          |                      |                 |                  | 3,731.60           | 170,628.09 |  |

|   | Loaded   | Number Number |              |
|---|----------|---------------|--------------|
| Other Direct Costs                      | Rate     | Weeks Units   | Amount       |
| FM Radio, Handheld w/ charger           | 25.69    |               | 500.96       |
| FM Radio Repeater/Base Station          | 44.97    |               | 1,169.22     |
| Cellular Telephone and Service          | 64.24    |               | 468.95       |
| Video Camera                            | 32.12    |               | 234.48       |
| Computer                                | 96.36    |               | 1,035.87     |
| Brushcutter, power                      | 96.36    |               | 1,349.04     |
| Chainsaw                                | 64.24    |               | 449.68       |
| EOD Demotition Kit                      | 51.39    |               | 102.78       |
| Foester Ferrex Ordnance Locator         | 385.43   |               | 308.34       |
| Schonstedt Magnetic Locator             | 51.39    |               | 1,554.55     |
| Explosive Storage magazine              | 44.97    |               | 876.92       |
| Carrier Phase GPS                       | 899,35   |               | 899.35       |
| Surveyor's Kit                          | 64.24    |               | 208.78       |
| Total Station Survey Equipment          | 835.11   |               | 626.33       |
| Ford Explorer                           | 321.20   |               | 8,784.82     |
| Pickup, 4x4, 3/4 Ton                    | 449.67   |               | 3,260.11     |
| Air Fare - Round Trip                   | 1,220.54 |               | 12,205.40    |
| Mileage                                 | 0.40     |               | 980.00       |
| Fuel                                    | 1.74     |               | 2,385.54     |
| Lodging                                 | 68.09    |               | 29,585.11    |
| Meals and Incidentals                   | 38.55    |               | 17,019.83    |
| Project Consumables .                   | 192.72   |               | 7,535.35     |
| Printing and Binding                    | 205.56   |               | 1,438.92     |
| Shipping                                | 154.17   |               | 616.68       |
| Site Trailer                            | 963.59   |               | 1,570.65     |
| Electrical Hook Up                      | 1,927.17 |               | 1,927.17     |
| Magazine Fencing                        | 899.35   |               | 899.35       |
| Magazine Mobilization                   | 770.87   |               | 770.87       |
| Donor Explosives                        | 1,541.74 |               | 770.87       |
| Site Remediation - Pine Farm            | 500.00   |               | 500.00       |
| Subtotal - Other Direct Costs           |          |               | 100,035.92   |
| T 1 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T |          |               | 470 40 1 2 1 |
| Total Estimated Costs                   |          |               | 270,684.01   |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Surface Clearance of OE

Task 1 Site Violt

|   |           |                    |       | Site Vielt |        |           |          |
|---|-----------|--------------------|-------|------------|--------|-----------|----------|
|   |           | Londed             | Hours |            |        |           |          |
|   |           | Hourly             | per   |            | Number | Estimated |          |
| Labor Category                          | _         | Rate               | Week  | Weeks      | People | Hours     | Amount   |
| Program Management I                    |           | 82.06              | 42.00 | 0.20       | 1.00   | 8.40      | 689.30   |
| Project Manager III                     |           | 76.92              |       |            |        | -         |          |
| Project Manager II                      |           | 66.67              | 42.00 | 0.80       | 1.00   | 33.60     | 2,240.11 |
| Certified Industrial Hygienist          |           | 74.81              |       |            |        | -         | •        |
| Engineer II                             |           | 76.92              |       |            |        |           | •        |
| Survey Manager                          |           | 56.42              |       |            |        |           | -        |
| Surveyor V                              |           | 46.16              |       |            |        | -         | -        |
| Out like On the Out of the              | Decides   | 47.04              |       |            |        |           |          |
| Quality Control Specialist              | Regular   | 47.04              |       |            |        | •         | -        |
| Site Safety Officer                     | Regular   | 47,04              | 40.00 | 2.00       | 4.00   | -         | 4 705 39 |
| UXO Supervisor/Tech VI                  | Regular   | 53.29              | 40.00 | 0.80       | 1.00   | 32.00     | 1,705.28 |
| UXO Supervisor/Tech V                   | Regular   | 47,04              |       |            |        | -         | -        |
| UXO Technician IV                       | Regular   | 40.49              |       |            |        | -         | -        |
| UXO Technician III                      | Regular   | 34.10              |       |            |        | -         | -        |
| Laborer II                              | Regular   | 28.65              |       |            |        | +         | -        |
| Subtotal - Labo                         |           |                    |       |            |        | 74.00     | 4,634,69 |
| Guntai - Laot                           |           |                    |       |            |        | 74.00     | 4,034.08 |
|   |           |                    |       |            |        |           |          |
| -                                       |           | Loaded             |       | Number     | Number |           |          |
| Other Direct Costs                      |           | Rate               |       | Weeks      | Units  |           | Amount   |
| FM Radio, Handheld w/ charger           |           | 25.69              |       |            |        |           |          |
| FM Radio Repeater/Base Station          |           | 44.97              |       |            |        |           |          |
| Cellular Telephone and Service          | ŀ         | 64.24              |       | 0.80       | 1.00   |           | 51.39    |
| Video Camera                            |           | 32.12              |       | 0.80       | 1.00   |           | 25.70    |
| Computer                                |           | 96.36              |       |            |        |           |          |
| Brushcutter, power                      |           | 96.36              |       |            |        |           | _        |
| Chainsaw                                |           | 64.24              |       |            |        |           | -        |
| EOD Demolition Kit                      |           | 51,39              |       |            |        |           | -        |
| Foester Ferrex Ordnance Locator         |           | 385.43             |       | 0.80       | 1.00   |           | 308.34   |
| Schonstedt Magnetic Locator             |           | 51.39              |       |            |        |           | -        |
| Explosive Storage magazine              |           | 44.97              |       |            |        |           | -        |
| Carrier Phase GPS                       |           | 899.35             |       |            |        |           | -        |
| Surveyor's Kit                          |           | 84.24              |       |            |        |           | -        |
| Total Station Survey Equipment          |           | 835.11             |       |            |        |           | •        |
| Ford Explorer                           |           | 321.20             |       | 2.00       | 0.80   |           | 513.92   |
| Pickup, 4x4, 3/4 Ton                    |           | 449,67             |       |            |        |           | •        |
| Air Fare - Round Trip                   |           | 1,220.54           |       | 1.00       | 2.00   |           | 2,441.08 |
| Mileage                                 |           | 0.40               |       | 50.00      | 2.00   |           | 40.00    |
| Fuel                                    |           | 1.74               |       | 5.00       | 8.00   |           | 69.60    |
| Lodging                                 |           | 68.09              |       | 4.00       | 2.00   |           | 544.72   |
| Meals and Incidentals                   |           | 38.55              |       | 5.00       | 2.00   |           | 385.50   |
| Project Consumables                     |           | 192.72             |       | 1.00       | 1.00   |           | 192.72   |
| Printing and Binding                    | ļ         | 205.56             |       |            |        |           | -        |
| Shipping<br>Site Trailer                |           | 154.17             |       |            |        |           | -        |
| Site Trailer                            |           | 983,59             |       |            |        |           | -        |
| Electrical Hook Up                      |           | 1,927.17           |       |            |        |           | -        |
| Magazine Fencing                        |           | 899.35             |       |            |        |           | ,        |
| Magazine Mobilization  Donor Explosives |           | 770.87             |       | l          |        |           | -        |
| Site Remediation - Pine Farm            |           | 1,541.74<br>500.00 |       |            |        |           | · ·      |
| Subtotal - Other Direct Cost            |           | 500.00             |       | !          |        |           | 4,572,97 |
| Sastota, Other Direct 00\$1             |           |                    |       |            |        |           | 7,3/2.8/ |
| Total Estimated Cost                    | . <b></b> |                    |       |            |        |           | 9,207.66 |
|   |           |                    |       |            |        |           | -,,      |

# Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm - Surface Clearance of OE

Task 2 Week Plan

| Pine Farm - Surface Clearance of OE   |             |       | 10FR 4 |        |           |           |
|---------------------------------------|-------------|-------|--------|--------|-----------|-----------|
|                                       |             |       |        | ¥      | Verk Plan |           |
|                                       | Localed     | Heurs |        |        |           |           |
|                                       | Honely      | per   |        | Number | Estimated | _         |
| Labor Catagory                        | Rate        | Week  | Weeks  | People | lleure    | Ameunt    |
| Program Management I                  | 62.06       | 42.00 | 0.50   | 1.00   | 21.00     | 1,723.26  |
| Project Manager III                   | 76.92       |       |        |        | •         | -         |
| Project Manager II                    | 66.67       | 42.00 | 2.00   | 1.00   | 84.00     | 5,600.28  |
| Certified Industrial Hygienist        | 74.81       | 40.00 | 0.40   | 1.00   | 16.00     | 1,196.96  |
| Engineer II                           | 78.92       | 42.00 | 0.50   | 1.00   | 21.00     | 1,615.32  |
| Survey Manager                        | 56.42       | 42.00 | 0.60   | 1.00   | 33.60     | 1,895.71  |
| Surveyor V                            | 46.16       |       |        |        |           | -         |
|                                       |             |       |        |        |           |           |
|                                       | jular 47.04 |       |        |        | -         | •         |
| -                                     | jular 47.04 |       |        |        | -         | -         |
| · · · · · · · · · · · · · · · · · · · | Jular 53,29 | 40.00 | 1.00   | 1.00   | 40.00     | 2,131.60  |
|                                       | Jular 47.04 |       |        |        | -         | -         |
| -                                     | jular 40.49 |       |        |        | -         | -         |
| UXO Technician III Reg                | jular 34.10 |       |        |        | -         | -         |
| Laborer II Reg                        | ular 26.65  |       |        |        | -         | -         |
|                                       |             |       |        |        | _         | -         |
| Subtotal - Labor                      |             |       |        |        | 215.60    | 14,163.13 |
|                                       |             |       |        |        |           |           |
|                                       |             |       |        |        |           |           |
|                                       | Loaded      |       | Number | Number |           |           |
| Other Direct Costs                    | Rate        |       | Weeks  | Units  |           | Amount    |
| FM Radio, Handheld w/ charger         | 25.69       |       |        |        |           |           |
| FM Radio Repeater/Base Station        | 44.97       |       |        |        |           | -         |
| Cellular Telephone and Service        | 64.24       |       | 1      |        |           | -         |
| Video Camera                          | 32.12       |       | ŀ      |        |           | -         |
| Computer                              | 96.36       |       | 1.00   | 1.00   |           | 96.36     |
| Brushcutter, power                    | 96.36       |       |        |        |           | -         |
| Chainsaw                              | 64.24       |       |        |        |           | -         |
| EOD Demolition Kit                    | 51.39       |       |        |        |           | -         |
| Foester Ferrex Ordnance Locator       | 385.43      |       |        |        |           | -         |
| Schonstedt Magnetic Locator           | 51.39       |       |        |        |           | -         |
| Explosive Storage magazine            | 44.97       |       |        | •      |           | -         |
| Carrier Phase GPS                     | 899.35      |       |        | :      |           | •         |
| Surveyor's Kit                        | 64.24       |       |        |        |           | -         |
| Total Station Survey Equipment        | 835.11      |       |        |        |           | -         |
| Ford Explorer                         | 321.20      |       | 1.00   | 1.00   |           | 321.20    |
| Pickup, 4x4, 3/4 Ton                  | 449.67      |       |        |        |           | •         |
| Alr Fare - Round Trip                 | 1,220.54    |       | 1.00   | 1.00   |           | 1,220.54  |
| Mileage                               | 0.40        |       | 50.00  | 1.00   |           | 20.00     |
| Fuel                                  | 1.74        |       | 1.00   | 40.00  |           | 69.60     |
| Lodging                               | 66.09       |       | 6.00   | 1.00   |           | 408.54    |
| Meals and Incidentals                 | 38.55       |       | 7.00   | 1,00   |           | 269.85    |
| Project Consumables                   | 192.72      |       | 8.00   | 1.00   |           | 1,541.76  |
| Printing and Binding                  | 205.56      |       | 1.00   | 2.00   |           | 411.12    |
| Shipping                              | 154.17      |       |        |        |           | -         |
| Site Trailer                          | 963.59      |       |        |        |           | -         |
| Electrical Hook Up                    | 1,927,17    |       |        |        |           |           |
| Magazine Fencing                      | 899.35      |       | l      |        |           | •         |
| Magazine Mobilization                 | 770.87      |       |        |        |           | -         |
| Donor Explosives                      | 1,541.74    |       |        |        |           | -         |
| Site Remediation - Pine Farm          | 500.00      |       | f      |        |           |           |
|                                       | 500.00      |       |        |        |           |           |
| Subtotal - Other Direct Costs         | 300.00      |       |        |        |           | 4,358.97  |
| Subtotal - Other Direct Costs         | 300.00      |       |        |        |           | 4,358.97  |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Surface Clearance of O£

Task 3

| Pine Farm - Surface Clearance of OE |            |       |          | 3      |              |            |
|-------------------------------------|------------|-------|----------|--------|--------------|------------|
|                                     |            |       |          | 8      | ite Manageme | <b>n</b> t |
|                                     | Loaded     | Hours |          |        |              |            |
|                                     | Henely     | per   | Number   | Number | Estimated    |            |
| Labor Category                      | Rate       | Week  | Weeks    | People | Hours        | Amount     |
| Program Management I                | 82.06      |       |          |        | •            | •          |
| Project Manager III                 | 76.92      | 42.00 | 6.50     | 1.00   | 273.00       | 20,999.16  |
| Project Manager II                  | 66.67      |       |          |        | -            | -          |
| Certified Industrial Hygienist      | 74.81      |       |          |        | -            | -          |
| Engineer (I                         | 76.92      |       |          |        | -            | -          |
| Survey Manager                      | 56.42      |       |          |        | -            | -          |
| Surveyor V                          | 46.16      |       |          |        | -            | -          |
|                                     |            |       |          |        |              |            |
| Quality Control Specialist Reg      | ular 47.04 |       |          |        | -            | -          |
| Site Safety Officer Reg             | ular 47.04 | 40.00 | 6.50     | 1.00   | 260.00       | 12,230.40  |
| UXO Supervisor/Tech VI Reg          | ular 53.29 | 40.00 | 6.50     | 1,00   | 260.00       | 13,855.40  |
| UXO Supervisor/Tech V Reg           | ular 47.04 |       |          |        | -            | -          |
| UXO Technician IV Reg               | ular 40,49 |       |          |        | -            | •          |
| UXO Technician III Regi             | ular 34.10 |       |          |        | -            | -          |
| Laborer II Regi                     | ular 28.65 |       |          |        | -            | -          |
|                                     |            |       |          |        | •            | •          |
| Subtotal - Labor                    |            |       |          |        | 793.00       | 47,084.96  |
|                                     |            |       |          |        |              |            |
|                                     |            |       |          |        |              |            |
|                                     | Loaded     |       | Number   | Number |              |            |
| Other Direct Costs                  | Rate       |       | Weeks    | Units  |              | Amount     |
| FM Radio, Handheld w/ charger       | 25.69      |       |          |        |              | •          |
| FM Radio Repeater/Base Station      | 44.97      |       | 6.50     | 4.00   |              | 1,169.22   |
| Cellular Telephone and Service      | 64.24      |       | 6.50     | 1.00   |              | 417.56     |
| Video Camera                        | 32.12      |       | 6.50     | 1.00   |              | 208.78     |
| Computer                            | 96,36      |       | 6.50     | 1.00   |              | 626,34     |
| Brushcutter, power                  | 96.36      |       |          |        |              | -          |
| Chainsaw                            | 64.24      |       |          |        |              | -          |
| EOD Demolition Kit                  | 51.39      |       |          |        |              | _          |
| Foester Ferrex Ordnance Locator     | 385,43     |       |          |        |              | -          |
| Schonstedt Magnetic Locator         | 51.39      |       |          |        |              | -          |
| Explosive Storage magazine          | 44.97      |       | 6.50     | 3.00   |              | 876.92     |
| Carrier Phase GPS                   | 899.35     |       |          |        |              | -          |
| Surveyor's Kit                      | 64.24      |       |          |        |              | -          |
| Total Station Survey Equipment      | 835.11     |       |          |        |              | _          |
| Ford Explorer                       | 321.20     |       | 6.50     | 3.00   |              | 6,263.40   |
| Pickup, 4x4, 3/4 Ton                | 449.67     |       |          |        |              | -          |
| Air Fare - Round Trip               | 1,220.54   |       | 1.00     | 3.00   |              | 3,661.62   |
| Mileage                             | 0.40       |       | 2,000.00 | 1.00   |              | 800.00     |
| Fue!                                | 1.74       |       | 820.00   | 1.00   |              | 1,426.80   |
| Lodging                             | 68.09      |       | 21.00    | 6.50   |              | 9,294,29   |
| Meals and Incidentals               | 38.55      |       | 21.00    | 6.50   |              | 5,262.08   |
| Project Consumables                 | 192.72     |       | 10.25    | 1.00   |              | 1,975.38   |
| Printing and Binding                | 205.56     |       | 2.00     | 1.00   |              | 411.12     |
| Shipping                            | 154.17     |       | 1.00     | 3.00   |              | 482.51     |
| Site Trailer                        | 963.59     |       | 1.63     | 1.00   |              | 1,570.65   |
| Electrical Hook Up                  | 1,927.17   |       | 1.00     | 1.00   |              | 1,927.17   |
| Magazine Fencing                    | 899.35     |       | 1.00     | 1.00   |              | 899.35     |
| Magazine Mobilization               | 770.87     |       | 1.00     | 1.00   |              | 770.87     |
| Donor Explosives                    | 1,541.74   |       |          |        |              |            |
| Site Remediation - Pine Farm        | 500.00     |       |          |        |              |            |
| Subtotal - Other Direct Costs       |            |       |          |        |              | 38,024.06  |

Total Estimated Costs

85,109.02

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm - Surface Clearance of OE

Task 4

|                                |         |                          |                      |                 |                  | Land Survey        |           |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Category                 |         | Loaded<br>Hearly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |
| Program Management I           |         | 82.06                    |                      |                 |                  | -                  | -         |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  | •         |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  | -         |
| Certified Industrial Hygienist |         | 74,81                    |                      |                 |                  | -                  |           |
| Engineer II                    |         | 76.92                    |                      |                 |                  | -                  | -         |
| Survey Manager                 |         | 56.42                    | 42.00                | 1.00            | 1.00             | 42.00              | 2,369.64  |
| Surveyor V                     |         | 46.16                    | 42.00                | 3.25            | 1.00             | 136.50             | 6,300.84  |
|                                |         |                          |                      |                 |                  |                    |           |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | -                  | -         |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | -                  | -         |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | •                  | -         |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | _                  | -         |
| UXO Technician IV              | Regular | 40,49                    |                      |                 |                  | •                  | _         |
| UXO Technician III             | Regular | 34.10                    | 40.00                | 3.25            | 1.00             | 130.00             | 4,433.00  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | •                  | -         |
|                                |         |                          |                      |                 |                  | -                  | -         |
| Subtotal - L                   | abor    |                          |                      |                 |                  | 308.50             | 13,103.48 |

|                                 | Loaded   | Number | Number |           |
|---------------------------------|----------|--------|--------|-----------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount    |
| FM Radio, Handheld w/ charger   | 25.69    | 3.25   | 2.00   | 166.99    |
| FM Radio Repeater/Base Station  | 44.97    |        |        | -         |
| Cellular Telephone and Service  | 64.24    |        |        | -         |
| Video Camera                    | 32.12    |        |        | _         |
| Computer                        | 96.36    | 3.25   | 1.00   | 313.17    |
| Brushcutter, power              | 96.36    |        |        | _         |
| Chainsaw                        | 64.24    |        |        | -         |
| EOD Demolition Kit              | 51.39    |        |        | -         |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | -         |
| Schonstedt Magnetic Locator     | 51.39    | 3.25   | 1.00   | 167.02    |
| Explosive Storage magazine      | 44.97    |        |        | -         |
| Carrier Phase GPS               | 899.35   | 0.50   | 2.00   | 699.35    |
| Surveyor's Kit                  | 64.24    | 3.25   | 1.00   | 208.78    |
| Total Station Survey Equipment  | 835.11   | 0.75   | 1.00   | 626.33    |
| Ford Explorer                   | 321.20   | 3.25   | 1.00   | 1,043.90  |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | _         |
| Air Fare - Round Trip           | 1,220.54 | 1.00   | 2.00   | 2,441.08  |
| Miteage                         | 0.40     | 50.00  | 2.00   | 40.00     |
| Fuel                            | 1.74     | 45.00  | 1.00   | 78.30     |
| Lodging                         | 68.09    | 23.00  | 2.00   | 3,132,14  |
| Meals and Incidentals           | 38.55    | 25.00  | 2.00   | 1,927.50  |
| Project Consumables             | 192.72   | 3.25   | 1.00   | 626.34    |
| Printing and Binding            | 205.56   | 1.00   | 1.00   | 205.56    |
| Shipping                        | 154.17   | 1.00   | 1.00   | 154,17    |
| Site Trailer                    | 963.59   |        |        | -         |
| Electrical Hook Up              | 1,927.17 |        |        |           |
| Magazine Fencing                | 899.35   |        |        | •         |
| Magazine Mobilization           | 770,87   |        |        | -         |
| Donor Explosives                | 1,541.74 |        |        | •         |
| Site Remediation - Pine Farm    | 500.00   |        |        | -         |
| Subtotal - Other Direct Costs   |          |        |        | 12,030.63 |
|                                 |          |        |        |           |
| Total Estimated Costs           |          |        |        | 25,134.11 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
ine Farm - Surface Clearance of CE

| Camp Croit, Spanemong, 5.          |         |        |       |        |        |             |           |
|------------------------------------|---------|--------|-------|--------|--------|-------------|-----------|
| Engineering Design Cost Estima     |         |        |       |        | Task   |             |           |
| Pine Farm - Surface Clearance of C | ΣE      |        |       |        |        |             |           |
|                                    |         |        |       |        | Brus   | h Clearanee |           |
|                                    |         | Landed | Haurs |        |        |             |           |
|                                    |         | Hourly | bec   | Number | Number | Betimated   |           |
| Labor Category                     |         | Rate   | Week  | Weeks  | People | Hours       | Amount    |
| Program Management I               |         | 82.06  |       |        |        | -           | -         |
| Project Manager III                |         | 76.92  |       |        |        | -           | -         |
| Project Manager II                 |         | 66.67  |       |        |        | -           | -         |
| Certified Industrial Hygienist     |         | 74.81  |       |        |        | -           | -         |
| Engineer II                        |         | 76.92  |       |        |        |             | -         |
| Survey Manager                     |         | 56.42  |       |        |        | -           | -         |
| Surveyor V                         |         | 46.16  |       |        |        | -           | -         |
|                                    |         |        |       |        |        |             |           |
| Quality Control Specialist         | Regular | 47.04  | ,     |        |        | -           |           |
| Site Safety Officer                | Regular | 47.04  |       |        |        | -           | -         |
| UXO Supervisor/Tech VI             | Regular | 53.29  |       |        |        | •           |           |
| UXO Supervisor/Tech V              | Regular | 47.04  |       |        |        | -           | -         |
| UXO Techniciaπ IV                  | Regular | 40.49  | 40.00 | 3.50   | 2.00   | 280.00      | 11,337.20 |
| UXO Technician III                 | Regular | 34.10  |       |        |        | -           | -         |
| Laborer II                         | Regular | 28.65  | 40.00 | 3.50   | 6.00   | 840.00      | 24,066.00 |
|                                    |         |        |       |        |        |             | _         |
| Subtotal - Lab                     | ог      |        |       |        |        | 1,120.00    | 35,403.20 |
|                                    |         |        |       |        |        |             |           |
|                                    |         |        |       |        |        |             |           |
|                                    |         | Loaded |       | Number | Number |             |           |
| Other Direct Costs                 |         | Rate   |       | Weeks  | Units  |             | Amount    |
| FM Radio, Handheld w/ charger      |         | 25.69  |       | 3.50   | 2,00   |             | 179.83    |
| FM Radio Repeater/Base Station     |         | 44.97  |       |        |        |             |           |
| Cellular Telephone and Service     |         | 64,24  |       |        |        |             | _         |
| Video Camera                       |         | 32.12  |       |        |        |             |           |
| Computer                           |         | 96,36  |       |        |        |             | _         |
| Brushcutter, power                 |         | 96.36  |       | 3,50   | 4.00   |             | 1,349.04  |
| Chainsaw                           |         | 64.24  |       | 3.50   | 2.00   |             | 449.68    |
|                                    |         |        |       | -,     |        |             | , ,,,,,,  |

|                                 | Loaded   | Number | Number |           |
|---------------------------------|----------|--------|--------|-----------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount    |
| FM Radio, Handheld w/ charger   | 25.69    | 3.50   | 2.00   | 179.83    |
| FM Radio Repeater/Base Station  | 44.97    |        |        |           |
| Cellular Telephone and Service  | 64,24    |        |        | _         |
| Vídeo Camera                    | 32.12    |        |        | •         |
| Computer                        | 96.36    |        |        | -         |
| Brushcutter, power              | 96.36    | 3,50   | 4.00   | 1,349.04  |
| Chainsaw                        | 64.24    | 3.50   | 2.00   | 449.68    |
| EOD Demolition Kit              | 51.39    |        |        | _         |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | _         |
| Schonstedt Magnetic Locator     | 51.39    | 3.50   | 2.00   | 359.73    |
| Explosive Storage magazine      | 44.97    |        |        | -         |
| Carrier Phase GPS               | 899.35   |        |        | <u>.</u>  |
| Surveyor's Kit                  | 64,24    |        |        | <u>-</u>  |
| Total Station Survey Equipment  | 835,11   |        |        | _         |
| Ford Explorer                   | 321,20   |        |        | _         |
| Pickup, 4x4, 3/4 Ton            | 449.67   | 3.50   | 2.00   | 3,147.69  |
| Alr Fare - Round Trip           | 1,220,54 |        |        | •         |
| Mileage                         | 0.40     | 50,00  | 2.00   | 40.00     |
| Fuel                            | 1.74     | 109,00 | 2.00   | 379.32    |
| Lodging                         | 66.09    | 13.60  | 5.00   | 4,630,12  |
| Meals and Incidentals ~         | 36.55    | 13.60  | 5.00   | 2,621,40  |
| Project Consumables             | 192.72   | 13.60  | 1.00   | 2,620.99  |
| Printing and Binding            | 205.56   |        |        | _         |
| Shipping                        | 154.17   |        |        | -         |
| Site Trailer                    | 963,59   |        |        | _         |
| Electrical Hook Up              | 1,927.17 |        |        | _         |
| Magazine Fencing                | 899,35   |        |        | _         |
| Magazine Mobilization           | 770,87   |        |        | •         |
| Donor Explosives                | 1,541.74 |        |        |           |
| Site Remediation - Pine Farm    | 500.00   |        |        |           |
| Subtotal - Other Direct Costs   |          |        |        | 15,777.80 |
|                                 |          |        |        |           |
| Total Estimated Costs           |          |        |        | 51,181,00 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate

**Project Consumables** 

Printing and Binding

Electrical Hook Up

Magazine Fencing

Donor Explosives

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

**Total Estimated Costs** 

Shipping

Site Trailer

| Camp Croit, Spartenburg, 5.1       |         |          |             |        |         |           |           |
|------------------------------------|---------|----------|-------------|--------|---------|-----------|-----------|
| Engineering Design Cost Estima     |         |          |             |        | Task    |           |           |
| Pine Farm - Surface Clearance of O | Έ       |          |             |        |         |           |           |
|                                    |         |          |             |        | Removat |           |           |
|                                    |         | Loaded   | Hours       |        |         | <b>.</b>  |           |
| Labor Course                       |         | Heariy   | per<br>Week | Number |         | Estimated |           |
| Labor Category                     |         | Rate     | Week        | Weeks  | People  | Hours     | Amount    |
| Program Management I               |         | 82.06    |             |        |         | -         | -         |
| Project Manager III                |         | 76.92    |             |        |         | -         | -         |
| Project Manager II                 |         | 66.67    |             |        |         | -         | -         |
| Certified Industrial Hygienist     |         | 74.81    |             |        |         | -         | -         |
| Engineer II                        |         | 76.92    |             |        |         | -         | -         |
| Survey Manager                     |         | 56.42    |             |        |         | -         | •         |
| Surveyor V                         |         | 46.16    |             |        |         | -         |           |
|                                    | _       |          |             |        |         |           | <u></u>   |
| Quality Control Specialist         | Regular | 47,04    |             |        |         | •         | •         |
| Site Safety Officer                | Regular | 47.04    |             |        |         | -         | -         |
| UXO Supervisor/Tech VI             | Regular | 53.29    |             |        |         | •         | -         |
| UXO Supervisor/Tech V              | Regular | 47.04    | 40.00       | 2.00   | 2.00    | 160.00    | 7,526.40  |
| UXO Technician IV                  | Regular | 40.49    | 40.00       | 2.00   | 8.00    | 640.00    | 25,913.60 |
| UXO Techniçian III                 | Regular | 34.10    |             |        |         | •         | -         |
| Laborer II                         | Regular | 28.65    |             |        |         | -         | -         |
|                                    |         |          |             |        |         |           | -         |
| Subtotal - Lab                     | or      |          |             |        |         | 800.00    | 33,440.00 |
|                                    |         |          |             |        |         |           |           |
|                                    |         |          |             |        |         |           |           |
| Other Direct Costs                 |         | Loaded   |             |        | Number  |           |           |
|                                    | -       | Rate     |             | Weeks  | Units   |           | Amount    |
| FM Radio, Handheld w/ charger      |         | 25.69    |             | 2.00   | 2.00    |           | 102.76    |
| FM Radio Repeater/Base Station     |         | 44.97    |             |        |         |           | -         |
| Cellular Telephone and Service     |         | 64.24    |             |        |         |           | •         |
| Video Camera                       |         | 32.12    |             |        |         |           | -         |
| Computer                           |         | 96.36    |             |        |         |           | -         |
| Brushcutter, power                 |         | 96.36    |             |        |         |           | •         |
| Chainsaw                           |         | 64.24    |             |        |         |           | -         |
| EOD Demolition Kit                 |         | 51,39    |             | 2.00   | 1.00    |           | 102.78    |
| Foester Ferrex Ordnance Locator    |         | 385.43   |             |        |         |           | -         |
| Schonstedt Magnetic Locator        |         | 51.39    |             | 2.00   | 8.00    |           | 822.24    |
| Explosive Storage magazine         |         | 44.97    |             |        |         |           | -         |
| Carrier Phase GPS                  |         | 899.35   |             |        |         |           | -         |
| Surveyor's Kit                     |         | 64,24    |             |        |         |           | -         |
| Fotal Station Survey Equipment     |         | 835.11   |             |        |         |           | -         |
| Ford Explorer                      |         | 321.20   |             |        |         |           | -         |
| Pickup, 4x4, 3/4 Ton               |         | 449.67   |             |        |         |           | -         |
| Air Fare - Round Trip              |         | 1,220.54 |             |        |         |           | -         |
| Mileage<br>                        |         | 0.40     |             |        |         |           | -         |
| Fuel                               |         | 1.74     |             |        |         |           | -         |
| Lodging                            |         | 68.09    |             | 14.00  | 10.00   |           | 9,532.60  |
| Meals and Incidentals              |         | 38.55    |             | 14.00  | 10.00   |           | 5,397.00  |
| Jeniani Chaaumahlas                |         | 400 1    |             |        |         |           | :         |

192.72

205.56

154.17

963.59

899.35

770,87

500.00

1.00

0.50

1,541.74

1,927.17

770.87

16,728,25

50,168.25

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm - Surface Clearance of OE

Task 7 Scrap Turn-In

|                                 |         | Londed   | House |        |        |           |          |
|---------------------------------|---------|----------|-------|--------|--------|-----------|----------|
|                                 |         | Hourly   | per   | Number | Number | Estimated |          |
| Labor Category                  |         | Rate     | Week  | Week.  | People | Houre     | Amount   |
| Program Management I            |         | 82.06    |       |        |        | -         | •        |
| Project Manager III             |         | 76.92    |       |        |        | •         | -        |
| Project Manager II              |         | 66.67    |       |        |        | •         | -        |
| Certified Industrial Hygienist  |         | 74.81    |       |        |        | -         | -        |
| Engineer II                     |         | 76.92    |       |        |        | -         | -        |
| Survey Manager                  |         | 56.42    |       |        |        | -         | -        |
| Surveyor V                      |         | 46.16    |       |        |        | -         | -        |
|                                 |         |          |       |        |        |           |          |
| Quality Control Specialist      | Regular | 47.04    |       |        |        | •         | •        |
| Site Safety Officer             | Regular | 47.04    |       |        |        |           |          |
| UXO Supervisor/Tech VI          | Regular | 53.29    | 40.00 | 0.50   | 1.00   | 20.00     | 1,085.80 |
| UXO Supervisor/Tech V           | Regular | 47.04    |       |        |        | · ·       | -<br>-   |
| UXO Technician IV               | Regular | 40.49    | 40.00 | 0.50   | 1.00   | 20.00     | 809.80   |
| UXO Technician III              | Regular | 34.10    |       |        |        | -         | -        |
| Laborer II                      | Regular | 26.65    |       |        |        | •         | •        |
| Subtotal - Labo                 | r       |          |       |        |        | 40.00     | 1,875.60 |
| 000(018) - 1800                 | '       |          |       |        |        | 40.00     | 1,075.00 |
|                                 |         |          |       |        |        |           |          |
|                                 |         | Loaded   |       | Number | Number |           |          |
| Other Direct Costs              |         | Rate     |       | Weeks  | Units  |           | Amount   |
| FM Radio, Handheld w/ charger   |         | 25,69    |       |        |        |           |          |
| FM Radio Repeater/Base Station  |         | 44.97    |       |        |        |           |          |
| Cellular Telephone and Service  |         | 64.24    |       |        |        |           | _        |
| Video Camera                    |         | 32.12    |       |        |        |           | _        |
| Computer                        |         | 96.36    |       |        |        |           |          |
| Brushcutter, power              |         | 96.36    |       |        |        |           | _        |
| Chainsaw                        |         | 64.24    |       |        |        |           |          |
| EOD Demolition Kit              |         | 51,39    |       |        |        |           | _        |
| Foester Ferrex Ordnance Locator |         | 385.43   |       |        |        |           | _        |
| Schonstedt Magnetic Locator     |         | 51.39    |       |        |        |           | _        |
| Explosive Storage magazine      |         | 44.97    |       |        |        |           | -        |
| Carrier Phase GPS               |         | 899.35   |       |        |        |           | _        |
| Surveyor's Kit                  |         | 64.24    |       |        |        |           | _        |
| Total Station Survey Equipment  |         | 835,11   |       |        |        |           | -        |
| Ford Explorer                   |         | 321,20   |       |        |        |           | -        |
| Pickup, 4x4, 3/4 Ton            |         | 449.67   |       | 1.00   | 0.25   |           | 112.42   |
| Air Fare - Round Trip           |         | 1,220.54 |       |        |        |           | -        |
| Mileage                         |         | 0.40     |       |        |        |           | •        |
| Fuel                            |         | 1.74     |       | 80.00  | 1.00   |           | 139.20   |
| Lodging                         |         | 68.09    |       | 1.00   | 2.00   |           | 136.18   |
| Meals and incidentals           |         | 38.55    |       | 1.00   | 2.00   |           | 77.10    |
| Project Consumables             |         | 192.72   |       | 1.00   | 1.00   |           | 192.72   |
| Printing and Binding            |         | 205.56   |       |        |        |           | -        |
| Shipping                        |         | 154.17   |       |        |        |           | -        |
| Site Trailer                    |         | 963.59   |       |        |        |           | •        |
| Electrical Hook Up              |         | 1,927,17 |       |        |        |           | -        |
| Magazine Fencing                |         | 899.35   |       |        |        |           | -        |
| Magazine Mobilization           |         | 770.87   |       |        |        |           | -        |
| Donor Explosives                |         | 1,541.74 |       |        |        |           | -        |
| Site Remediation - Pine Farm    |         | 500.00   |       |        |        |           | -        |
| Subtotal - Other Direct Costs   |         |          |       |        |        |           | 657.62   |
| Total Estimated Costs           |         |          |       |        |        |           | 2 522 22 |
| . Can Estimated Costs           | ´       |          |       |        |        |           | 2,533.22 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Surface Clearance of OE

Task 6 Quality Control

| Pine Farm - Spriace Clearance of OE            | •         |                |       | Quality Control |          |           |           |  |
|--|-----------|----------------|-------|-----------------|----------|-----------|-----------|--|
|  |           | Loaded         | Hours |                 | <b>_</b> |           |           |  |
|  |           | Hearly         | per   | Number          | Number   | Estimated |           |  |
| Labor Category                                 | _         | Rate           | Week  | Weeks           | People   | Hours     | Ameunt    |  |
| Program Management I                           |           | 82.06          |       |                 |          | •         | -         |  |
| Project Manager III                            |           | 76.92          |       |                 |          | -         | -         |  |
| Project Manager II                             |           | 66.67          |       |                 |          | -         | -         |  |
| Certified Industrial Hygienist                 |           | 74.81          |       |                 |          | -         | -         |  |
| Engineer II                                    |           | 76.92          |       |                 |          | -         | -         |  |
| Survey Manager                                 |           | 56.42          |       |                 |          | -         | -         |  |
| Surveyor V                                     |           | 46.16          |       |                 |          | -         |           |  |
| Quality Control Specialist                     | Regular   | 47.04          | 40.00 | 2.00            | 1.00     | 80.00     | 3,763.20  |  |
| Site Safety Officer                            | Regular   | 47.04          | 40.00 | 2.00            | 1.00     | 00.00     | 0,700.22  |  |
| UXO Supervisor/Tech VI                         | Regular   | 53.29          |       |                 |          | _         | _         |  |
| UXO Supervisor/Tech V                          | Regular   | 47.04          |       |                 |          |           | _         |  |
| UXO Technician IV                              | Regular   | 40.49          |       |                 |          | _         | _         |  |
| UXO Technician III                             | Regular   | 34.10          | 40.00 | 2.00            | 1.00     | 80.00     | 2,728.00  |  |
| Laborer II                                     | Regular   | 28.65          | 40.00 | 2.00            | 1.40     | -         | 2,120.00  |  |
| LEGOTE II                                      | Ledicites | 20.00          |       |                 |          | -         |           |  |
| Subtotal - Labo                                | r         |                |       |                 |          | 160.00    | 6,491.20  |  |
|  | _         |                |       |                 |          | ·         |           |  |
|  |           |                |       |                 |          |           |           |  |
| Other Direct Conta                             |           | Loaded         |       | Number          | Number   |           |           |  |
| Other Direct Costs                             |           | Rate           |       | Weeks           | Units    |           | Amount    |  |
| FM Radio, Handheld w/ charger                  |           | 25.69          |       | 2.00            | 1.00     |           | 51.38     |  |
| FM Radio Repeater/Base Station                 |           | 44.97          |       |                 |          |           | -         |  |
| Cellular Telephone and Service<br>Video Camera |           | 64.24          |       |                 |          |           | •         |  |
|  |           | 32.12<br>96.36 |       |                 |          |           | -         |  |
| Computer                                       |           | 96,36          |       |                 |          |           | •         |  |
| Brushcutter, power<br>Chainsaw                 |           | 64.24          |       |                 |          |           | -         |  |
| EOD Demolition Kit                             |           | 51.39          |       |                 |          |           | -         |  |
| Foester Ferrex Ordnance Locator                |           | 385,43         |       |                 |          |           | _         |  |
| Schonstedt Magnetic Locator                    |           | 51.39          |       | 2.00            | 2.00     |           | 205,56    |  |
| Explosive Storage magazine                     |           | 44.97          |       | 2.00            | 2.00     |           | 203.30    |  |
| Carrier Phase GPS                              |           | 899.35         |       |                 |          |           | ]         |  |
| Surveyor's Kit                                 |           | 64.24          |       |                 |          |           | ]         |  |
| Total Station Survey Equipment                 |           | 835.11         |       |                 |          |           |           |  |
| Ford Explorer                                  |           | 321,20         |       | 2.00            | 1,00     |           | 842.40    |  |
| Pickup, 4x4, 3/4 Ton                           |           | 449.67         |       | 2.00            | *,       |           |           |  |
| Air Fare - Round Trip                          |           | 1,220.54       |       | 1.00            | 2.00     |           | 2,441.08  |  |
| Mileage  |           | 0.40           |       | 50.00           | 2.00     |           | 40.00     |  |
| Fuet   |           | 1.74           |       | 1.00            | 128.00   |           | 222.72    |  |
| Lodging  |           | 68,09          |       | 14.00           | 2.00     |           | 1,906.52  |  |
| Meals and Incidentals                          |           | 38.55          |       | 14.00           | 2.00     |           | 1,079.40  |  |
| Project Consumables                            |           | 192.72         |       | 2.00            | 1.00     |           | 385.44    |  |
| Printing and Binding                           |           | 205.56         |       |                 |          |           | -         |  |
| Shipping                                       |           | 154.17         |       |                 |          |           | -         |  |
| Site Trailer                                   |           | 963.59         |       |                 |          |           | -         |  |
| Electrical Hook Up                             |           | 1,927.17       |       |                 |          |           | _         |  |
| Magazine Fencing                               |           | 899.35         |       |                 |          |           | -         |  |
| Magazine Mobilization                          |           | 770. <b>87</b> |       |                 |          |           | -         |  |
| Donor Explosives                               |           | 1,541.74       |       |                 |          |           | -         |  |
| Site Remediation - Pine Farm                   |           | 500.00         |       |                 |          |           |           |  |
| Subtotal - Other Direct Costs                  |           |                |       |                 |          |           | 6,974.50  |  |
| <b></b>  |           |                |       |                 |          |           |           |  |
| Total Estimated Costs                          |           |                |       |                 |          |           | 13,465.70 |  |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Pine Farm - Surface Clearance of OE

Task 9 Final Report

|   |         |          |       |        | Final R | eport     |           |
|---|---------|----------|-------|--------|---------|-----------|-----------|
|   |         | Loaded   | Hours |        |         |           |           |
|   |         | Heurly   | Per   |        | Number  | Estimated |           |
| Labor Category                              |         | Rate     | Week  | Weeks  | People  | Hours     | Amount    |
| Program Management I                        |         | 82.06    | 42.00 | 0.25   | 1.00    | 10.50     | 861.63    |
| Project Manager III                         |         | 76.92    |       |        |         | •         |           |
| Project Manager II                          |         | 66.67    | 42.00 | 2.00   | 1.00    | 84.00     | 5,600.28  |
| Certified Industrial Hygienist              |         | 74.81    |       |        |         |           |           |
| Engineer It                                 |         | 76.92    | 42.00 | 1.00   | 1.00    | 42.00     | 3,230.64  |
| Survey Manager                              |         | 56.42    | 42.00 | 2.00   | 1.00    | 84.00     | 4,739.28  |
| Surveyor V                                  |         | 46.16    | _     |        |         | -         |           |
|   |         |          |       |        |         |           |           |
| Quality Control Specialist                  | Regular | 47.04    |       |        |         | •         | •         |
| Site Safety Officer                         | Regular | 47.04    |       |        |         | -         | -         |
| UXO Supervisor/Tech VI                      | Regular | 53.29    |       |        |         | •         | -         |
| UXO Supervisor/Tech V                       | Regular | 47.04    |       |        |         | -         | -         |
| UXO Technician IV                           | Regular | 40,49    |       |        |         | •         | •         |
| UXO Technician III                          | Regular | 34.10    |       |        |         | -         | -         |
| Laborer II                                  | Regular | 28.65    |       |        |         | -         | -         |
|   |         |          |       |        |         |           | 11 124 82 |
| Subtotal - Labo                             | Г       | !        |       |        |         | 220.50    | 14,431.83 |
|   |         |          |       |        |         |           |           |
|   |         | Loaded   |       | Number | Number  |           |           |
| Other Direct Costs                          |         | Rate     |       | Weeks  | Units   |           | Amount    |
|   | _       | 25,69    |       | 770083 | Ollita  |           | 741100110 |
| FM Radio, Handheld w/ charger               |         | 44.97    |       |        |         |           |           |
| FM Radio Repeater/Base Station              |         | 64.24    |       |        |         |           | _         |
| Cellular Telephone and Service Video Camera |         | 32.12    |       |        |         |           | _         |
|   |         | 96,36    |       |        | i       |           | _         |
| Computer Brushcutter, power                 |         | 96.36    |       |        |         |           | _         |
| Chainsaw                                    |         | 64,24    |       |        |         |           | _         |
| EOD Demolition Kit                          |         | 51.39    |       |        |         |           | _         |
| Foester Ferrex Ordnance Locator             |         | 385.43   |       |        |         |           | _         |
| Schonstedt Magnetic Locator                 |         | 51.39    |       |        |         |           | _         |
| Explosive Storage magazine                  |         | 44.97    |       |        |         |           | _         |
| Carrier Phase GPS                           |         | 899.35   |       |        |         |           |           |
| Surveyor's Kit                              |         | 64.24    |       |        |         |           | _         |
| Total Station Survey Equipment              |         | 835.11   |       |        |         |           | _         |
| Ford Explorer                               |         | 321,20   |       |        |         |           | _         |
| Pickup, 4x4, 3/4 Ton                        |         | 449.67   |       |        |         |           | _         |
| Air Fare - Round Trip                       |         | 1,220.54 |       |        |         |           | -         |
| Mileage                                     |         | 0.40     |       |        |         |           | <u>-</u>  |
| Fuel  |         | 1.74     |       |        |         |           | _         |
| Lodging                                     |         | 68.09    |       |        |         |           | -         |
| Meals and Incidentals                       |         | 38.55    |       |        |         |           | -         |
| Project Consumables                         |         | 192.72   |       |        |         |           | -         |
| Printing and Binding                        |         | 205.56   |       | 1.00   | 2.00    |           | 411.12    |
| Shipping                                    |         | 154,17   |       |        |         |           | •         |
| Site Trailer                                |         | 963,59   |       |        |         |           | -         |
| Electrical Hook Up                          |         | 1,927.17 |       |        |         |           | -         |
| Magazine Fencing                            |         | 899.35   |       |        |         |           | -         |
| Magazine Mobilization                       |         | 770.87   |       |        |         |           | -         |
| Donor Explosives                            |         | 1,541.74 |       |        |         |           | -         |
| Site Remediation - Pine Farm                |         | 500.00   |       |        |         |           | -         |
| Subtotal - Other Direct Cost                | 5       |          |       |        |         |           | 411.12    |
|   |         |          |       |        |         |           |           |
| Total Estimated Cost                        | S       |          |       |        |         |           | 14,842.95 |

| Pine Farm - Surface Clearance of | fOE .   |                          |                      |                 | Teek             | 10                 |        |
|----------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|
|                                  |         |                          |                      |                 | Site Rest        | eration            |        |
| Labor Category                   |         | Leaded<br>Heurly<br>Rate | Houro<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt |
| Program Management I             |         | 82.06                    |                      |                 |                  |                    | _      |
| Project Manager III              |         | 76.92                    |                      |                 |                  | -                  | -      |
| Project Manager II               |         | 66.67                    |                      |                 |                  | -                  |        |
| Certified Industrial Hygienist   |         | 74.81                    |                      |                 |                  | -                  | •      |
| Engineer II                      |         | 76.92                    |                      |                 |                  | -                  |        |
| Survey Manager                   |         | 56.42                    |                      |                 |                  | -                  | -      |
| Surveyor V                       |         | 46.16                    |                      |                 |                  | -                  | -      |
|                                  |         |                          |                      |                 |                  |                    |        |
| Quality Control Specialist       | Regular | 47.04                    |                      |                 |                  |                    | -      |
| Site Safety Officer              | Regular | 47.04                    |                      |                 |                  | -                  | -      |
| UXO Supervisor/Tech VI           | Regular | 53.29                    |                      |                 |                  | -                  | •      |
| UXO Supervisor/Tech V            | Regular | 47.04                    |                      |                 |                  | -                  | •      |
| UXO Technician IV                | Regular | 40.49                    |                      |                 |                  |                    | -      |
| UXO Technician III               | Regular | 34.10                    |                      |                 |                  | -                  | -      |
| Laborer II                       | Regular | 28.65                    |                      |                 |                  | -                  | -      |
|                                  |         |                          |                      |                 |                  | •                  | -      |
| Subtotal - L                     | abor    |                          |                      |                 |                  | -                  | -      |
|                                  |         |                          |                      |                 |                  |                    |        |
|                                  |         | Loaded                   |                      | Number          | Number           |                    |        |
| Other Direct Costs               |         | Rate                     |                      | Weeks           | Units            |                    | Amount |
| FM Radio, Handheld w/ charger    |         | 25.69                    |                      |                 |                  |                    | -      |
| FM Radio Repeater/Base Station   | ,       | 44 97                    |                      |                 |                  |                    |        |

|                                 | Loaded   | Number Number |        |
|---------------------------------|----------|---------------|--------|
| Other Direct Costs              | Rate     | Weeks Units   | Amount |
| FM Radio, Handheld w/ charger   | 25.69    | _             | -      |
| FM Radio Repeater/Base Station  | 44.97    |               |        |
| Cellular Telephone and Service  | 64.24    |               | -      |
| Video Camera                    | 32.12    |               |        |
| Computer                        | 96.36    | •             |        |
| Brushcutter, power              | 96.36    |               | -      |
| Chainsaw                        | 64.24    |               |        |
| EOD Demolition Kit              | 51.39    |               | -      |
| Foester Ferrex Ordnance Locator | 385.43   |               | -      |
| Schonstedt Magnetic Locator     | 51.39    |               | -      |
| Explosive Storage magazine      | 44.97    |               | -      |
| Carrier Phase GPS               | 899.35   |               | -      |
| Surveyor's Kit                  | 64.24    |               |        |
| otal Station Survey Equipment   | 835.11   |               | -      |
| Ford Explorer                   | 321.20   |               | -      |
| Pickup, 4x4, 3/4 Ton            | 449.67   |               | -      |
| Air Fare - Round Trip           | 1,220.54 |               | -      |
| Aileage                         | 0.40     |               |        |
| Fuel                            | 1.74     |               | -      |
| .odging                         | 68.09    |               | -      |
| deals and incidentals           | 38.55    |               | -      |
| Project Consumables             | 192.72   |               | -      |
| Printing and Binding            | 205.56   |               | -      |
| Shipping                        | 154.17   |               | -      |
| Site Trailer                    | 963.59   |               | -      |
| Electrical Hook Up              | 1,927.17 |               | -      |
| Magazine Fencing                | 899.35   |               | •      |
| Asgazine Mobilization           | 770.87   |               | -      |
| Donor Explosives                | 1,541.74 |               | -      |
| Site Remediation - Pine Farm    | 500.00   | 1.00 1.00     | 500.0  |
| Subtotal - Other Direct Costs   |          |               | 500.0  |
| Total Estimated Costs           |          |               | 500.0  |
| LOTAL ESTIMISATED COSTS         |          |               | 300.0  |

#### Pine Farm

# Alternative 7 - Surface and Subsurface Clearance of OE Over Entire Area to a Depth of One Foot

Alternative 7 provides for a complete OE surface and subsurface clearance of the entire area (38.94 acres) to a depth of one foot. Because the surface clearance will be performed concurrently with the subsurface clearance, the cost for the surface clearance is included in the subsurface costs. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are extensive and based solely on the production achieved during the Engineering Design effort. It is assumed that 80% of the total grids will require brush clearance. During the Engineering Design effort, a number of production rates have been proportionally increased to account for this effort. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation present in grids, the survey production rate was held to 14 grids per day. The work is to be performed on privately owned property. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage to Surface Clear:

38.94 acres/170 (100' X 100') search grids

Total Acreage Previously Geophysically Investigated:

2.47

Adjusted acreage:

36.47 acres

Adjusted number of grids

136

Grids Requiring Brush Clearance

108

Search Grid Size: 100' X 100'

0.22 acres per grid

Number of Grids requiring brush clearance:

108.8

#### Production Rates:

Brush Clearance

4 grids per day per four man team (8 grids per day)

Land Survey

14 grids per day per two person team (1 team)

Surface Clearance

7.62 grids per workday (1.75 acres) per 5 person team (2 teams @

15.24 (3.5 acres) per workday.

#### Duration:

Project Management

27 working days/6.75 weeks

Brush Clearance

14 working days/3.5 weeks (2 teams)

Land Survey

13 working days/3.25 weeks (one team)

Surface Clearance

8.93 (9) working days/2.25 weeks (two teams)

Disposal

Effort included in Surface Clearance

Quality Control

9 working days/2.25 weeks (2-person team)

Total Project Duration

27 working days/6.75 weeks

## Surface Clearance of OE - Alternative 7

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pine Farm

Magazine Fencing

Donor Explosives

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

Total Estimated Costs

| Engineering Design Cost Estimate Pine Farm |         |                  |             |        |        |                  |                  |
|--|---------|------------------|-------------|--------|--------|------------------|------------------|
| 1 1170 1 0011                              | •       |                  |             |        | Sum=   | IAP <del>y</del> |                  |
|  |         | Loaded<br>Hourly | Heum        | Number | Number | Estimated        |                  |
| Labor Category                             |         | Rate             | per<br>Week | Weeks  | People | Hours            | Amount           |
| Program Management I                       |         | 82.06            |             |        |        | 39.90            | 3,274.19         |
| Project Manager III                        |         | 76.92            |             |        |        | 283.50           | 21,806.82        |
| Project Manager II                         |         | 86.67            |             |        |        | 243.60           | 16,240.81        |
| Certified Industrial Hygienist             |         | 74,81            |             |        |        | 18.00            | 1,196.96         |
| Engineer II                                |         | 76.92            |             |        |        | 63.00            | 4,845.96         |
| Survey Manager                             |         | 56,42            |             |        |        | 159.60           | 9,004.63         |
| Surveyor V                                 |         | 46.16            |             |        |        | 138.50           | 6,300.84         |
|  |         |                  |             |        |        |                  |                  |
| Quality Control Specialist                 | Regular | 47,04            |             |        |        | 90.00            | 4,233.60         |
| Site Safety Officer                        | Regular | 47.04            |             |        |        | 270.00           | 12,700.80        |
| UXO Supervisor/Tech VI                     | Regular | 53.29            |             |        |        | 362.00           | 19,290.98        |
| UXO Supervisor/Tech V                      | Regular | 47.04            |             |        |        | 180.00           | 8,467.20         |
| UXO Technician IV                          | Regular | 40.49            |             |        |        | 1,020.00         | 41,299.80        |
| UXO Technician III                         | Regular | 34.10            |             |        |        | 220.00           | 7,502.00         |
| Laborer II                                 | Regular | 28.65            |             |        |        | 840.00           | 24,066.00        |
|  |         |                  |             |        |        | <u>-</u>         |                  |
| Subtotal - Labo                            | r       |                  |             |        |        | 3,924.10         | 180,230.59       |
|  |         |                  |             |        |        |                  |                  |
|  |         |                  |             |        |        |                  |                  |
|  |         | Loaded           |             | Number | Number |                  | A                |
| Other Direct Costs                         |         | Rate             |             | Weeks  | Units  |                  | Amount           |
| FM Radio, Handheld w/ charger              |         | 25.69            |             |        |        |                  | 520.23           |
| FM Radio Repeater/Base Station             |         | 44.97            |             |        |        |                  | 1,214.19         |
| Cellular Telephone and Service             |         | 64.24            |             |        |        |                  | 485.01           |
| Video Camera                               |         | 32.12            |             |        |        |                  | 242.51           |
| Computer                                   |         | 96,36            |             |        |        |                  | 1,059.96         |
| Brushcutter, power                         |         | 96.36            |             |        |        |                  | 1,349.04         |
| Chainsaw                                   |         | 64.24            |             |        |        |                  | 449.68           |
| EOD Demolition Kit                         |         | 51.39            |             |        |        |                  | 115.63           |
| Foester Ferrex Ordnance Locator            |         | 385,43           |             |        |        |                  | 308.34           |
| Schonstedt Magnetic Locator                |         | 51.39            |             |        |        |                  | 1,683.03         |
| Explosive Storage magazine                 |         | 44.97            |             |        |        |                  | 910.64<br>699.35 |
| Carrier Phase GPS                          |         | 699.35           |             |        |        |                  | 208.78           |
| Surveyor's Kit                             |         | 84.24            |             |        |        |                  | 835.11           |
| Total Station Survey Equipment             |         | 835.11           |             |        |        |                  | 9,106,02         |
| Ford Explorer                              |         | 321.20           |             |        |        |                  | 3,260.11         |
| Pickup, 4x4, 3/4 Ton                       |         | 449.67           |             |        |        |                  | 12,205.40        |
| Air Fare - Round Trip                      |         | 1,220.54<br>0.40 |             |        |        |                  | 980.00           |
| Mileage                                    |         | 1.74             |             |        |        |                  | 5,600.19         |
| Fuel                                       |         | 68.09            |             |        |        |                  | 35,287.65        |
| Lodging                                    |         | 38.55            |             |        |        |                  | 20,354.41        |
| Meals and Incidentals                      |         |                  |             |        |        |                  | 5,444.34         |
| Project Consumables                        |         | 192.72<br>205.56 |             |        |        |                  | 1,438.92         |
| Printing and Binding                       |         |                  |             |        |        |                  | 616.68           |
| Shipping                                   |         | 154.17           |             |        |        |                  | 1,927,18         |
| Site Trailer                               |         | 963,59           |             |        |        |                  |                  |
| Electrical Hook Up                         |         | 1,927,17         |             |        |        |                  | 1,927.17         |

899.35

770.87

500.00

1,541.74

899.35 770.87

1,734.46

112,334.25

292,564.84

500.00

Task 1 Site Visit

|   |                    |          |       |        | Site \ | <b>Visi</b> t |          |
|---|--------------------|----------|-------|--------|--------|---------------|----------|
|   |                    | Loaded   | Hours |        |        | _             |          |
|   |                    | Heurly   | per   |        | Number | Estimated     |          |
| Labor Category                          |                    | Rate     | Week  | Weeks  | People | Hours         | Amount   |
| Program Management I                    |                    | 82.06    | 42.00 | 0.20   | 1.00   | 8,40          | 689.30   |
| Project Manager III                     |                    | 76.92    |       |        |        | -             | -        |
| Project Manager II                      |                    | 66.67    | 42.00 | 0.80   | 1.00   | 33.60         | 2,240.11 |
| Certified Industrial Hygienist          |                    | 74.81    |       |        |        | -             | -        |
| Engineer II                             |                    | 76.92    |       |        |        | -             | •        |
| Survey Manager                          |                    | 56,42    |       |        |        | •             | -        |
| Surveyor V                              |                    | 46.16    |       |        |        |               | •        |
| Overlity Overteel Canadallat            | Dogular            | 47.04    |       |        |        | _             | •        |
| Quality Control Specialist              | Regular            | 47.04    |       |        |        | _             |          |
| Site Safety Officer                     | Regular            | 53.29    | 40.00 | 0.80   | 1.00   | 32.00         | 1,705.28 |
| UXO Supervisor/Tech VI                  | Regular            | 47.04    | 40.00 | 0.00   | 1.00   | 32.00         | 1,100:40 |
| UXO Supervisor/Tech V                   | Regular            | 40.49    |       |        |        | _             | _        |
| UXO Technician IV<br>UXO Technician III | Regular<br>Regular | 34.10    |       |        |        | -             |          |
| Laborer II                              | -                  | 28.65    |       |        |        |               | -        |
| Laborer II                              | Regular            | 20.00    |       |        |        | _             | -        |
| Subtotal - Labor                        |                    |          |       |        |        | 74.00         | 4,634,69 |
| Sopiolai - Eacoi                        |                    |          |       |        |        |               | .,       |
|   |                    |          |       |        |        |               |          |
|   |                    | Loaded   |       | Number | Number |               |          |
| Other Direct Costs                      |                    | Rate     |       | Weeks  | Units  |               | Amount   |
| FM Radio, Handheld w/ charger           |                    | 25,69    |       | 1      |        |               | -        |
| FM Radio Repeater/Base Station          |                    | 44.97    |       |        |        |               |          |
| Cellular Telephone and Service          |                    | 64.24    |       | 0.80   | 1.00   |               | 51.39    |
| Video Camera                            |                    | 32.12    |       | 0.80   | 1.00   |               | 25.70    |
| Computer                                |                    | 96.36    |       |        |        |               | -        |
| Brushcutter, power                      |                    | 96.36    |       |        |        |               |          |
| Chainsaw                                |                    | 64.24    |       |        |        |               | -        |
| EOD Demolition Kit                      |                    | 51.39    |       |        |        |               |          |
| Foester Ferrex Ordnance Locator         |                    | 385.43   |       | 0.80   | 1,00   |               | 308.34   |
| Schonstedt Magnetic Locator             |                    | 51.39    |       |        |        |               | -        |
| Explosive Storage magazine              |                    | 44.97    |       |        |        |               | -        |
| Carrier Phase GPS                       |                    | 899.35   |       |        |        |               | -        |
| Surveyor's Kit                          |                    | 64.24    |       |        |        |               | -        |
| Total Station Survey Equipment          |                    | 835.11   |       |        |        |               | -        |
| Ford Explorer                           |                    | 321.20   |       | 2.00   | 0.80   |               | 513.92   |
| Pickup, 4x4, 3/4 Ton                    |                    | 449.67   |       |        |        |               | •        |
| Air Fare - Round Trip                   |                    | 1,220.54 |       | 1.00   | 2.00   |               | 2,441.08 |
| Mileage                                 | 3                  | 0.40     |       | 50.00  | 2.00   |               | 40.00    |
| Fuel                                    |                    | 1.74     |       | 5.00   | 8.00   |               | 69.60    |
| Lodging                                 |                    | 68.09    |       | 4.00   | 2.00   |               | 544.72   |
| Meals and Incidentals                   |                    | 38.55    |       | 5,00   | 2.00   |               | 385.50   |
| Project Consumables                     |                    | 192.72   |       | 1.00   | 1.00   |               | 192.72   |
| Printing and Binding                    |                    | 205.56   |       |        |        |               |          |
| Shipping                                |                    | 154.17   |       |        |        |               | -        |
| Site Trailer                            |                    | 963.59   |       |        |        |               | -        |
| Electrical Hook Up                      |                    | 1,927.17 |       |        |        |               | -        |
| Magazine Fencing                        |                    | 899.35   |       |        |        |               | · ·      |
| Magazine Mobilization                   |                    | 770.87   |       |        |        |               |          |
| Donor Explosives                        |                    | 1,541.74 |       |        |        |               | · ·      |
| Site Remediation - Pine Farm            |                    | 500.00   |       |        |        |               | 4,572.97 |
| Subtotal - Other Direct Costs           |                    |          |       |        |        |               | 4,012.81 |
| Total Estimated Costs                   | ,                  |          |       |        |        |               | 9,207.66 |
| i diai Estimated Costi                  |                    |          |       |        |        |               | σ,Z01.00 |

Fash 2 Wach Plan

| •                                |         |                  |       |       |        |                |           |
|----------------------------------|---------|------------------|-------|-------|--------|----------------|-----------|
|                                  |         | Landed           | Hours |       |        |                |           |
|                                  |         | Hearly           | per   |       | Number | Estimated      |           |
| Labor Category                   |         | Rate             | Week  | Weeks | People | Hours<br>04.00 | Amount    |
| Program Management I             |         | 82.06            | 42.00 | 0.50  | 1.00   | 21.00          | 1,723.26  |
| Project Manager III              |         | 76.92            |       |       |        |                | 7 000 05  |
| Project Manager II               |         | 66.67            | 42.00 | 2.50  | 1.00   | 105.00         | 7,000.35  |
| Certified Industrial Hygienist   |         | 74.81            | 40.00 | 0.40  | 1.00   | 16,00          | 1,196.96  |
| Engineer II                      |         | 76.92            | 42.00 | 0.50  | 1.00   | 21.00          | 1,615.32  |
| Survey Manager                   |         | 56.42            | 42.00 | 08.0  | 1.00   | 33.60          | 1,895.71  |
| Surveyor V                       |         | 46.16            |       |       |        | -              | -         |
| Quality Control Specialist       | Regular | 47.04            |       |       |        |                |           |
|                                  | Regular | 47.04            |       |       |        |                | _         |
| Site Safety Officer              | Regular | 53.29            | 40.00 | 1.00  | 1,00   | 40.00          | 2,131.60  |
| UXO Supervisor/Tech VI           | _       | 47.04            | 40.00 | 1.00  | 1,00   | 40.00          | -         |
| UXO Supervisor/Tech V            | Regular | 40.49            |       |       |        | _              | _         |
| UXO Technician IV                | Regular | 34.10            |       |       |        | _              | _         |
| UXO Technician III               | Regular | 28.65            |       |       |        | -              | _         |
| Laborer II                       | Regular | 20.03            |       |       |        | -              | _         |
| Subtotal - Labo                  | 7       |                  |       |       |        | 236.60         | 15,563.20 |
|                                  |         |                  |       |       |        |                |           |
|                                  |         |                  |       |       |        |                |           |
|                                  |         | Loaded           |       |       | Number |                | Amount    |
| Other Direct Costs               |         | Rate             | _     | Weeks | Units  |                | Amodiic   |
| FM Radio, Handheld w/ charger    |         | 25.69            |       |       |        |                | · -       |
| FM Radio Repeater/Base Station   |         | 44.97            |       |       |        |                | -         |
| Cellular Telephone and Service   |         | 84.24            |       |       |        |                | _         |
| Video Camera                     |         | 32.12            |       |       | 4 00   |                | 96.36     |
| Computer                         |         | 96.36            |       | 1.00  | 1.00   |                | 80.30     |
| Brushcutter, power               |         | 96.36            |       |       |        |                | •         |
| Chainsaw                         |         | 64.24            |       |       |        |                | i •       |
| EOD Demolition Kit               |         | 51.39            |       |       | 1      |                |           |
| Foester Ferrex Ordnance Locator  |         | 385.43           |       |       |        |                |           |
| Schonstedt Magnetic Locator      |         | 51.39            |       |       |        |                | _         |
| Explosive Storage magazine       |         | 44.97            |       |       |        |                | _         |
| Carrier Phase GPS                |         | 899.35<br>64.24  |       |       |        |                | _         |
| Surveyor's Kit                   |         |                  |       |       |        |                | _         |
| Total Station Survey Equipment   |         | 835.11<br>321.20 |       | 1.00  | 1.00   |                | 321.20    |
| Ford Explorer                    |         | 449.67           |       | 1.00  | 1.00   |                | 521.20    |
| Pickup, 4x4, 3/4 Ton             |         | 1,220.54         |       | 1.00  | 1.00   |                | 1,220.54  |
| Air Fare - Round Trip<br>Mileage |         | 0.40             |       | 50.00 | 1.00   |                | 20.00     |
| Fuel                             |         | 1.74             |       | 1.00  | 40.00  |                | 69.60     |
| Lodging                          |         | 68.09            |       | 8.00  | 1.00   |                | 408.54    |
| Meals and Incidentals            |         | 38.55            |       | 7.00  | 1.00   |                | 269.85    |
| Project Consumables              |         | 192.72           |       | 8.00  | 1.00   |                | 1,541.76  |
| Printing and Binding             |         | 205.58           |       | 1.00  | 2.00   |                | 411.12    |
| Shipping                         |         | 154.17           |       | I     |        |                | -         |
| Site Trailer                     |         | 963.59           |       |       |        |                | -         |
| Electrical Hook Up               |         | 1,927.17         |       |       |        |                |           |
| Magazine Fencing                 |         | 899.35           |       |       |        |                | -         |
| Magazine Mobilization            |         | 770.87           |       |       |        |                | _         |
| Donor Explosives                 |         | 1,541.74         |       |       |        |                |           |
| Site Remediation - Pine Farm     |         | 500.00           |       |       |        |                | <b>-</b>  |
| Subtotal - Other Direct Cost     | 8       |                  |       |       |        |                | 4,358.97  |
|                                  |         |                  |       |       |        |                |           |
| Total Estimated Cost             | s T     |                  |       |       |        |                | 19,922.17 |

Task 3 Site Management

|   |         |                  |              |          | •      | ute Manifema | ,00000    |  |  |
|---|---------|------------------|--------------|----------|--------|--------------|-----------|--|--|
|   |         | Loaded<br>Hourly | Hours<br>per | Number   | Number | Estimated    |           |  |  |
| Labor Category  |         | Rate             | Week         | Weeks    | People | Hours        | Amount    |  |  |
| Program Management I  |         | 82.06            |              |          |        | -            | •         |  |  |
| Project Manager III   |         | 76,92            | 42.00        | 6.75     | 1.00   | 283.50       | 21,806.82 |  |  |
| Project Manager II  |         | 66.67            |              |          |        | -            | -         |  |  |
| Certified Industrial Hygienist                                |         | 74.81            |              |          |        | •            | -         |  |  |
| Engineer II   |         | 76.92            |              |          |        | -            | -         |  |  |
| Survey Manager  |         | 56.42            |              |          |        | -            | -         |  |  |
| Surveyor V  |         | 46.16            |              |          |        |              | -         |  |  |
|   |         |                  |              |          |        |              |           |  |  |
| Quality Control Specialist                                    | Regular | 47.04            |              |          |        | -            | -         |  |  |
| Site Safety Officer   | Regular | 47.04            | 40,00        | 6.75     | 1.00   | 270.00       | 12,700.80 |  |  |
| UXO Supervisor/Tech VI  | Regular | 53.29            | 40.00        | 6.75     | 1.00   | 270.00       | 14,388.30 |  |  |
| UXO Supervisor/Tech V   | Regular | 47.04            |              |          |        | -            | -         |  |  |
| UXO Technician IV   | Regular | 40.49            |              |          |        | -            | -         |  |  |
| UXO Technician III  | Regular | 34.10            |              |          |        | -            | -         |  |  |
| Laborer II  | Regular | 28.65            |              |          |        | -            | •         |  |  |
|   |         |                  |              |          |        |              | -         |  |  |
| Subtotal - Lab  | pr      |                  |              |          |        | 823,50       | 48,895.92 |  |  |
|   |         |                  |              |          |        |              |           |  |  |
| <u> </u>  |         | Loaded           |              | Number   | Number |              |           |  |  |
| Other Direct Costs  |         | Rate             |              | Weeks    | Units  |              | Amount    |  |  |
| FM Radio, Handheld w/ charger                                 |         | 25.69            |              | - 1100   |        |              |           |  |  |
|   |         | 44.97            |              | 6.75     | 4.00   |              | 1,214.19  |  |  |
| FM Radio Repeater/Base Station Cellular Telephone and Service |         | 64.24            |              | 6.75     | 1.00   |              | 433.62    |  |  |
| Video Camera  |         | 32.12            |              | 8.75     | 1.00   |              | 216.81    |  |  |
| Computer  |         | 96.36            |              | 6.75     | 1.00   |              | 650.43    |  |  |
| Brushcutter, power  |         | 96.36            |              | 0.10     | ,      |              | •         |  |  |
| Chainsaw  |         | 64,24            |              |          |        |              | _         |  |  |
| EOD Demolition Kit  |         | 51.39            |              |          |        |              | _         |  |  |
| Foester Ferrex Ordnance Locator                               |         | 385.43           |              |          |        |              | -         |  |  |
| Schonstedt Magnetic Locator                                   |         | 51.39            |              |          |        |              | _         |  |  |
| Explosive Storage magazine                                    |         | 44.97            |              | 6.75     | 3.00   |              | 910.64    |  |  |
| Carrier Phase GPS   |         | 899,35           |              | 00       |        |              | -         |  |  |
| Surveyor's Kit  |         | 64.24            |              |          |        |              | -         |  |  |
| Total Station Survey Equipment                                |         | 835,11           |              |          |        |              | -         |  |  |
| Ford Explorer   |         | 321.20           |              | 6.75     | 3.00   |              | 6,504.30  |  |  |
| Pickup, 4x4, 3/4 Ton  |         | 449.67           |              |          |        |              | _         |  |  |
| Air Fare - Round Trip   |         | 1,220,54         |              | 1.00     | 3.00   |              | 3,661.62  |  |  |
| Mileage   |         | 0.40             |              | 2,000.00 | 1.00   |              | 800.00    |  |  |
| Fuel  |         | 1.74             |              | 857.00   | 3.00   |              | 4,473.54  |  |  |
| Lodging   |         | 68.09            |              | 21.00    | 6.75   |              | 9,651.76  |  |  |
| Meals and Incidentals   |         | 38.55            |              | 22.00    | 6.75   |              | 5,724.68  |  |  |
| Project Consumables   |         | 192.72           |              | 1.00     | 6.75   |              | 1,300.86  |  |  |
| Printing and Binding  |         | 205.56           |              | 2.00     | 1.00   |              | 411.12    |  |  |
| Shipping  |         | 154.17           |              | 1.00     | 3,00   |              | 462.51    |  |  |
| Site Trailer  |         | 963,59           |              | 2.00     | 1.00   |              | 1,927.18  |  |  |
| Electrical Hook Up  |         | 1,927.17         |              | 1.00     | 1.00   |              | 1,927.17  |  |  |
| Magazine Fencing  |         | 899.35           |              | 1.00     | 1.00   |              | 899.35    |  |  |
| Magazine Mobilization   |         | 770.87           |              | 1.00     | 1.00   |              | 770.87    |  |  |
| Donor Explosives  |         | 1,541.74         |              |          |        |              | -         |  |  |
| Site Remediation - Pine Farm                                  |         | 500.00           |              |          |        |              |           |  |  |
| Subtotal - Other Direct Co.                                   | ets ets |                  |              |          |        |              | 41,940.65 |  |  |
|   |         |                  |              |          |        |              |           |  |  |
| Total Estimated Cos   | sts     |                  |              |          |        |              | 90,836.57 |  |  |
| 2000 S 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                |         |                  |              |          |        |              |           |  |  |

Task 4 Land Surve

| Pine Farm                       |           |                    |       |        | 1 10   |            |           |  |
|---------------------------------|-----------|--------------------|-------|--------|--------|------------|-----------|--|
|                                 |           | Lauded             | House |        |        | Land Surve | 7         |  |
|                                 |           | Hourly             | per   | Number | Number | Estimated  |           |  |
| Labor Category                  |           | Rate               | Week  | Weeks  | People | Hours      | Amount    |  |
| Program Management I            |           | 82.06              |       |        | -      | -          |           |  |
| Project Manager III             |           | 76.92              |       |        |        | •          | -         |  |
| Project Manager II              |           | 66.67              |       |        |        | -          | -         |  |
| Certified Industrial Hygienist  |           | 74.81              |       |        |        | •          | -         |  |
| Engineer II                     |           | 76.92              |       |        |        | -          | -         |  |
| Survey Manager                  |           | 56.42              | 42.00 | 1.00   | 1.00   | 42.00      | 2,369.64  |  |
| Surveyor V                      |           | 46.16              | 42.00 | 3.25   | 1,00   | 136.50     | 6,300.84  |  |
|                                 | Describes |                    |       |        |        |            |           |  |
| Quality Control Specialist      | Regular   | 47.04              |       |        |        |            | -         |  |
| Site Safety Officer             | Regular   | 47.04              |       |        |        | _          | _         |  |
| UXO Supervisor/Tech VI          | Regular   | 53.29              |       |        |        | -          | _         |  |
| UXO Supervisor/Tech V           | Regular   | 47.04              |       |        |        | •          | _         |  |
| UXO Technician IV               | Regular   | 40.49              | 40.00 | A AF   | 4.00   | 420.00     | 4,433.00  |  |
| UXO Technician III              | Regular   | 34.10              | 40.00 | 3.25   | 1.00   | 130.00     | 4,433.00  |  |
| Laborer II                      | Regular   | 28.65              |       |        |        | -          | -         |  |
| Subtotal - Labor                |           |                    |       |        |        | 308.50     | 13,103.48 |  |
|                                 |           |                    |       |        |        |            |           |  |
|                                 |           | Loaded             |       | Number | Number |            |           |  |
| Other Direct Costs              |           | Rate               |       | Weeks  | Units  |            | Amount    |  |
| FM Radio, Handheld w/ charger   |           | 25.69              |       | 3.25   | 2.00   |            | 166.9     |  |
| FM Radio Repeater/Base Station  |           | 44.97              |       |        |        |            | -         |  |
| Cellular Telephone and Service  |           | 64.24              |       |        |        |            | -         |  |
| Video Camera                    |           | 32.12              |       |        |        |            | -         |  |
| Computer                        |           | 9 <del>6</del> .36 |       | 3.25   | 1.00   |            | 313.1     |  |
| Brushcutter, power              |           | 96.36              |       |        |        |            | •         |  |
| Chainsaw                        |           | 64.24              |       |        |        |            | -         |  |
| EOD Demolition Kit              |           | 51.39              |       |        |        |            | -         |  |
| Foester Ferrex Ordnance Locator |           | 385.43             |       |        |        |            | -         |  |
| Schonstedt Magnetic Locator     |           | 51.39              |       | 3.25   | 1.00   |            | 167.0     |  |
| Explosive Storage magazine      |           | 44.97              |       |        |        |            | -         |  |
| Carrier Phase GPS               |           | 899.35             |       | 0.50   | 2.00   |            | 699.3     |  |
| Surveyor's Kit                  |           | 64.24              |       | 3.25   | 1.00   |            | 208.7     |  |
| Total Station Survey Equipment  |           | 835.11             |       | 1.00   | 1.00   |            | 835.1     |  |
| Ford Explorer                   |           | 321.20             |       | 3,25   | 1.00   |            | 1,043.9   |  |
| Pickup, 4x4, 3/4 Ton            |           | 449,67             |       |        |        |            | -         |  |
| Air Fare - Round Trip           |           | 1,220.54           |       | 1.00   | 2.00   |            | 2,441.0   |  |
| Mileage                         |           | 0.40               |       | 50.00  | 2.00   |            | 40.0      |  |
| Fuel                            |           | 1.74               |       | 3.25   | 32.00  |            | 180.9     |  |
| Lodging                         |           | 68.09              |       | 23.00  |        |            | 3,132.1   |  |
| Meals and Incidentals           |           | 38.55              |       | 23.00  |        |            | 1,773.3   |  |
| Project Consumables             |           | 192.72             |       | 3.25   |        |            | 626.3     |  |
| Printing and Binding            |           | 205.56             |       | 1.00   |        |            | 205.5     |  |
| Shipping                        |           | 154.17             |       | 1.00   | 1.00   |            | 154.1     |  |
| Site Trailer                    |           | 963.59             |       |        |        |            |           |  |
| Electrical Hook Up              |           | 1,927.17           |       |        |        |            | -         |  |
| Magazine Fencing                |           | 899.35             |       |        |        |            | •         |  |
| Magazine Mobilization           |           | 770.87             |       |        |        |            | -         |  |
| Donor Explosives                |           | 1,541.74           |       |        |        |            | -         |  |
| Site Remediation - Pine Farm    |           | 500.00             |       |        |        |            |           |  |
| Subtotal - Other Direct Cost    | s         |                    |       |        |        |            | 12,187.8  |  |
|                                 |           |                    |       |        |        |            |           |  |
| Total Estimated Cost            | s         |                    |       |        |        |            | 25,291.3  |  |
|                                 |           |                    |       |        |        |            |           |  |

Task 5 Brush Clearance

|                                 |           |                  |              |        | Breel  | - Clearance |            |
|---------------------------------|-----------|------------------|--------------|--------|--------|-------------|------------|
|                                 |           | Loaded<br>Hourly | Hours<br>per | Number | Number | Estimated   |            |
| Labor Category                  |           | Rate             | Week         | Weeks  | People | Номго       | Amount     |
| Program Management I            |           | 82.06            |              | -      |        | -           | -          |
| Project Manager III             |           | 76.92            |              |        |        | •           | -          |
| Project Manager II              |           | 66.67            |              |        |        | -           | -          |
| Certified Industrial Hygienist  |           | 74.81            |              |        |        |             | -          |
| Engineer II                     |           | 76.92            |              |        |        | -           | -          |
| Survey Manager                  |           | 56.42            |              |        |        | -           | •          |
| Surveyor V                      |           | 46.16            |              |        |        | -           | _          |
| Sulveyor v                      |           | 45.10            |              |        |        |             |            |
| Quality Control Specialist      | Regular   | 47.04            |              |        |        | -           |            |
| Site Safety Officer             | Regular   | 47.04            |              |        |        | -           | -          |
| UXO Supervisor/Tech VI          | Regular   | 53.29            |              |        |        | -           | -          |
| UXO Supervisor/Tech V           | Regular   | 47.04            |              |        |        | -           | _          |
| UXO Technician IV               | Regular   | 40.49            | 40.00        | 3,50   | 2.00   | 280.00      | 11,337.20  |
| UXO Technician III              | Regular   | 34.10            |              |        |        | -           | · <u>-</u> |
| Laborer II                      | Regular   | 28.85            | 40.00        | 3.50   | 6,00   | 840.00      | 24,066.00  |
| LUVVISI II                      | ( togota) |                  | 10.00        |        |        |             | •          |
| Subtotal - Labo                 | r         |                  |              |        |        | 1,120.00    | 35,403.20  |
| 4444                            | ,         |                  |              |        |        |             |            |
|                                 |           |                  |              |        |        |             |            |
|                                 |           | Loaded           |              | Number | Number |             |            |
| Other Direct Costs              |           | Rate             |              | Weeks  | Units  |             | Amount     |
| FM Radio, Handheld w/ charger   |           | 25.69            |              | 3,50   | 2.00   |             | 179.8      |
| FM Radio Repeater/Base Station  |           | 44.97            |              |        |        |             | -          |
| Cellular Telephone and Service  |           | 64.24            |              |        |        |             | -          |
| Video Camera                    |           | 32.12            |              |        |        |             | -          |
| Computer                        |           | 96.36            |              |        |        |             | -          |
| Brushcutter, power              |           | 96,36            |              | 3.50   | 4.00   |             | 1,349.04   |
| Chainsaw                        |           | 64.24            |              | 3.50   | 2.00   |             | 449.6      |
| EOD Demolition Kit              |           | 51,39            |              |        |        |             | -          |
| Foester Ferrex Ordnance Locator |           | 385.43           |              |        |        |             |            |
| Schonstedt Magnetic Locator     |           | 51.39            |              | 3.50   | 2.00   |             | 359.7      |
| Explosive Storage magazine      |           | 44.97            |              |        |        |             |            |
| Carrier Phase GPS               |           | 699.35           |              |        |        |             | -          |
| Surveyor's Kit                  |           | 64.24            |              |        |        |             | -          |
| Total Station Survey Equipment  |           | 835.11           |              |        |        |             | -          |
| Ford Explorer                   |           | 321.20           |              |        |        |             | -          |
| Pickup, 4x4, 3/4 Ton            |           | 449.67           |              | 3.50   | 2.00   |             | 3,147.6    |
| Air Fare - Round Trip           |           | 1,220.54         |              |        |        |             | -          |
| Mileage                         |           | 0.40             |              | 50.00  | 2.00   |             | 40.0       |
| Fuel                            |           | 1.74             |              | 3.25   | 64.00  |             | 361.9      |
| Lodging                         |           | 68.09            |              | 35.00  | 3,50   |             | 8,341.0    |
| Meals and Incidentals           |           | 38.55            |              | 35.00  | 3.50   |             | 4,722.3    |
| Project Consumables             |           | 192.72           |              | 6.00   | 1.00   |             | 1,158.3    |
| Printing and Binding            |           | 205.56           |              |        |        |             | -          |
| Shipping                        |           | 154.17           |              |        |        |             | -          |
| Site Trailer                    |           | 983.59           |              |        |        |             | -          |
| Electrical Hook Up              |           | 1,927.17         |              |        |        |             | -          |
| Magazine Fencing                |           | 899.35           |              |        |        |             | -          |
| Magazine Mobilization           |           | 770.87           |              |        |        |             | -          |
| Donor Explosives                |           | 1,541.74         |              |        |        |             | -          |
| Site Remediation - Pine Farm    |           | 500,00           |              |        |        |             | -          |
| Subtotal - Other Direct Cos     | ts T      |                  |              |        |        |             | 20,107.6   |
|                                 |           |                  |              |        |        |             |            |
| Total Estimated Cos             |           |                  |              |        |        |             | 55,510.8   |

Tuck 6

|  |         |                          |                      | 8               | mbaurlace '      | Clearance          |           |
|--|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
|  |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt    |
| Labor Category                             |         |                          | W eem                | Weeks           | I Colonia        | 110000             |           |
| Program Management I                       |         | 82.06                    |                      |                 |                  | -                  | -         |
| Project Manager III                        |         | 76.92                    |                      |                 |                  | -                  | _         |
| Project Manager II                         |         | 66,67                    |                      |                 |                  | -                  | -         |
| Certified Industrial Hygienist             |         | 74.81                    |                      |                 |                  | -                  | -         |
| Engineer II                                |         | 76,92                    |                      |                 |                  | -                  | -         |
| Survey Manager                             |         | 56.42                    |                      |                 |                  | -                  | -         |
| Surveyor V                                 |         | 46.16                    |                      |                 |                  | -                  |           |
| Quality Control Specialist                 | Regular | 47.04                    | : <u>.</u> .         |                 |                  | -                  | -         |
| Site Safety Officer                        | Regular | 47.04                    |                      |                 |                  | _                  | _         |
| •  | Regular | 53.29                    |                      |                 |                  | _                  | -         |
| UXO Supervisor/Tech VI                     | Regular | 47.04                    | 40.00                | 2.25            | 2.00             | 180.00             | 8,467.20  |
| UXO Supervisor/Tech V<br>UXO Technician IV | Regular | 40.49                    | 40.00                | 2.25            | 8.00             | 720.00             | 29,152.80 |
| =::= : == :                                | Regular | 34.10                    | 40.00                | 2,20            | 0.00             | -                  |           |
| UXQ Technician III<br>Laborer II           | Regular | 28.65                    |                      |                 |                  | _                  | -         |
| Laborer II                                 | Rogalar | 20,00                    |                      |                 |                  | -                  |           |
| Subtotal - Labor                           | •       |                          |                      |                 |                  | 900,00             | 37,620.00 |
|  |         |                          |                      |                 |                  |                    |           |
|  |         | Loaded                   |                      | Number          | Number           |                    |           |
| Other Direct Costs                         |         | Rate                     |                      | Weeks           | Units            |                    | Amount    |
| FM Radio, Handheld w/ charger              |         | 25.69                    |                      | 2.25            | 2.00             |                    | 115.6     |
| FM Radio Repeater/Base Station             |         | 44,97                    |                      |                 |                  |                    | -         |
| Cellular Telephone and Service             |         | 64.24                    |                      |                 |                  |                    | -         |
| Video Camera                               |         | 32.12                    |                      |                 |                  |                    | -         |
| Computer                                   |         | 96.36                    |                      |                 |                  |                    | -         |
| Brushcutter, power                         |         | 96.36                    |                      |                 |                  |                    |           |
| Chainsaw                                   |         | 64.24                    |                      |                 | •                |                    | -         |
| EOD Demolition Kit                         |         | 51,39                    |                      | 2.25            | 1.00             |                    | 115.6     |
| Foester Ferrex Ordnance Locator            |         | 385.43                   |                      |                 |                  |                    | -         |
| Schonstedt Magnetic Locator                |         | 51.39                    |                      | 2.25            | 8.00             |                    | 925.0     |
| Explosive Storage magazine                 |         | 44.97                    |                      |                 |                  |                    | -         |
| Carrier Phase GPS                          |         | 899.35                   |                      |                 |                  |                    | -         |
| Surveyor's Kit                             |         | 64.24                    |                      |                 |                  |                    | -         |
| Total Station Survey Equipment             |         | 835,11                   |                      |                 |                  |                    | -         |
| Ford Explorer                              |         | 321.20                   |                      |                 |                  |                    | -         |
| Pickup, 4x4, 3/4 Ton                       |         | 449.67                   |                      |                 |                  |                    | -         |
| Air Fare - Round Trip                      |         | 1,220.54                 |                      |                 |                  |                    |           |
| Mileage                                    |         | 0.40                     |                      |                 |                  |                    | -         |
| Fuel                                       |         | 1.74                     |                      |                 |                  |                    | •         |
| Lodging                                    |         | 68.09                    | :                    | 16.00           | 10.00            |                    | 10,894.4  |
| Meals and Incidentals                      |         | 38.55                    |                      | 16.00           | 10.00            |                    | 6,168.0   |
| Project Consumables                        |         | 192.72                   |                      |                 |                  |                    | ٠         |
| Printing and Binding                       |         | 205.56                   |                      |                 |                  |                    | -         |
| Shipping                                   |         | 154.17                   |                      |                 |                  |                    | -         |
| Site Trailer                               |         | 963,59                   |                      |                 |                  |                    | -         |
| Electrical Hook Up                         |         | 1,927.17                 |                      |                 |                  |                    |           |
| Magazine Fencing                           |         | 699.35                   |                      |                 |                  |                    | -         |
| Magazine Mobilization                      |         | 770.87                   |                      |                 |                  |                    | -         |
| Donor Explosives                           |         | 1,541.74                 |                      | 1.50            | 0.75             |                    | 1,734.4   |
| Site Remediation - Pine Farm               |         | 500.00                   |                      |                 |                  |                    | •         |
| Subtotal - Other Direct Cost               | 5       |                          |                      |                 |                  |                    | 19,953.1  |
| Total Estimated Cost                       |         |                          |                      |                 |                  |                    | 57,573.1  |
| Total Estimated Cost                       |         | was are a constraint     |                      |                 |                  |                    | 5.,414.   |

Task 7 Serap Tues-In

|                                 |         |          |             |                 | Strap To         | uru-la             |          |
|---------------------------------|---------|----------|-------------|-----------------|------------------|--------------------|----------|
|                                 |         | Loaded   | Houre       |                 |                  |                    |          |
|                                 |         | Hourly   | per<br>W/ I | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |
| Labor Category                  | -       | Rate     | Week        | Weeks           | People.          | 114014             |          |
| Program Management I            |         | 82.06    |             |                 |                  | -                  | -        |
| Project Manager III             |         | 76.92    |             |                 |                  | -                  | -        |
| Project Manager II              |         | 66.67    |             |                 |                  | _                  | _        |
| Certified Industrial Hygienist  |         | 74,81    |             |                 |                  | _                  | _        |
| Engineer II                     |         | 76.92    |             |                 |                  |                    | _        |
| Survey Manager                  |         | 56.42    |             |                 |                  | _                  |          |
| Surveyor V                      |         | 46.16    |             |                 |                  |                    |          |
| Quality Control Specialist      | Regular | 47.04    |             |                 | "                | -                  |          |
| Site Safety Officer             | Regular | 47.04    |             |                 |                  | -                  | •        |
| UXO Supervisor/Tech VI          | Regular | 53.29    | 40.00       | 0.50            | 1,00             | 20.00              | 1,065.80 |
| UXO Supervisor/Tech V           | Regular | 47.04    |             |                 |                  | -                  | -        |
| UXO Technician IV               | Regular | 40.49    | 40.00       | 0,50            | 1,00             | 20.00              | 809.80   |
| UXO Technician III              | Regular | 34.10    |             |                 |                  | -                  | -        |
| Laborer II                      | Regular | 28.65    |             |                 |                  |                    | -        |
| Caborer II                      | ragolar |          |             |                 |                  |                    |          |
| Subtotal - Labo                 | и       |          |             |                 |                  | 40.00              | 1,875.60 |
|                                 |         |          |             |                 |                  |                    |          |
|                                 |         | Loaded   |             | Number          | Number           |                    |          |
| Other Direct Costs              |         | Rate     |             | Weeks           | Units            |                    | Amount   |
| FM Radio, Handheld w/ charger   |         | 25.69    |             |                 |                  |                    |          |
| FM Radio, Repeater/Base Station |         | 44.97    |             |                 |                  |                    | _        |
| Cellular Telephone and Service  |         | 64.24    |             |                 |                  |                    | -        |
| Video Camera                    |         | 32.12    |             |                 |                  |                    | -        |
| Computer                        |         | 96.36    |             |                 |                  |                    | _        |
| Brushcutter, power              |         | 96.36    |             |                 |                  |                    |          |
| Chainsaw                        |         | 64.24    |             |                 |                  |                    | -        |
| EOD Demolition Kit              |         | 51,39    |             |                 |                  |                    |          |
| Foester Ferrex Ordnance Locator |         | 385.43   |             | Į.              |                  |                    | -        |
| Schonstedt Magnetic Locator     |         | 51.39    |             |                 |                  |                    | -        |
| Explosive Storage magazine      |         | 44,97    |             |                 |                  |                    | •        |
| Carrier Phase GPS               |         | 899,35   |             |                 |                  |                    | -        |
| Surveyor's Kit                  |         | 64.24    |             |                 |                  |                    | _        |
| Total Station Survey Equipment  |         | 835.11   |             |                 |                  |                    | -        |
| Ford Explorer                   |         | 321.20   |             |                 |                  |                    | -        |
| Pickup, 4x4, 3/4 Ton            |         | 449.67   |             | 1.00            | 0.25             |                    | 112.4    |
| Air Fare - Round Trip           |         | 1,220,54 |             |                 |                  |                    | -        |
| Mileage                         |         | 0.40     |             |                 |                  |                    | -        |
| Fuel                            |         | 1.74     |             | 80.00           | 1.00             |                    | 139.2    |
| Lodging                         |         | 68.09    |             | 1.00            | 2.00             |                    | 138.1    |
| Meals and incidentals           |         | 38.55    |             | 1.00            |                  |                    | 77.1     |
| Project Consumables             |         | 192.72   |             | 1.00            |                  |                    | 192.7    |
| Printing and Binding            |         | 205.56   |             |                 |                  |                    | •        |
| Shipping                        |         | 154.17   |             |                 |                  |                    | -        |
| Site Trailer                    |         | 963.59   |             |                 |                  |                    | -        |
| Electrical Hook Up              |         | 1,927.17 |             |                 |                  |                    | -        |
| Magazine Fencing                |         | 899.35   |             |                 |                  |                    | -        |
| Magazine Mobilization           |         | 770.87   |             |                 |                  |                    | -        |
| Donor Explosives                |         | 1,541.74 |             |                 |                  |                    | -        |
| Site Remediation - Pine Farm    |         | 500.00   |             |                 |                  |                    |          |
| Subtotal - Other Direct Co.     | sts     |          |             |                 |                  |                    | 657.6    |
|                                 |         |          |             |                 |                  |                    |          |
| Total Estimated Co.             | sts     |          |             |                 |                  |                    | 2,533.2  |

Task 8 Quality Control

| Lilie i ann   | •       |                          |                      |                 |                  |                    |              |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------------|
| Labor Catagory  |         | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeku | Number<br>People | Estimated<br>Hours | Amount       |
| Program Management I  |         | 82.06                    |                      |                 |                  |                    | -            |
| Project Manager III   |         | 76.92                    |                      |                 |                  | -                  | -            |
| Project Manager III   |         | 66,67                    |                      |                 |                  | •                  | -            |
| Certified Industrial Hygienist                              |         | 74,81                    |                      |                 |                  | _                  | -            |
| Engineer II   |         | 76.92                    |                      |                 |                  | -                  | •            |
| Survey Manager  |         | 58.42                    |                      |                 |                  | _                  | -            |
| Surveyor V  |         | 46.16                    |                      |                 |                  | -                  | _            |
| Surveyor  |         | 10.10                    |                      |                 |                  |                    |              |
| Quality Control Specialist                                  | Regular | 47.04                    | 40.00                | 2.25            | 1.00             | 90.00              | 4,233.60     |
| Site Safety Officer   | Regular | 47.04                    |                      |                 |                  | -                  | -            |
| UXO Supervisor/Tech VI                                      | Regular | 53.29                    |                      |                 |                  | -                  | -            |
| UXO Supervisor/Tech V                                       | Regular | 47.04                    |                      |                 |                  | -                  | •            |
| UXO Technician IV   | Regular | 40.49                    |                      |                 |                  | -                  | -            |
| UXO Technician III  | Regular | 34,10                    | 40.00                | 2,25            | 1.00             | 90.00              | 3,069.00     |
| Laborer II  | Regular | 28.65                    |                      |                 |                  | -                  | -            |
| Edbolot It  |         |                          |                      |                 |                  | •                  | -            |
| Subtotal - Labo   | or a    |                          |                      |                 |                  | 180.00             | 7,302.60     |
|   |         |                          |                      |                 |                  |                    |              |
|   |         | Loaded                   |                      | Number          | Number           |                    |              |
| Other Direct Costs  |         | Rate                     |                      | Weeks           | Units            |                    | Amount       |
| FM Radio, Handheld w/ charger                               |         | 25,69                    |                      | 2.25            | 1,00             |                    | 57.80        |
| FM Radio Repeater/Base Station                              |         | 44.97                    |                      |                 |                  |                    | -            |
| Cellular Telephone and Service                              |         | 64.24                    |                      |                 |                  |                    | •            |
| Video Camera  |         | 32.12                    |                      |                 |                  |                    | -            |
| Computer  |         | 96.36                    |                      |                 |                  |                    | -            |
| Brushcutter, power  |         | 96.36                    |                      |                 |                  |                    | -            |
| Chainsaw  |         | 84.24                    |                      |                 |                  |                    | -            |
| EOD Demolition Kit  |         | 51.39                    |                      |                 |                  |                    | •            |
| Foester Ferrex Ordnance Locator                             |         | 385.43                   |                      | İ               |                  |                    |              |
| Schonstedt Magnetic Locator                                 |         | 51.39                    |                      | 2.25            | 2.00             |                    | 231.26       |
| Explosive Storage magazine                                  |         | 44.97                    |                      |                 |                  |                    | -            |
| Carrier Phase GPS   |         | 899,35                   |                      |                 |                  |                    | -            |
| Surveyor's Kit  |         | 64.24                    |                      |                 |                  | 8                  | •            |
| Total Station Survey Equipment                              |         | 635.11                   |                      |                 |                  |                    | <del>-</del> |
| Ford Explorer   |         | 321.20                   |                      | 2,25            | 1.00             |                    | 722.70       |
| Pickup, 4x4, 3/4 Ton  |         | 449.67                   |                      |                 |                  |                    | -            |
| Air Fare - Round Trip                                       |         | 1,220.54                 |                      | 1.00            | 2.00             |                    | 2,441.08     |
| Mileage   |         | 0.40                     |                      | 50.00           | 2.00             |                    | 40.00        |
| Fuel  |         | 1.74                     |                      | 2.25            | 78.00            |                    | 305,37       |
| Lodging   |         | 68.09                    |                      | 16.00           | 2.00             |                    | 2,178.88     |
| Meals and Incidentals                                       |         | 38.55                    |                      | 18.00           | 2.00             |                    | 1,233.60     |
| Project Consumables   |         | 192.72                   |                      | 2.25            | 1.00             |                    | 433.62       |
| Printing and Binding  |         | 205.56                   |                      |                 |                  |                    | i -          |
| Shipping  |         | 154.17                   |                      |                 |                  |                    | · ·          |
| Site Trailer  |         | 963.59                   |                      |                 |                  |                    | Ī .          |
| Electrical Hook Up  |         | 1,927.17                 |                      |                 |                  |                    |              |
| Magazine Fencing  |         | 899.35                   |                      |                 |                  |                    |              |
| Magazine Mobilization                                       |         | 770.87                   |                      |                 |                  |                    | •            |
| Donor Explosives  |         | 1,541.74                 |                      |                 |                  |                    | _            |
| Site Remediation - Pine Farm<br>Subtotal - Other Direct Cos | sts     | 500.00                   |                      |                 |                  |                    | 7,644.3      |
|   |         |                          |                      |                 |                  |                    | 44 040 64    |
| Total Estimated Cos   | sts T   |                          |                      |                 |                  |                    | 14,946.91    |

Task 9 Final Report

|                                 |              |          |       |                 | Final R         | eport     |                    |
|---------------------------------|--------------|----------|-------|-----------------|-----------------|-----------|--------------------|
|                                 |              | Landed   | Lours |                 |                 |           |                    |
|                                 |              | Hourly   | per   |                 | Number          | Estimated |                    |
| Labor Category                  |              | Rate     | Week  | Weeks           | People          | Hours     | Ameunt             |
| Program Management I            |              | 82.06    | 42.00 | 0.25            | 1.00            | 10.50     | 861.63             |
| Project Manager III             |              | 76.92    |       |                 |                 | -         | -                  |
| Project Manager II              |              | 68.67    | 42.00 | 2.50            | 1,00            | 105.00    | 7,000.35           |
| Certified Industrial Hygienist  |              | 74.81    |       |                 |                 | -         |                    |
| Engineer II                     |              | 76.92    | 42.00 | 1.00            | 1.00            | 42.00     | 3,230.64           |
| Survey Manager                  |              | 56.42    | 42.00 | 2.00            | 1.00            | 84.00     | 4,739.28           |
| Surveyor V                      |              | 46.16    |       |                 |                 | -         |                    |
|                                 |              |          | :     |                 |                 |           |                    |
| Quality Control Specialist      | Regular      | 47.04    |       |                 |                 | -         | -                  |
| Site Safety Officer             | Regular      | 47.04    |       |                 |                 | -         | -                  |
| UXO Supervisor/Tech VI          | Regular      | 53.29    |       |                 |                 | •         | -                  |
| UXO Supervisor/Tech V           | Regular      | 47.04    |       |                 |                 | -         | -                  |
| UXO Technician IV               | Regular      | 40.49    |       |                 |                 | •         | -                  |
| UXO Technician III              | Regular      | 34,10    |       |                 |                 | -         | -                  |
| Laborer II                      | Regular      | 28.65    |       |                 |                 |           | -                  |
|                                 |              |          |       |                 |                 | -         | 45.004.00          |
| Subtotal - Labo                 | ÞΓ           |          |       |                 |                 | 241.50    | 15,831.90          |
|                                 |              |          |       |                 |                 |           |                    |
|                                 |              | 4        |       | NI              | Mumbar          |           |                    |
|                                 |              | Loaded   |       | Number<br>Weeks | Number<br>Units |           | Amount             |
| Other Direct Costs              |              | Rate     |       | AAGGKS          | Office          |           | Allouic            |
| FM Radio, Handheld w/ charger   |              | 25.69    |       |                 |                 |           |                    |
| FM Radio Repeater/Base Station  |              | 44.97    |       |                 |                 |           | •                  |
| Cellular Telephone and Service  |              | 64.24    |       |                 |                 |           | -                  |
| Video Camera                    |              | 32.12    |       |                 |                 |           | •                  |
| Computer                        |              | 96.36    |       | ļ               |                 | 3         | •                  |
| Brushcutter, power              |              | 96.36    |       |                 |                 |           | -                  |
| Chainsaw                        |              | 64.24    |       |                 |                 |           | -                  |
| EOD Demolition Kit              |              | 51.39    |       |                 |                 |           | -                  |
| Foester Ferrex Ordnance Locator |              | 385.43   |       |                 |                 |           | -                  |
| Schonstedt Magnetic Locator     |              | 51.39    |       |                 |                 |           | -                  |
| Explosive Storage magazine      |              | 44.97    |       |                 |                 |           | •                  |
| Carrier Phase GPS               |              | 899.35   |       |                 |                 |           | -                  |
| Surveyor's Kit                  |              | 64.24    |       |                 |                 |           | _                  |
| Total Station Survey Equipment  |              | 835.11   |       |                 |                 |           | -                  |
| Ford Explorer                   |              | 321.20   |       |                 |                 |           | •                  |
| Pickup, 4x4, 3/4 Ton            |              | 449.67   |       |                 |                 |           | i -                |
| Air Fare - Round Trip           |              | 1,220.54 |       |                 |                 |           | -                  |
| Mileage                         |              | 0.40     |       |                 |                 |           | _                  |
| Fuel                            |              | 1.74     |       |                 |                 |           | _                  |
| Lodging                         |              | 68.09    |       |                 |                 |           |                    |
| Meals and incidentals           |              | 38.55    |       |                 |                 |           | <u> </u>           |
| Project Consumables             |              | 192.72   |       | 4.00            | 2.00            |           | 411.12             |
| Printing and Binding            |              | 205,58   |       | 1.00            | 2.00            |           | 11.72              |
| Shipping                        |              | 154.17   |       |                 |                 |           |                    |
| Site Trailer                    |              | 963.59   |       |                 |                 |           |                    |
| Electrical Hook Up              |              | 1,927.17 |       |                 |                 |           | •                  |
| Magazine Fencing                |              | 899.35   |       |                 |                 |           | Ī _                |
| Magazine Mobilization           |              | 770.87   |       |                 |                 |           | -                  |
| Donor Explosives                |              | 1,541.74 |       |                 |                 |           | <u> </u>           |
| Site Remediation - Pine Farm    |              | 500.00   |       |                 |                 |           | 411.12             |
| Subtotal - Other Direct Co:     | sts T        |          |       |                 |                 |           | <del>4</del> 17,12 |
|                                 |              |          |       |                 |                 |           | 18 242 02          |
| Total Estimated Co.             | STS TO STATE |          |       |                 |                 |           | 16,243.02          |

| Pine Far                       | π .     |                          | Task 10               |                 |                  |                    |        |  |  |  |
|--------------------------------|---------|--------------------------|-----------------------|-----------------|------------------|--------------------|--------|--|--|--|
|                                |         |                          |                       |                 | Site Rem         | ediation           |        |  |  |  |
| Labor Catogory                 |         | Londed<br>Hourly<br>Rate | Houre<br>per<br>Week_ | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |  |  |  |
| Program Management I           |         | 82.06                    |                       |                 |                  | •                  | •      |  |  |  |
| Project Manager III            |         | 76.92                    |                       |                 |                  | -                  | •      |  |  |  |
| Project Manager II             |         | 66.67                    |                       |                 |                  | •                  | -      |  |  |  |
| Certified Industrial Hygienist |         | 74.81                    |                       |                 |                  | -                  | =      |  |  |  |
| Engineer II                    |         | 76.92                    |                       |                 |                  | -                  | -      |  |  |  |
| Survey Manager                 |         | 56.42                    |                       |                 |                  | •                  | -      |  |  |  |
| Surveyor V                     |         | 46.16                    |                       |                 |                  | -                  | -      |  |  |  |
|                                |         |                          |                       |                 |                  |                    |        |  |  |  |
| Quality Control Specialist     | Regular | 47.04                    |                       |                 |                  | •                  | •      |  |  |  |
| Site Safety Officer            | Regular | 47.04                    |                       |                 |                  | -                  | -      |  |  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                       |                 |                  | -                  | -      |  |  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                       |                 |                  | •                  | -      |  |  |  |
| UXO Technician IV              | Regular | 40.49                    |                       |                 |                  | -                  | -      |  |  |  |
| UXO Technician III             | Regular | 34.10                    |                       |                 |                  | -                  | -      |  |  |  |
| Laborer II                     | Regular | 28.65                    |                       |                 |                  | -                  | -      |  |  |  |
|                                |         |                          |                       |                 |                  |                    |        |  |  |  |
| Subtotal - Lab                 | or      |                          |                       |                 |                  | -                  | -      |  |  |  |
|                                |         |                          | İ                     |                 |                  |                    |        |  |  |  |
|                                |         | Loaded                   |                       | Number          | Number           |                    |        |  |  |  |
| Other Direct Costs             |         | Rate                     | _                     | Weeks           | Units            |                    | Amount |  |  |  |
| FM Radio, Handheld w/ charger  |         | 25.69                    |                       |                 |                  |                    | -      |  |  |  |
| FM Radio Repeater/Base Station |         | 44.97                    |                       |                 |                  |                    | -      |  |  |  |
| Cellular Telephone and Service |         | 64.24                    |                       |                 |                  |                    | -      |  |  |  |

|                                | Loaded   | Number Number |        |
|--------------------------------|----------|---------------|--------|
| Other Direct Costs             | Rate     | Weeks Units   | Amount |
| M Radio, Handheld w/ charger   | 25.69    |               | -      |
| M Radio Repeater/Base Station  | 44.97    |               | -      |
| Cellular Telephone and Service | 64.24    |               | -      |
| /ideo Camera                   | 32.12    |               | •      |
| Computer                       | 96.36    |               | -      |
| Brushcutter, power             | 96.36    |               | -      |
| hainsaw                        | 64.24    |               | -      |
| OD Demolition Kit              | 51.39    |               | -      |
| oester Ferrex Ordnance Locator | 385,43   |               | •      |
| Schonstedt Magnetic Locator    | 51.39    |               | -      |
| Explosive Storage magazine     | 44.97    |               | •      |
| Carrier Phase GPS              | 899.35   |               | -      |
| Surveyor's Kit                 | 64.24    |               | -      |
| otal Station Survey Equipment  | 835.11   |               | -      |
| ord Explorer                   | 321.20   |               | -      |
| Pickup, 4x4, 3/4 Ton           | 449.67   |               | +      |
| Air Fare - Round Trip          | 1,220.54 |               | -      |
| Mileage                        | 0.40     |               | -      |
| ue)                            | 1.74     |               | +      |
| .odging                        | 68.09    |               | •      |
| Meals and Incidentals          | 38.55    |               | -      |
| Project Consumables            | 192.72   |               | -      |
| Printing and Binding           | 205.56   |               | -      |
| Shipping                       | 154.17   |               | -      |
| Site Trailer                   | 963.59   |               | -      |
| Electrical Hook Up             | 1,927.17 |               | -      |
| Magazine Fencing               | 899.35   |               | •      |
| Magazine Mobilization          | 770.87   |               | •      |
| Donor Explosives               | 1,541.74 |               | -      |
| Site Remediation - Pine Farm   | 500.00   | 1.00 1.00     |        |
| Subtotal - Other Direct Costs  |          |               | 500.00 |
|                                |          |               | 500.00 |
| Total Estimated Costs          |          |               | 500.00 |

# SECTION G-3 COST ESTIMATE FOR THE LANDFILL AND COMPOST A AREAS

SELECTED REMOVAL ALTERNATIVE

# Landfill and Compost A Areas

# Alternative 6 - Surface and Subsurface Clearance of OE Over Selected Areas to a Depth of Four Feet (Compost A and Landfill 2 Areas)

Alternative 6 provides for OE surface and subsurface clearance over 15 acres of the area to a depth of 4 feet. The landfill and composting areas consist of 21.31 acres. Approximately 6.31 acres were previously cleared. Electronic detection instruments are necessary to detect OE hidden from view by high grasses, brush, and terrain. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are moderate in the Compost A area but heavy at Landfill 2. Production effort is established at 4 grids per day per team. It is assumed that approximately 60% of the total grids will require moderate brush clearance efforts. Brush clearance and surface clearance production rates have been proportionally increased to account for the effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. The production rate for OE removal was reduced to one acre per workday due to its proximity to the landfill. Site restoration line item has been deleted given the end use of this area as a landfill. Due to the limited scope and duration of this clearance effort, a site visit and site trailer/office will not be necessary and have been excluded from this cost estimate.

Total Acreage/grids to Surface Clear: 21.31acres Total Acreage Previously Cleared of UXO 6.31 acres Adjusted acreage: 15 acres 68 grids Adjusted number of grids Grids Requiring Brush Clearance 42 grids Search Grid Size: 100' X 100' .22 acres per grid

#### Production Rates:

Brush Clearance 4 grids per day per four man team (one team) Land Survey 10 grids per day per two person team (one team) Surface Clearance

4.36 grids per workday (1 acres) per 5 person team (1 team);

#### Duration:

Project Management 20 working days/5 weeks Land Survey 11 working days/2.75 weeks (one team) Brush Clearance 7 working days/1.75 weeks (one team)

Surface Clearance 16 working days/4 weeks (one five-person teams)

Effort included in Surface Clearance Disposal 10 working days/2.5 weeks (2 person team) Ouality Control

Total Duration 20 Working Days/5 weeks

# Surface and Subsurface Clearance of OE in Selected Areas to a depth of 4 ft - Alt 6

Comps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost Area.

| Clearance of Compost Area - B  | Clearance of Compost Area - B & Landiff 2 |                          |                      | Summary         |                  |                    |            |  |  |  |  |  |
|--------------------------------|---|--------------------------|----------------------|-----------------|------------------|--------------------|------------|--|--|--|--|--|
| Labor Category                 |   | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount     |  |  |  |  |  |
| Program Management i           |   | 82.06                    | 79/12                |                 |                  | 27.30              | 2,240.24   |  |  |  |  |  |
| Project Manager III            |   | 76.92                    |                      |                 |                  | 210.00             | 16,153.20  |  |  |  |  |  |
| -                              |   | 66,67                    |                      |                 |                  | 168.00             | 11,200.56  |  |  |  |  |  |
| Project Manager II             |   | 74.81                    |                      |                 |                  | 12.00              | 897.72     |  |  |  |  |  |
| Certified Industrial Hygienist |   | 76.92                    |                      |                 |                  | 58.60              | 4,522.90   |  |  |  |  |  |
| Engineer II                    |   | 56.42                    |                      |                 |                  | 147.00             | 8,293.74   |  |  |  |  |  |
| Survey Manager                 |   | 46.16                    |                      | 1.6 (600 E      |                  | 73.50              | 3,392,76   |  |  |  |  |  |
| Surveyor V                     |   |                          |                      |                 |                  | 1202               |            |  |  |  |  |  |
| a 40 (300) ha                  |   | 47.04                    |                      |                 |                  | 120.00             | 5,644.80   |  |  |  |  |  |
| Quality Control Specialist     | Regular                                   |                          | ٠.                   |                 |                  | 200.00             | 9,408.00   |  |  |  |  |  |
| Site Safety Officer            | Regular                                   | 47.04                    |                      |                 |                  | 250.00             | 13,322,50  |  |  |  |  |  |
| UXO Supervisor/Tech VI         | Regular                                   | 53,29                    |                      |                 |                  | 160,00             | 7,526.40   |  |  |  |  |  |
| UXO Supervisor/Tech V          | Regular                                   | 47.04                    |                      |                 |                  |                    | •          |  |  |  |  |  |
| UXO Technician IV              | Regular                                   | 40.49                    |                      |                 |                  | 880.00             | 35,631.20  |  |  |  |  |  |
| UXO Technician III             | Regular                                   | 34.10                    |                      |                 |                  | 190.00             | 6,479.00   |  |  |  |  |  |
| Laborer II                     | Regular                                   | 28.65                    |                      |                 |                  | 660.00             | 18,909.00  |  |  |  |  |  |
|                                |   |                          |                      |                 |                  |                    | <u> </u>   |  |  |  |  |  |
| Sut                            | ototal - Labor                            |                          |                      |                 |                  | 3,156.60           | 143,622.02 |  |  |  |  |  |
|                                |   |                          |                      |                 |                  |                    |            |  |  |  |  |  |

| (2) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |                |          |        |        | W811.1     |
|---|----------------|----------|--------|--------|------------|
|   |                | Loaded   | Number | Number |            |
| Other Direct Costs                        |                | Rate     | Weeks  | Units  | Amount     |
| M Radio, Handheld w/ charger              | . Wy           | 25,69    |        |        | 513.81     |
| M Radio Repeater/Base Station             |                | 44.97    |        |        | 899.40     |
| ellular Telephone and Service             |                | 64.24    |        |        | 321.20     |
| /ideo Camera                              |                | 32.12    |        |        | 160.60     |
| Computer                                  | 1.50           | 96.36    |        |        | 746.79     |
| Brushoutter, power                        |                | 96.36    |        |        | 1,059.96   |
| hainsaw                                   | r Spare op van | 64.24    |        |        | 353.32     |
| OD Demolition Kit                         |                | 51,39    |        |        | 205.56     |
| oester Ferrex Ordnance Locator            |                | 385.43   |        |        |            |
| Schonstedt Magnetic Locator               |                | 51.39    |        |        | 2,325.40   |
| xplosive Storage magazine                 |                | 44.97    |        |        | 449.70     |
| Carrier Phase GPS                         |                | 899.35   |        |        | 2,248.38   |
| Surveyor's Kit                            | 5.111748       | 64.24    |        |        | 112.42     |
| otal Station Survey Equipment             |                | 835.11   |        |        | 1,670.22   |
| ord Explorer                              |                | 321,20   |        |        | 1,927.20   |
| ickup, 4x4, 3/4 Ton                       |                | 449.67   |        |        | 2,585.61   |
| Ir Fare - Round Trip                      |                | 1,220,54 |        |        | 9,764.32   |
| Aileage                                   | fastadri       | 0.40     |        |        | 2,420.00   |
| uel                                       |                | 1.74     |        |        | 1,186.68   |
| odaina                                    |                | 68.09    |        |        | 34,589.72  |
| Aeals and Incidentals                     |                | 38.55    |        |        | 20,739.90  |
| Project Consumables                       |                | 192.72   |        |        | 3,420.78   |
| Printing and Binding                      |                | 205.56   |        |        | 2,055.60   |
| Shipping                                  |                | 154.17   |        |        | 1,079.19   |
| Site Trailer                              |                | 963.59   |        |        | 4,817.95   |
| lectrical Hook Up                         |                | 1.927.17 |        |        | -          |
| Magazine Fencing                          |                | 899.35   |        |        | 899.35     |
| Magazine Mobilization                     |                | 770.87   |        |        | 770.87     |
| Donor Explosives                          |                | 1,541.74 |        |        | 306.35     |
| Site Remediation - Pine Farm              |                | 300.00   |        |        |            |
| Subtotal - Other Direct Costs             |                |          |        |        | 97,632.28  |
| CENTRAL - CHIEF DIRECT COMP               |                |          |        |        |            |
| Total Estimated Costs                     |                |          |        |        | 241,254.30 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas

Schonstedt Magnetic Locator

Explosive Storage magazine

**Total Station Survey Equipment** 

Carrier Phase GPS

Pickup, 4x4, 3/4 Ton

Air Fare - Round Trip

Meals and incidentals

Project Consumables

Printing and Binding

Electrical Hook Up Magazine Fencing

**Donor Explosives** 

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

**Total Estimated Costs** 

Surveyor's Kit

Ford Explorer

Mileage

Lodging

Shipping Site Trailer

Fuel

| Engineering Design Cost Estima<br>Landfill and Compost A Area<br>Clearance of Compost Area - B & Landfill | 98                                      |                          |                      |                 |                  |                    |          |
|---|---|--------------------------|----------------------|-----------------|------------------|--------------------|----------|
| Labor Category  |   | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |
| Program Management I  | 1.5                                     | 82.06                    | -                    | -               | -                | •                  | -        |
| Project Manager III   |   | 76.92                    |                      |                 |                  | -                  | •        |
| Project Manager II  |   | 66,67                    | •                    | -               | •                | -                  | -        |
| Certified Industrial Hygienist  |   | 74.81                    |                      |                 |                  | -                  | -        |
| Engineer II   |   | 76.92                    |                      |                 |                  |                    | •        |
| Survey Manager  |   | 56.42                    |                      |                 |                  |                    | •        |
| Surveyor V  |   | 46.16                    |                      |                 |                  |                    |          |
| ***   |   |                          |                      |                 |                  |                    |          |
| Quality Control Specialist  | Regular                                 | 47.04                    |                      |                 |                  | •                  | •        |
| Site Safety Officer   | Regular                                 | 47.04                    |                      |                 |                  | -                  | •        |
| UXO Supervisor/Tech VI  | Regular                                 | 53.29                    | •                    | -               | -                | -                  | -        |
| UXO Supervisor/Tech V   | Regular                                 | 47.04                    |                      |                 |                  | -                  | -        |
| UXO Technician IV   | Regular                                 | 40.49                    |                      |                 |                  | •                  | -        |
| UXO Technician III  | Regular                                 | 34.10                    |                      |                 |                  | -                  | -        |
| Laborer II  | Regular                                 | 28.65                    |                      |                 |                  | <b>-</b>           | -        |
| 11 (A.J.) 1 (A.J.) (A.J.)   | <u> </u>                                |                          |                      |                 |                  |                    | <u> </u> |
| Subtotal - Lab  | or                                      |                          |                      |                 |                  |                    | -        |
| 12 (2000) 12<br>27 (40  |   |                          |                      |                 |                  |                    |          |
|   | •                                       | Loaded                   |                      | Number          | Number           |                    |          |
| Other Direct Costs  |   | Rate                     |                      | Weeks           | Units            |                    | Amount   |
| FM Radio, Handheld w/ charger   |   | 25.69                    |                      |                 |                  |                    | -        |
| FM Radio Repeater/Base Station  |   | 44.97                    |                      |                 |                  |                    | -        |
| Celtular Telephone and Service  |   | 64.24                    |                      |                 | -                |                    |          |
| Video Camera  |   | 32.12                    |                      | -               | -                |                    |          |
| Computer  |   | 96.36                    |                      |                 |                  |                    | -        |
| Brushcutter, power  | 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 96.36                    |                      |                 |                  |                    | -        |
| Chainsaw  | 200                                     | 64.24                    |                      |                 |                  |                    | -        |
| EOD Demolition Kit  |   | 51.39                    |                      |                 |                  |                    |          |
| Foester Ferrex Ordnance Locator   |   | 385.43                   |                      | -               | •                |                    |          |
|   |   |                          |                      |                 |                  |                    |          |

51.39 44.97

899.35

64.24

835.11

321.20

449,67

0.40

1.74

68.09

38.55

192.72

205.56 154.17

963.59 1,927.17

899.35 770.87

1,541.74

300.00

1,220.54

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas
serance of Compost Area - 8 & Landfill 2

Task 2 Work Plan

| Clearance of Compost Area                            | - 8 & Landfill 2 |                  |       | Nonk Pien |        |            |          |
|--|------------------|------------------|-------|-----------|--------|------------|----------|
|  |                  | Loaded<br>Hourly | Hours | Number    | Number | Estimated  |          |
| Labor Category                                       |                  | Rate             | Week  | Weeks     | People | Hours      | Amount   |
| Program Management I                                 |                  | 82.06            | 42.00 | 0.40      | 1.00   | 16.80      | 1,378.61 |
| Project Manager III                                  |                  | 76.92            |       |           |        | •          | -        |
|  |                  | 66.67            | 42.00 | 1.50      | 1.00   | 63.00      | 4,200.21 |
| Project Manager II<br>Certified Industrial Hygienist |                  | 74,81            | 40.00 | 0.30      | 1.00   | 12.00      | 897.7    |
|  |                  | 76.92            | 42.00 | 0.40      | 1.00   | 16.80      | 1,292.2  |
| Engineer II  |                  | 56.42            | 42.00 | 0.50      | 1,00   | 21.00      | 1,184.8  |
| Survey Manager                                       |                  | 46.16            | 12.00 | 0.00      | .,     | -          | · -      |
| Surveyor V   |                  | 40.10            |       |           |        |            |          |
| 1991.  | Damilee          | 47.04            |       |           |        |            |          |
| Quality Control Specialist                           | Regular          |                  |       |           |        |            | _        |
| Site Safety Officer                                  | Regular          | 47.04            | 40.00 | 0.75      | 1.00   | 30.00      | 1,598.7  |
| UXO Supervisor/Tech VI                               | Regular          | 53.29            | 40.00 | 0.75      | 1.00   | 30.00      | 1,000.1  |
| UXO Supervisor/Tech V                                | Regular          | 47.04            |       |           |        | •          | -        |
| UXO Technician IV                                    | Regular          | 40.49            |       |           |        | -          | -        |
| UXO Technician III                                   | Regular          | 34.10            |       |           |        | -          | -        |
| Laborer II   | Regular          | 28.65            |       |           |        | •          | -        |
| ritari, Milani                                       |                  |                  |       |           |        | -          | -        |
|  | Subtotal - Labor |                  |       |           |        | 159.60     | 10,552.3 |
|  | 11 /2 (40)       | 747              |       |           |        |            |          |
|  | - Fability #     | 1                |       |           |        |            |          |
|  |                  | Loaded           |       | Number    | Number |            |          |
| Other Direct Costs                                   |                  | Rate             | _     | Weeks     | Units  |            | Amount   |
| FM Radio, Handheld w/ charger                        |                  | 25.69            |       |           |        |            | •        |
| FM Radio Repeater/Base Station                       |                  | 44.97            |       |           |        |            | -        |
| Cellutar Telephone and Service                       |                  | 64.24            |       |           |        |            | -        |
| Video Camera   |                  | 32.12            |       |           |        |            | -        |
| Computer   |                  | 96.36            |       | 1.00      | 1.00   |            | 96.3     |
| Brushcutter, power                                   |                  | 96.36            |       |           |        |            | -        |
| Chainsaw   |                  | 64.24            |       |           |        |            | _        |
| EOD Demolition Kit                                   |                  | 51.39            |       |           |        |            | _        |
| Foester Ferrex Ordnance Locator                      |                  | 385,43           |       |           |        |            | -        |
|  | •                | 51.39            |       |           |        |            |          |
| Schonstedt Magnetic Locator                          |                  | 44,97            |       |           |        |            |          |
| Explosive Storage magazine                           |                  | 899.35           |       |           |        |            | _        |
| Carrier Phase GPS                                    |                  | •                |       |           |        |            | _        |
| Surveyor's Kit                                       |                  | 64.24            |       |           |        |            |          |
| Total Station Survey Equipment                       |                  | 835.11           |       | 400       | 4.00   |            | 321.3    |
| Ford Explorer  |                  | 321.20           |       | 1.00      | 1.00   |            | 321.4    |
| Pickup, 4x4, 3/4 Ton                                 |                  | 449.67           |       |           |        |            | 1,220.5  |
| Air Fare - Round Trip                                |                  | 1,220.54         |       | 1.00      | 1.00   |            | •        |
| Mileage  |                  | 0.40             |       | 50.00     | 1.00   |            | 20.0     |
| Fuei   |                  | 1.74             |       | 1.00      | 40.00  |            | 69.6     |
| Lodging  | 430 4            | 68.09            |       | 6,00      | 1.00   |            | 408.     |
| Meals and Incidentals                                |                  | 38,55            |       | 7.00      | 1.00   |            | 269.     |
| Project Consumables                                  |                  | 192.72           |       | 8.00      | 1.00   |            | 1,541.7  |
| Printing and Binding                                 |                  | 205.56           |       | 1.00      | 200    |            | 411.1    |
| Shipping   |                  | 154.17           |       |           |        |            | -        |
| Site Trailer   |                  | 963.59           |       |           |        | <i>2</i> 7 | •        |
| Electrical Hook Up                                   |                  | 1,927.17         |       |           |        |            | •        |
| Magazine Fencing                                     |                  | 899.35           |       | ļ         |        |            | -        |
| Magazine Mobilization                                |                  | 770.87           |       |           |        |            | •        |
| Donor Explosives                                     |                  | 1,541.74         |       |           |        |            | -        |
| Site Remediation - Pine Farm                         |                  | 300,00           |       |           |        |            |          |
|  | her Direct Costs |                  |       |           |        |            | 4,358.   |
| OUDIVIAL - CI  | 100 DEAN AND     |                  |       |           |        |            |          |
|  |                  |                  |       |           |        |            |          |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas
Iteerance of Compost Areas R & Landfill 2

Task 3 Site Management

| Clearance of Compost Area - B  | Clearance of Compost Area - B & Landfill 2 Site Management |                          |                      |                 |                  |                    | nt                |
|--|--|--------------------------|----------------------|-----------------|------------------|--------------------|-------------------|
| Labor Category   |  | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount            |
| Program Management I   |  | 82.06                    |                      |                 |                  | -                  |                   |
| Project Manager III  |  | 76.92                    | 42.00                | 5.00            | 1.00             | 210.00             | 16,153.20         |
| Project Manager II   | <u> </u>   | 66,67                    |                      |                 |                  | •                  | -                 |
| Certified Industrial Hygienist   |  | 74.81                    |                      |                 |                  | -                  | -                 |
| Engineer II  |  | 76.92                    |                      |                 |                  | -                  | •                 |
| Survey Manager   |  | 58.42                    |                      |                 |                  | -                  | -                 |
| Surveyor V   |  | 46,16                    |                      |                 |                  |                    | -                 |
| Out of the second of the secon |  | 1 1100                   |                      |                 |                  |                    |                   |
| Quality Control Specialist   | Regular  | 47.04                    |                      |                 |                  | •                  | -                 |
| Site Safety Officer  | Regular  | 47.04                    | 40.00                | 5,00            | 1.00             | 200.00             | 9,408.00          |
| UXO Supervisor/Tech VI   | Regular  | 53.29                    | 40.00                | 5.00            | 1.00             | 200.00             | 10,658.00         |
| UXO Supervisor/Tech V  | Regular  | 47.04                    |                      |                 |                  | -                  | •                 |
| UXO Technician IV  | Regular  | 40.49                    |                      |                 |                  | -                  | •                 |
| UXO Technician III   | Regular  | 34.10                    |                      |                 |                  | -                  | •                 |
| Laborer II   | Regular  | 28.65                    |                      |                 |                  |                    | -                 |
| 11.1 2 / 320 2   | and the state  | 11.00 mm.<br>10.00 mm.   |                      |                 |                  | •                  | -                 |
| Sub  | total - Labor  | : 11<br>: (176):         |                      |                 |                  | 610.00             | 36,219.20         |
| the second second  |  |                          |                      |                 |                  |                    |                   |
| (1) A (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)  | 11 Tab   |                          |                      | - North         | M                |                    | 1 K 274 (280,056) |
|  |  | Loaded                   |                      | Number          | Number           |                    | Amount            |
| Other Direct Costs   |  | Rate                     |                      | Weeks           | Units            | 1.                 | Amount            |
| FM Radio, Handheld w/ charger  |  | 25.69                    |                      |                 | 4.00             |                    | 900.40            |
| FM Radio Repeater/Base Station   |  | 44.97                    |                      | 5.00            | 4.00             |                    | 899.40            |
| Cellutar Telephone and Service   | 100  | 64.24                    |                      | 5.00            | 1.00             |                    | 321.20            |
| Video Camera   | Au Berg  | 32.12                    |                      | 5.00            | 1.00             |                    | 160.60            |
| Computer   |  | 96.36                    |                      | 5.00            | 1.00             |                    | 481.80            |
| Brushcutter, power   | \$4.00 m   | 96.36                    |                      |                 |                  |                    | -                 |
| Chainsaw   |  | 64.24                    |                      |                 |                  |                    | -                 |
| EOD Demolition Kit   |  | 51.39                    |                      |                 |                  |                    | •                 |
| Foester Ferrex Ordnance Locator  |  | 385.43                   |                      |                 |                  |                    | •                 |
| Schonsted Magnetic Locator   |  | 51.39                    |                      |                 |                  |                    | 440.700           |
| Explosive Storage magazine   |  | 44.97                    |                      | 5.00            | 200              |                    | 449.70            |
| Carrier Phase GPS  |  | 899.35                   |                      |                 |                  |                    | -                 |
| Surveyor's Kit   |  | 64.24                    |                      |                 |                  |                    | -                 |
| Total Station Survey Equipment   |  | 835.11                   |                      |                 |                  | 4.4                | -                 |
| Ford Explorer  |  | 321.20                   |                      |                 |                  |                    | -                 |
| Pickup, 4x4, 3/4 Ton   |  | 449.67                   |                      |                 |                  |                    | 0.004.00          |
| Air Fare - Round Trip  |  | 1,220.54                 |                      | 1.00            | 3.00             |                    | 3,661.62          |
| Mileage  | 55.  | 0.40                     |                      | 5,000.00        | 1.00             |                    | 2,000.00          |
| Fuel   |  | 1.74                     |                      | 185.00          | 1.00             |                    | 321,90            |
| Lodging  |  | 68.09                    |                      | 70.00           | 2.00             |                    | 9,532.60          |
| Meals and incidentals  |  | 38,55                    |                      | 70.00           | 200              |                    | 5,397.00          |
| Project Consumables  | 1. 1. No.  | 192.72                   |                      | 5.00            | 1.00             |                    | 963.60            |
| Printing and Binding   |  | 205.58                   |                      | 5.00            | 1.00             |                    | 1,027.80          |
| Shipping   |  | 154.17                   |                      | 2.00            | 3.00             | 15                 | 925.02            |
| Site Trailer   |  | 963.59                   |                      | 5.00            | 1.00             |                    | 4,817.95          |
| Electrical Hook Up   |  | 1,927.17                 |                      |                 | 1.00             |                    | -                 |
| Magazine Fencing   |  | 899.35                   |                      | 1.00            | 1.00             |                    | 899.35            |
| Magazine Mobilization  |  | 770.87                   |                      | 1.00            | 1.00             |                    | 770.87            |
| Donor Explosives   |  | 1,541.74                 |                      |                 |                  |                    | -                 |
| Site Remediation - Pine Farm   |  | 300.00                   |                      |                 |                  |                    |                   |
| Subtotal - Other   | Direct Costs   |                          |                      |                 |                  |                    | 32,630.41         |
|  |  |                          |                      |                 |                  |                    | 60 840 64         |
| Total Estir  | mated Costs  |                          |                      |                 |                  |                    | 68,849.61         |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas
Clearance of Compost Area - B & Landfill 2

Task 4 Land Survey

| Clearance of Compost Area - B & Lan   | idhii 2 | Landad           | Harra |        |        | Laing Survey |           |  |
|---------------------------------------|---------|------------------|-------|--------|--------|--------------|-----------|--|
|                                       |         | Loaded<br>Hourty | Hours | Number | Number | Estimated    |           |  |
| Labor Category                        |         | Rate             | Week  | Weeks  | People | Hours _      | Amount    |  |
| Program Management I                  |         | 82.06            |       |        |        | •            | -         |  |
| Project Manager III                   |         | 76.92            |       |        |        | •            |           |  |
| Project Manager II                    |         | 66.67            |       |        |        | •            |           |  |
| Certified Industrial Hygienist        |         | 74.81            |       |        |        | •            | -         |  |
| Engineer II                           |         | 76.92            |       |        |        | -            | -         |  |
| Survey Manager                        |         | 56.42            | 42.00 | 1,75   | 1.00   | 73.50        | 4,146.87  |  |
| Surveyor V                            |         | 46.16            | 42.00 | 1.75   | 1.00   | 73.50        | 3,392.76  |  |
| e alla e                              | •       |                  |       |        |        |              | 1. 11     |  |
| Quality Control Specialist            | Regular | 47.04            |       |        |        | •            | •         |  |
| Site Safety Officer                   | Regular | 47.04            |       |        |        | -            | •         |  |
| UXO Supervisor/Tech VI                | Regular | 53.29            |       |        |        | -            | •         |  |
| UXO Supervisor/Tech V                 | Regular | 47.04            |       |        |        | -            | -         |  |
| UXO Technician IV                     | Regular | 40.49            |       |        |        | -            | -         |  |
| UXO Technician III                    | Regular | 34.10            | 40.00 | 1.75   | 1.00   | 70.00        | 2,387.00  |  |
| Leiborer II                           | Regular | 28.65            |       |        |        | -            | •         |  |
| Subtotal - L                          | ebor    |                  |       |        |        | 217.00       | 9,926.63  |  |
| GUIJIH - (                            | abor    |                  |       |        |        | 217.00       | 9,920.03  |  |
|                                       |         |                  |       |        |        |              |           |  |
|                                       |         | Loaded           |       | Number | Number |              |           |  |
| Other Direct Costs                    |         | Rate             |       | Weeks  | Units  |              | Amount    |  |
| FM Radio, Handheld w/ charger         |         | 25.69            |       | 1,75   | 2.00   |              | 89.92     |  |
| FM Radio Repeater/Base Station        |         | 44.97            |       |        |        |              |           |  |
| Cellular Telephone and Service        |         | 64.24            |       |        |        |              |           |  |
| Video Camera                          |         | 32.12            |       |        |        |              | •         |  |
| Computer                              |         | 96.36            |       | 1.75   | 1.00   |              | 168.63    |  |
| Brushcutter, power                    |         | 96.36            |       |        |        |              | -         |  |
| Chainsaw                              |         | 64.24            |       |        |        |              | -         |  |
| EOD Demokion Kil                      |         | 51.39            |       |        |        |              | -         |  |
| Foester Ferrex Ordnance Locator       |         | 385,43           |       |        |        |              | •         |  |
| Schonstedt Magnetic Locator           |         | 51.39            |       | 1.75   | 1.00   |              | 89.93     |  |
| Explosive Storage magazine            |         | 44,97            |       | 4.55   |        |              |           |  |
| Carrier Phase GPS                     |         | 899.35           |       | 1.25   | 2.00   |              | 2,248.38  |  |
| Surveyor's Kit                        |         | 64.24            |       | 1.75   | 1.00   |              | 112.42    |  |
| Total Station Survey Equipment        |         | 835.11<br>321.20 |       | 2.00   | 1.00   |              | 1,670.22  |  |
| Ford Explorer<br>Pickup, 4x4, 3/4 Ton |         | 321.20<br>449.67 |       | 2.00   | 1.00   |              | 642.40    |  |
| Air Fare - Round Trip                 |         | 1,220.54         |       | 1.00   | 200    |              | 2,441.08  |  |
| Mileage                               |         | 0.40             |       | 150.00 | 200    |              | 120.00    |  |
| Fuel                                  |         | 1.74             |       | 85.00  | 1.00   |              | 147.90    |  |
| Lodaina                               |         | 68.09            |       | 14.00  | 2.00   |              | 1,906.52  |  |
| Meals and incidentals                 |         | 38.55            |       | 16.00  | 200    |              | 1,233.60  |  |
| Project Consumables                   |         | 192.72           |       | 1.75   | 1.00   |              | 337.26    |  |
| Printing and Binding                  |         | 205.56           |       | 1.00   | 1.00   |              | 205.56    |  |
| Shipping                              |         | 154.17           |       | 1,00   | 1.00   | •            | 154.17    |  |
| Site Trailer                          |         | 963.59           |       |        |        |              | -         |  |
| Electrical Hook Up                    |         | 1,927.17         |       |        |        |              | •         |  |
| Magazine Fencing                      |         | 899.35           |       |        |        |              | -         |  |
| Magazine Mobilization                 |         | 770.87           |       |        |        |              | •         |  |
| Donor Explosives                      |         | 1,541,74         |       |        |        |              | •         |  |
| Site Remediation - Pine Farm          |         | 300.00           |       |        |        |              |           |  |
| Subtotal - Other Direct C             |         |                  |       |        |        |              | 11,567.99 |  |
| Total Estimated C                     | Costs   |                  |       |        |        |              | 21,494.62 |  |

Corps of Engineers
Comp Croft, Spertenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas
Clearance of Compost Area - B & Landfill 2

Task 5 **Brush Clearance** 

| Clearance of Composi Area - B & La   | rkum Z       | Loaded   | Hours |        | Dies   | III Citation in the |          |
|--|--------------|----------|-------|--------|--------|---------------------|----------|
|  |              | Hourly   | per   | Number | Number | Estimated           |          |
| Labor Category   |              | Rate     | Week  | Weeks  | People | Hours               | Amount   |
| Program Management I   |              | 82.06    |       |        |        | •                   |          |
| Project Manager III  |              | 76.92    |       |        |        | -                   | -        |
| Project Manager II   |              | 66.67    |       |        |        | -                   | •        |
| Certified Industrial Hygienist   |              | 74.81    |       |        |        | -                   | •        |
| Engineer II  |              | 76.92    |       |        |        | •                   | •        |
| Survey Manager   |              | 56.42    |       |        |        | -                   |          |
| Surveyor V   |              | 46.16    |       |        |        | -                   | ٠        |
|  |              |          |       |        |        |                     |          |
| Quality Control Specialist   | Regular      | 47.04    |       |        | •      | •                   | -        |
| Site Safety Officer  | Regular      | 47.04    |       |        |        | •                   |          |
| JXO Supervisor/Tech VI   | Regular      | 53.29    |       |        |        | •                   | -        |
| JXO Supervisor/Tech V  | Regular      | 47.04    |       |        |        | •                   | -        |
| JXO Technician IV  | Regular      | 40.49    | 40.00 | 275    | 2.00   | 220.00              | 8,907.8  |
| JXO Technician III   | Regular      | 34.10    |       |        |        | -                   | -        |
| aborer II  | Regular      | 28.65    | 40.00 | 2.75   | 6.00   | 660.00              | 18,909.0 |
| to the second of | egiller et i |          |       |        |        | -                   |          |
| Subtotal -   |              |          |       |        |        | 880.00              | 27,816.6 |
|  |              |          |       |        |        |                     |          |
| 1961年校 1960年   | 1            |          |       |        | 1,000  |                     |          |
|  |              | Loaded   |       | Number | Number |                     |          |
| Other Direct Costs   |              | Rale     |       | Weeks  | Units  |                     | Amount   |
| M Radio, Handheld w/ charger   |              | 25.69    |       | 2.75   | 2.00   |                     | 141.3    |
| M Radio Repeater/Base Station  |              | 44.97    |       |        |        |                     | -        |
| Cellular Telephone and Service   |              | 64.24    |       |        |        |                     | -        |
| /ideo Camera   |              | 32.12    |       |        |        |                     | -        |
| Computer   |              | 96.36    |       |        |        |                     | -        |
| Brushoutter, power   |              | 96.36    |       | 2.75   | 4.00   |                     | 1,059.9  |
| Chainsaw   |              | 64.24    |       | 2.75   | 2.00   |                     | 353.3    |
| EOD Demolition Kit   |              | 51,39    |       |        |        |                     | -        |
| Foester Ferrex Ordnance Locator  |              | 385,43   |       |        |        |                     | -        |
| Schonstedt Magnetic Locator  |              | 51.39    |       | 275    | 2.00   |                     | 282.6    |
| Explosive Storage magazine   |              | 44,97    |       |        |        |                     | -        |
| Carrier Phase GPS  |              | 899.35   |       |        |        |                     | -        |
| Surveyor's Kit   |              | 64.24    |       |        |        |                     | -        |
| otal Station Survey Equipment  |              | 835.11   |       |        |        |                     | -        |
| ord Explorer   |              | 321.20   |       |        |        |                     | -        |
| Pickup, 4x4, 3/4 Ton   |              | 449.67   |       | 2.75   | 2.00   |                     | 2,473.1  |
| Vr Fare - Round Trip   |              | 1,220.54 |       |        |        |                     | -        |
| Aileage  | Dog State    | 0.40     |       | 200.00 | 2.00   |                     | 160.0    |
| uel  |              | 1.74     |       | 85.00  | 2.00   |                     | 295.8    |
| odging   |              | 68.09    |       | 18.00  | 8.00   |                     | 9,804.9  |
| leals and Incidentals  |              | 38.55    |       | 20.00  | 8.00   |                     | 6,168.0  |
| Project Consumables  |              | 192.72   |       | 1.00   | 1.00   |                     | 192.7    |
| rinting and Binding  |              | 205.56   |       |        |        |                     | -        |
| Shipping   |              | 154.17   |       |        |        | 5                   | •        |
| iite Trailer   |              | 963.59   |       |        |        |                     | -        |
| Electrical Hook Up   |              | 1,927.17 |       |        |        | 5.5                 | •        |
| lagazine Fencing   |              | 899.35   |       |        |        | :                   | •        |
| Aagazine Mobilization  |              | 770.87   |       |        |        |                     | -        |
| Onor Explosives  |              | 1,541.74 |       |        |        |                     | -        |
| itle Remediation - Pine Farm   |              | 300.00   |       |        |        |                     |          |
| Subtotal - Other Direct  | Costs        |          |       |        |        |                     | 20,931.9 |
|  | 00313        |          |       |        |        | <u> </u>            |          |
| Total Estimated  |              |          |       |        |        |                     | 48,748.7 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas
arence of Compost Area - B & Landfill 2

Task 6 Subsurface OE Removal

| Clearance of Compost Area - B & Landfil       | 12           | Subsurface OE Removal |       |        |        |           |           |  |
|---|--------------|-----------------------|-------|--------|--------|-----------|-----------|--|
| ,   |              | Loaded                | Hours |        |        |           |           |  |
|   |              | Hourly                | bet   | Number | Number | Estimated |           |  |
| Labor Category                                |              | Rate                  | Week  | Weeks  | People | Hours     | Amount    |  |
| Program Management I                          |              | 82.06                 |       |        |        | -         | -         |  |
| Project Manager III                           |              | 76.92                 |       |        |        | -         | -         |  |
| Project Manager II                            |              | 66.67                 |       |        |        | -         | -         |  |
| Certified Industrial Hygienist                |              | 74.81                 |       |        |        | -         | -         |  |
| Engineer II                                   |              | 76.92                 |       |        |        | -         | -         |  |
| Survey Manager                                |              | 56.42                 |       |        |        | •         | •         |  |
| Surveyor V                                    |              | 46.16                 |       |        |        | •         |           |  |
| ¥.  |              |                       |       |        |        |           |           |  |
| Quality Control Specialist                    | Regular      | 47.04                 |       |        |        | •         | -         |  |
| Site Safety Officer                           | Regular      | 47.04                 |       |        |        | -         | -         |  |
| UXO Supervisor/Tech VI                        | Regular      | 53.29                 |       |        |        | •         | -         |  |
| UXO Supervisor/Tech V                         | Regular      | 47.04                 | 40.00 | 4.00   | 1.00   | 160.00    | 7,526.40  |  |
| UXO Technician IV                             | Regular      | 40.49                 | 40.00 | 4.00   | 4.00   | 640.00    | 25,913.60 |  |
| UXO Technician III                            | Regular      | 34.10                 |       |        |        | -         | •         |  |
| Laborer II                                    | Regular      | 28.65                 |       |        |        | •         | _         |  |
|   | ,            |                       |       |        | ×      |           |           |  |
| Subtotal - Lat                                | oor          |                       |       |        |        | 800.00    | 33,440.00 |  |
| - Controll - Con                              |              |                       |       |        |        |           | 11        |  |
|   |              |                       |       |        |        |           | 7,474     |  |
|   |              | Loaded                |       | Number | Number |           |           |  |
| Other Direct Costs                            |              | Rate                  |       | Weeks  | Units  |           | Amount    |  |
| FM Radio, Handheld w/ charger                 |              | 25.69                 |       | 4.00   | 2.00   |           | 205.52    |  |
| FM Radio Repeater/Base Station                |              | 44.97                 |       |        |        |           | •         |  |
| Cellular Telephone and Service                |              | 64.24                 |       |        |        |           | -         |  |
| Video Camera                                  |              | 32.12                 |       |        |        |           |           |  |
| Computer                                      |              | 96.36                 |       |        |        |           |           |  |
| Brushculter, power                            |              | 96.36                 |       |        |        |           |           |  |
| Chainsaw                                      |              | 64.24                 |       |        |        |           |           |  |
| EOD Demolition Kit                            |              | 51.39                 |       | 4.00   | 1.00   |           | 205.56    |  |
| Foester Ferrex Ordnance Locator               |              | 385.43                |       | 1.00   | 1.04   |           |           |  |
| Schonsted Magnetic Locator                    |              | 51.39                 |       | 4.00   | 8.00   |           | 1,644,48  |  |
| Explosive Storage magazine                    |              | 44.97                 |       | 7.00   | 0.00   |           | .,        |  |
| Carrier Phase GPS                             |              | 899.35                |       |        |        | 1.00      |           |  |
|   |              | 64.24                 |       |        |        | •         |           |  |
| Surveyor's Kit Total Station Survey Equipment |              | 835.11                |       |        |        |           |           |  |
|   |              | 321,20                |       |        |        |           | -         |  |
| Ford Explorer                                 |              | 449.67                |       |        |        |           | _         |  |
| Pickup, 4x4, 3/4 Ton<br>Air Fare - Round Trip | 1.02         | 1,220.54              |       |        |        | :         | _         |  |
|   | 11 1/2       | 0.40                  |       |        |        |           | _         |  |
| Mileage<br>Fuel                               |              | 1.74                  |       |        |        |           | _         |  |
|   |              | 68.09                 |       | 29.00  | 5.00   |           | 9.873.05  |  |
| Lodging<br>Meals and Incidentals              |              | 38.55                 |       | 30.00  | 5.00   |           | 5,782,50  |  |
| Project Consumables                           |              | 192.72                |       | 30.00  | V.W    |           | -         |  |
| Printing and Binding                          |              | 205.56                |       |        |        |           |           |  |
| Shipping                                      |              | 154.17                |       |        |        |           |           |  |
| Site Trailer                                  |              | 963,59                |       |        |        |           | -         |  |
| Electrical Hock Up                            |              | 1,927.17              |       |        |        |           | -         |  |
| Magazine Fencing                              |              | 899.35                |       |        |        |           | -         |  |
| Magazine renorg Magazine Mobilization         |              | 770.87                |       |        |        |           | -         |  |
| Donor Explosives                              |              | 1,541.74              |       | 1.00   | 0.20   |           | 308.35    |  |
| Site Remediation - Pine Farm                  |              | 300.00                |       | 1.00   | V.20   |           |           |  |
| Sublotal - Other Direct Co                    | ete          | 300.00                |       |        |        |           | 18,019.46 |  |
| SADIOIRI - Olliet Dillet CO                   | <b>3</b> (3) |                       |       |        |        |           | 10,010,70 |  |
|   |              |                       |       |        |        |           | ·         |  |

Camp Croft, Spertenburg, S.C. Engineering Design Cost Estimate Landfill and Compost A Areas Clearance of Compost Area - B & Landfill 2

Task 7 Scrap Turn-In

| Clearance of Compost Area - B & Land | NII 2            |                |             |                 | 200 and 1        | UITHII    |          |
|--------------------------------------|------------------|----------------|-------------|-----------------|------------------|-----------|----------|
|                                      |                  | Loaded         | Hours       | Marke           | Marshar          | Estimated |          |
| Labor Calegory                       |                  | Hourly<br>Rate | per<br>Week | Number<br>Weeks | Number<br>People | Honts     | Amount   |
| Labor Category                       | _                | 82.06          | HOOK        | HECKS           | ( gopte          | INCOLU    | rinount  |
| Program Management I                 |                  | 76,92          |             |                 |                  | _         |          |
| Project Manager III                  |                  | 66.67          |             |                 |                  | _         | _        |
| Project Manager II                   |                  | 74.81          |             |                 |                  | _         | -        |
| Certified Industrial Hygienist       | *:               | 76.92          |             |                 |                  | _         | _        |
| Engineer II                          |                  | 76.82<br>56.42 |             |                 |                  | -         |          |
| Survey Manager                       | 13 F. A.<br>27 F | 46.16          |             |                 |                  | _         |          |
| Surveyor V                           |                  | 40.10          |             |                 |                  |           |          |
| Quality Control Specialist           | Regular          | 47.04          |             |                 |                  | -         | -        |
| Site Safety Officer                  | Regular          | 47.04          |             |                 |                  |           |          |
| UXO Supervisor/Tech VI               | Regular          | 53.29          | 40.00       | 0.50            | 1.00             | 20.00     | 1,065.6  |
| UXO Supervisor/Tech V                | Regular          | 47.04          |             |                 |                  | •         | _        |
| JXO Technician IV                    | Regular          | 40.49          | 40.00       | 0.50            | 1.00             | 20.00     | 809.8    |
| JXO Technician III                   | Regular          | 34.10          |             |                 |                  | -         |          |
| aborer II                            | Regular          | 28.65          |             |                 |                  | •         |          |
|                                      |                  |                |             |                 |                  | -         | <u> </u> |
| Subtotal - La                        | abor             |                |             |                 |                  | 40.00     | 1,875.6  |
|                                      |                  |                |             |                 |                  |           |          |
|                                      |                  | Loaded         |             | Number          | Number           |           |          |
| Other Direct Costs                   |                  | Rate           |             | Weeks           | Units            | _         | Amount   |
| M Radio, Handheld w/ charger         |                  | 25.69          |             |                 |                  |           |          |
| M Radio Repeater/Base Station        |                  | 44.97          |             |                 |                  |           |          |
| Cellutar Telephone and Service       | ·                | 64.24          |             |                 |                  |           |          |
| /ideo Carnera                        |                  | 32.12          |             |                 |                  |           | -        |
| Computer                             |                  | 96.36          |             |                 |                  |           | -        |
| Brushoutter, power                   |                  | 96.36          |             |                 |                  |           | -        |
| Chainsew                             |                  | 64.24          |             |                 |                  |           |          |
| EOD Demolition Kit                   |                  | 51.39          |             |                 |                  |           | •        |
| Foester Ferrex Ordnance Locator      |                  | 385.43         |             |                 |                  |           | •        |
| Schonstedt Magnetic Locator          |                  | 51.39          |             |                 |                  |           | -        |
| Explosive Storage magazine           |                  | 44.97          |             |                 |                  |           |          |
| Carrier Phase GPS                    |                  | 899.35         |             |                 |                  |           |          |
| Surveyor's Kit                       | :                | 64.24          |             |                 |                  |           |          |
| Cotal Station Survey Equipment       |                  | 835,11         |             |                 |                  |           | •        |
| Ford Explorer                        |                  | 321.20         |             |                 |                  |           | -        |
| Pickup, 4x4, 3/4 Ton                 |                  | 449.67         |             | 1.00            | 0.25             |           | 112.4    |
| Air Fare - Round Trip                |                  | 1,220.54       |             |                 |                  |           | -        |
| viileage                             |                  | 0.40           |             |                 |                  |           | -        |
| -<br>Fuel                            |                  | 1.74           |             | 32.00           | 1.00             |           | 55.6     |
| .odging                              |                  | 68.09          |             | 1.50            | 2.00             |           | 204.2    |
| Meals and Incidentals                |                  | 38.55          |             | 1.50            | 2.00             |           | 115.6    |
| Project Consumables                  |                  | 192.72         |             | 1.00            | 1.00             |           | 192.7    |
| Printing and Binding                 |                  | 205.56         |             |                 |                  |           | •        |
| Shipping                             |                  | 154.17         |             |                 |                  |           | -        |
| Sike Trailer                         |                  | 963.59         |             |                 | 1                |           | -        |
| Electrical Hook Up                   |                  | 1,927,17       |             |                 |                  |           | •        |
| Magazine Fencing                     |                  | 899.35         |             |                 |                  |           | •        |
| Magazine Mobilization                |                  | 770.87         |             |                 |                  |           | -        |
| Donor Explosives                     |                  | 1,541.74       |             |                 |                  |           | -        |
| Site Remediation - Pine Farm         |                  | 300,00         |             |                 | j                |           | •        |
| Subtotal - Other Direct C            | osts             |                |             |                 |                  |           | 680.7    |
|                                      |                  |                |             |                 |                  |           |          |
| Total Estimated C                    | nele             |                |             |                 |                  |           | 2,556.3  |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfilt and Compost A Areas
Clearance of Compost Area - B & Landfilt 2

Task 8 **Quality Control** 

| Clearance of Compost Area - B & Landiil | 2        |                  |              |        | Quality Ci | DI IOO                   |           |
|---|----------|------------------|--------------|--------|------------|--------------------------|-----------|
|   |          | Loaded<br>Hourly | Hours<br>per | Number | Number     | Estimated                |           |
| Labor Category                          |          | Rate             | Week         | Weeks  | People     | Hours                    | Amount    |
| Program Management I                    |          | 82.06            |              |        |            | -                        | -         |
| Project Manager III                     |          | 76.92            |              |        |            | -                        | -         |
| Project Manager II                      |          | 66.67            |              |        |            | -                        | -         |
| Certified Industrial Hygienist          |          | 74.81            |              |        |            | -                        | -         |
| Engineer II                             |          | 76.92            |              |        |            |                          | -         |
| Survey Manager                          |          | 56.42            |              |        |            | •                        | -         |
| Surveyor V                              | :        | 46.16            |              |        |            | -                        | -         |
| Outre for the                           |          |                  |              |        |            |                          |           |
| Quality Control Specialist              | Regular  | 47.04            | 40.00        | 3.00   | 1.00       | 120.00                   | 5,644.80  |
| Site Safety Officer                     | Regular  | 47,04            |              |        |            | -                        |           |
| UXO Supervisor/Tech VI                  | Regular  | 53.29            |              |        |            | -                        | -         |
| UXO Supervisor/Tech V                   | Regular  | 47.04            |              |        |            | -                        | -         |
| UXO Technician IV                       | Regular  | 40.49            |              |        |            | •                        | -         |
| UXO Technician III                      | Regular  | 34.10            | 40.00        | 3.00   | 1.00       | 120.00                   | 4,092.00  |
| Laborer II                              | Regular  | 28.65            | 10.00        | 4.22   |            | -                        | •         |
| Laborer II                              | / togues |                  |              |        |            | -                        | -         |
| Subtotal - Lab                          | or.      |                  |              |        |            | 240.00                   | 9,736.80  |
|   |          |                  |              |        |            | 100 mg/mg/<br>100 mg/mg/ |           |
|   |          |                  |              |        |            | 78.75<br>                | Secure.   |
|   |          | Loaded           |              | Number | Number     |                          |           |
| Other Direct Costs                      |          | Rate             |              | Weeks  | Units      |                          | Amount    |
| FM Radio, Handheld w/ charger           |          | 25.69            |              | 3.00   | 1.00       | A. 4                     | 77.07     |
| FM Radio Repeater/Base Station          |          | 44.97            |              |        |            |                          | •         |
| Cellular Telephone and Service          |          | 64.24            |              |        |            | 100                      | •         |
| Video Camera                            |          | 32.12            |              |        |            |                          | -         |
| Computer                                |          | 96.36            |              |        |            |                          | •         |
| Brushoutter, power                      |          | 96.36            |              |        |            |                          | -         |
| Chainsaw                                | ·        | 64.24            |              |        |            |                          | -         |
| EOD Demolition Kit                      | :        | 51.39            |              |        |            |                          | -         |
| Foester Ferrex Ordnance Locator         |          | 385.43           |              |        |            |                          | •         |
| Schonstedt Magnetic Locator             |          | 51.39            |              | 3.00   | 2.00       |                          | 308.34    |
| Explosive Storage magazine              |          | 44.97            |              |        |            |                          | -         |
| Carrier Phase GPS                       |          | 899.35           |              |        |            |                          | -         |
| Surveyor's Kit                          |          | 64.24            |              |        |            |                          | -         |
| Total Station Survey Equipment          |          | 835.11           |              |        |            |                          | -         |
| Ford Explorer                           |          | 321.20           |              | 3.00   | 1.00       |                          | 963,60    |
| Pickup, 4x4, 3/4 Ton                    |          | 449.67           |              |        |            |                          | •         |
| Air Fare - Round Trip                   |          | 1,220.54         |              | 1.00   | 2.00       |                          | 2,441.08  |
| Mileage                                 |          | 0.40             |              | 150.00 | 2.00       |                          | 120.00    |
| Fuel                                    |          | 1.74             |              | 85.00  | 2.00       | - N<br>11                | 295.80    |
| Lodging                                 |          | 68.09            |              | 21.00  | 2.00       |                          | 2,859.78  |
| Meals and Incidentals                   |          | 38.55            |              | 23.00  | 2.00       |                          | 1,773.30  |
| Project Consumables                     |          | 192.72           |              | 1.00   | 1.00       |                          | 192.72    |
| Printing and Binding                    |          | 205.56           |              |        |            |                          | -         |
| Shipping                                |          | 154.17           |              |        |            |                          | •         |
| Site Trailer                            |          | 963.59           |              |        |            |                          | -         |
| Electrical Hook Up                      |          | 1,927.17         |              |        |            | . 90.1                   | •         |
| Magazine Fencing                        |          | 899.35           |              |        |            |                          | •         |
| Magazine Mobilization                   |          | 770.87           |              |        |            |                          | -         |
| Donor Explosives                        |          | 1,541.74         |              |        |            |                          | -         |
| Site Remediation - Pine Farm            |          | 300.00           |              |        |            |                          |           |
| Subtotal - Other Direct Co.             | sts      |                  |              |        |            |                          | 9,031.69  |
|   |          |                  |              |        |            |                          |           |
|   |          |                  |              |        |            |                          | 18,768.49 |

Comps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Landfill and Compost A Areas

Task 9 Final Report

| Clearance of Compost Area - B & Landfil 2 |          |                          |                      |                 | Final R                                 | eport              |                |
|---|----------|--------------------------|----------------------|-----------------|---|--------------------|----------------|
|   |          | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People                        | Estimated<br>Hours | Amount         |
| Labor Category                            |          | 82.06                    | 42.00                | 0.25            | 1.00                                    | 10.50              | 861.63         |
| Program Management I                      |          | 76.92                    | 72.00                | 0.00            |   | •                  | •              |
| Project Menager III                       |          | 66.67                    | 42.00                | 2.50            | 1.00                                    | 105.00             | 7,000.35       |
| Project Manager II                        |          | 74.81                    | 72.00                |                 |   | •                  | · -            |
| Certified Industrial Hygienist            |          | 76.92                    | 42.00                | 1.00            | 1.00                                    | 42.00              | 3,230.64       |
| Engineer II                               |          | 56.42                    | 42.00                | 1.25            | 1.00                                    | 52.50              | 2,962.05       |
| Survey Manager                            |          | 46.16                    |                      | ,,              |   | -                  | · <del>-</del> |
| Surveyor V                                |          |                          |                      |                 |   |                    |                |
| Quality Control Specialist                | Regular  | 47.04                    |                      |                 | • | •                  | -              |
| Site Safety Officer                       | Regular  | 47.04                    |                      |                 |   | -                  | -              |
| UXO Supervisor/Tech VI                    | Regular  | 53,29                    |                      |                 |   | •                  | -              |
| UXO Supervisor/Tech V                     | Regular  | 47.04                    |                      |                 |   | -                  | •              |
| UXO Technician IV                         | Regular  | 40.49                    |                      |                 |   | -                  | •              |
| UXO Technician III                        | Regular  | 34.10                    |                      |                 |   | -                  | -              |
| Laborer II                                | Regular  | 28.65                    |                      |                 |   | -                  | -              |
| Second in                                 |          |                          |                      |                 |   | _                  | -              |
| Subtotal                                  |          |                          |                      |                 |   | 210.00             | 14,054.67      |
|   |          |                          |                      |                 |   |                    |                |
|   |          |                          |                      |                 |   |                    |                |
|   |          | Loaded                   |                      | Number          | Number                                  |                    |                |
| Other Direct Costs                        |          | Rate                     |                      | Weeks           | Units                                   |                    | Amount         |
| FM Radio, Handheld w/ charger             |          | 25.69                    |                      |                 |   |                    | •              |
| FM Radio Repeater/Base Station            |          | 44.97                    |                      |                 |   |                    | -              |
| Cellular Telephone and Service            |          | 64.24                    |                      |                 |   |                    | -              |
| Video Carnera                             |          | 32.12                    |                      |                 |   |                    | -              |
| Computer                                  |          | 96.36                    |                      |                 |   |                    | •              |
| Brushoutler, power                        |          | 96.36                    |                      |                 |   |                    | •              |
| Chainsaw                                  |          | 64.24                    |                      |                 |   |                    | -              |
| EOD Demolition Kit                        |          | 51.39                    |                      |                 |   |                    | -              |
| Foester Ferrex Ordinance Locator          |          | 385,43                   |                      |                 |   |                    | -              |
| Schonstedt Magnetic Locator               |          | 51.39                    |                      |                 |   |                    | -              |
| Explosive Storage magazine                |          | 44.97                    |                      |                 |   |                    | -              |
| Carrier Phase GPS                         |          | 899.35                   |                      |                 |   |                    | -              |
| Surveyor's Kil                            |          | 84.24                    |                      |                 |   |                    |                |
| Total Station Survey Equipment            |          | 835.11                   |                      |                 |   |                    | -              |
| Ford Explorer                             |          | 321.20                   |                      |                 |   |                    | -              |
| Pickup, 4x4, 3/4 Ton                      |          | 449.67                   |                      |                 |   |                    | -              |
| Air Fare - Round Trip                     |          | 1,220.54                 |                      |                 |   |                    | -              |
| Mileage                                   |          | 0.40                     |                      |                 |   |                    | -              |
| Fuel                                      |          | 1.74                     |                      |                 |   |                    | •              |
| Lodging                                   |          | 66.09                    |                      |                 |   |                    | -              |
| Meals and Incidentals                     |          | 38.55                    |                      |                 |   |                    | -              |
| Project Consumables                       | *:       | 192.72                   |                      |                 |   |                    | -              |
| Printing and Binding                      | 100      | 205.56                   |                      | 1.00            | 2.00                                    |                    | 411.12         |
| Shipping                                  |          | 154.17                   |                      |                 |   |                    | -              |
| Site Trailer                              |          | 963.59                   |                      |                 |   |                    | -              |
| Electrical Hook Up                        |          | 1,927.17                 |                      |                 |   |                    |                |
| Magazine Fencing                          |          | 899,35                   |                      |                 |   |                    | -              |
| Magazine Mobilization                     | :        | 770.87                   |                      |                 |   |                    | -              |
| Donor Explosives                          |          | 1,541.74                 |                      | ŀ               |   |                    | -              |
| Site Remediation - Pine Farm              |          | 300.00                   |                      |                 |   |                    | <u>.</u>       |
| Subtotal - Other Dire                     | ct Costs |                          |                      |                 |   |                    | 411.12         |
|   |          |                          |                      |                 |   |                    |                |
|   |          |                          |                      |                 |   |                    |                |

**Total Estimated Costs** 

14,465.79

Corps of Engineers
Camp Croft, Sperienburg, S.C.
Engineering Design Cost Estimate
Landfill and Cost A Areas

Task 10 Site Restoration

| Clearance of Compost Area - B & Landfill 2                                |          | Site Restoration         |                      |                 |                  |                    |        |  |
|---|----------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|--|
|   |          | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Weck | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |  |
| Labor Category  | - 49     | 82.06                    |                      |                 |                  |                    |        |  |
| rogram Management I   |          | 76.92                    |                      |                 |                  |                    |        |  |
| roject Manager III  |          | 66.67                    |                      |                 |                  | _                  | _      |  |
| roject Manager II   |          | 74.81                    |                      |                 |                  | _                  |        |  |
| Certified Industrial Hygienist  |          | 76.92                    |                      |                 |                  | _                  |        |  |
| ngineer II  | 1.174    | 76.92<br>56.42           |                      |                 |                  |                    | _      |  |
| iurvey Manager  |          |                          |                      |                 |                  | _                  | _      |  |
| Surveyor V  |          | 46.16                    |                      |                 |                  |                    |        |  |
| y goden   |          |                          |                      |                 |                  |                    |        |  |
| Quality Control Specialist  | Regular  | 47.04                    |                      |                 |                  | _                  | _      |  |
| Site Safety Officer   | Regular  | 47.04                    |                      |                 |                  | _                  | _      |  |
| JXO Supervisor/Tech VI  | Regular  | 53.29                    |                      |                 |                  | -                  | _      |  |
| JXO Supervisor/Tech V   | Regular  | 47.04                    |                      |                 |                  | •                  | _      |  |
| JXO Technician IV   | Regular  | 40.49                    |                      |                 |                  | •                  | -      |  |
| JXO Technician III  | Regular  | 34.10                    |                      |                 |                  | •                  | -      |  |
| aborer II   | Regular  | 26.65                    |                      |                 |                  | -                  | •      |  |
| property and the second second  | <u> </u> |                          |                      |                 | :                |                    |        |  |
| Subtotal  | Labor    |                          |                      |                 |                  | -                  |        |  |
|   |          |                          |                      |                 |                  |                    |        |  |
| Larger 1  |          | Loaded                   |                      | Number          | Number           |                    |        |  |
| Out Discout Ounts   |          | Rate                     |                      | Weeks           | Units            |                    | Amount |  |
| Other Direct Costs  |          | 25.69                    |                      |                 |                  |                    |        |  |
| M Radio, Handheld w/ charger  | 1.5      | 44.97                    |                      |                 |                  |                    | _      |  |
| FM Radio Repeater/Base Station  |          | 64.24                    |                      |                 |                  |                    |        |  |
| Cellular Telephone and Service  |          |                          |                      | i               |                  |                    |        |  |
| Video Camera  |          | 32.12                    |                      |                 |                  |                    |        |  |
| Computer  | 200      | 96.36                    |                      |                 |                  | -                  |        |  |
| Brushcutter, power  | 11.34    | 96.36                    |                      |                 |                  |                    |        |  |
| Chainsaw  |          | 64.24                    |                      |                 |                  |                    |        |  |
| EOD Demolition Kit  |          | 51.39                    |                      |                 |                  |                    |        |  |
| Foester Ferrex Ordnance Locator   |          | 385.43                   |                      |                 |                  |                    |        |  |
| Schonsledt Magnetic Locator   |          | 51.39                    |                      |                 |                  |                    |        |  |
| Explosive Storage magazine  |          | 44.97                    |                      |                 |                  |                    |        |  |
| Carrier Phase GPS   |          | 899.35                   |                      |                 |                  |                    | 1      |  |
| Surveyor's Kit  |          | 64.24                    | 1                    |                 |                  |                    | •      |  |
| Total Station Survey Equipment  |          | 835.11                   |                      |                 |                  |                    | •      |  |
| Ford Explorer   | *,       | 321.20                   |                      |                 |                  |                    | •      |  |
| Pickup, 4x4, 3/4 Ton  |          | 449.67                   |                      |                 |                  |                    | •      |  |
| Air Fare - Round Trip   |          | 1,220.54                 |                      |                 |                  |                    |        |  |
| Mileage   |          | 0.40                     |                      |                 |                  |                    | •      |  |
| Fuel  |          | 1.74                     |                      |                 |                  |                    | •      |  |
| Lodging   |          | 68.09                    |                      |                 |                  |                    | •      |  |
| Meals and Incidentals   |          | 38.55                    |                      |                 |                  |                    | •      |  |
| Project Consumables   |          | 192.72                   |                      |                 |                  |                    | •      |  |
| Printing and Binding  | ++ 4/0   | 205.56                   |                      |                 |                  |                    | •      |  |
| Shipping  |          | 154.17                   |                      |                 |                  |                    |        |  |
| Site Trailer  |          | 963.59                   |                      |                 |                  |                    |        |  |
| Electrical Hook Up  |          | 1,927.17                 |                      |                 |                  |                    |        |  |
| Magazine Fencing  |          | 899.35                   |                      |                 |                  |                    |        |  |
| Macazina Laurum   |          | 770.87                   |                      |                 |                  |                    |        |  |
|   |          | 1,541.74                 |                      |                 |                  |                    |        |  |
| Magazine Mobilization   |          |                          |                      |                 |                  |                    | _      |  |
| Magazine Mobilization Donor Explosives                                    |          |                          |                      |                 |                  |                    |        |  |
| Magazine Mobilization<br>Donor Explosives<br>Site Remediation - Pine Farm | d Corte  | 300.00                   |                      |                 |                  |                    |        |  |
| Magazine Mobilization Donor Explosives                                    | ci Costs |                          |                      |                 |                  |                    |        |  |

EVALUATED REMOVAL ALTERNATIVES

# **Landfill and Composting Areas**

# Alternative 6 - Surface and Subsurface Clearance of OE Over Selected Areas to a Depth of Four Feet

Alternative 6 provides for OE surface and subsurface clearance over 5 acres of the area to a depth of four feet. The landfill and composting area consist of 21.31 acres; however, 16.31 acres were previously cleared through other COE OE actions, leaving 5 acres remaining to be cleared. Because the surface clearance will be performed concurrently with the subsurface clearance, the cost for the surface clearance is included the subsurface costs. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are moderate in the landfill area and the production rate for this effort has been adjusted accordingly. It is assumed that 60% of the total grids will require moderate brush clearance. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. The production rate for OE removal was reduced to one acre per workday due to its proximity to the landfill. Though work is to be performed on privately owned property site restoration will not be necessary given the end use of the property as a landfill. Due to the limited scope and duration, a site visit and site trailer/office will not be necessary and has been eliminated from the cost estimate.

Total Acreage involved:

Total Acreage Previously Cleared of UXO:

Adjusted acreage to be cleared of UXO: Adjusted number of search grids Grids Requiring Brush Clearance

Search Grid Size: 100' X 100'

21.31 acres

16.31 of the 21.31 acres

5 acres 22 grids

14 grids

0.22 acres per grid

#### Production Rates:

Brush Clearance

Land Survey
Surface Clearance

5 grids per day per four man team (1 team)

14 grids per day per two person team (1 team) 4.36 grids per workday (1 acre) per 5 person

team (1 team)

#### Duration:

Project Management

Brush Clearance

3 working days/.75 weeks (1 team) 3 working days/.75 week (one team)

Land Survey Subsurface Clearance

5 working days/ 1.25 weeks (1 team) Effort included in Surface Clearance

Disposal Quality Control Effort included in Surface Clearance 3 working days/.75 week (2-person team)

**Total Project Duration** 

8 working days/2 weeks

8 working days/2 weeks

# OE Surface Clearance/Four Foot in Selected Areas - Alternative 6

Corps of Engineers

Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

#### Summary

|         | Hourly<br>Rate                                      | Heuse<br>per<br>Week  | Number<br>Weeks   | Number<br>People   | Estimated<br>Hours   | Ameunt  |
|---------|---|---|---|--|--|---|
|         | 82.06   |   |   |  | 27.30  | 2,240.24  |
|         | 76.92   |   |   |  | 84.00  | 6,461.28  |
|         | 66.67   |   |   |  | 147.00   | 9,800.49  |
|         | 74.81   |   |   |  | 12.00  | 897.72  |
|         | 76,92   | 3   |   |  | 48.30  | 3,715.24  |
|         | 56.42   |   |   |  | 92.40  | 5,213.21  |
|         | 46.16   |   |   |  | 31.50  | 1,454.04  |
|         |   |   |   |  |  |   |
| Regular | 47.04   |   |   |  | 80.00  | 3,763.20  |
| Regular | 47.04   |   |   |  | 80.00  | 3,763.20  |
| Regular | 53.29   |   |   |  | 120.00   | 6,394.80  |
| Regular | 47.04   |   |   |  | 50.00  | 2,352.00  |
| •       | 40.49   |   |   |  | 270.00   | 10,932,30   |
| -       | 34,10   |   |   |  | 110.00   | 3,751.00  |
| Regular | 28.65   |   |   |  | 180.00   | 5,157.00  |
|         |   |   |   |  | 1 332 50   | 65,895.72   |
|         | Regular<br>Regular<br>Regular<br>Regular<br>Regular | Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 33.29 Regular 40.49 Regular 34.10 Regular 28.65 | 82.06<br>76.92<br>66.67<br>74.81<br>76.92<br>56.42<br>46.18<br>Regular 47.04<br>Regular 53.29<br>Regular 47.04<br>Regular 40.49<br>Regular 34.10<br>Regular 28.65 | 82.06<br>76.92<br>66.67<br>74.81<br>76.92<br>56.42<br>45.16<br>Regular 47.04<br>Regular 47.04<br>Regular 53.29<br>Regular 47.04<br>Regular 40.49<br>Regular 34.10<br>Regular 28.65 | 82.06<br>75.92<br>66.67<br>74.81<br>76.92<br>56.42<br>45.16<br>Regular 47.04<br>Regular 53.29<br>Regular 47.04<br>Regular 47.04<br>Regular 40.49<br>Regular 34.10<br>Regular 28.65 | 82.06 75.92 84.00 66.67 147.00 74.81 12.00 76.92 48.30 56.42 92.40 46.16  Regular 47.04 Regular 47.04 Regular 53.29 Regular 47.04 Regular 40.49 Regular 34.10 Regular 28.65 |

|                                 | Loaded   | Number Number | -          |
|---------------------------------|----------|---------------|------------|
| Other Direct Costs              | Rate     | Weeks Units   | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    |               | 160.57     |
| FM Radio Repeater/Base Station  | 44.97    |               | 359.76     |
| Cellular Telephone and Service  | 64.24    |               | 128.48     |
| Video Camera                    | 32.12    |               | 64.24      |
| Computer                        | 96.36    |               | 361.35     |
| Brushcutter, power              | 96.36    |               | 289.08     |
| Chainsaw                        | 64.24    |               | 96.36      |
| EOD Demolition Kit              | 51.39    |               | 64.24      |
| Foester Ferrex Ordnance Locator | 385.43   |               | -          |
| Schonstedt Magnetic Locator     | 51.39    |               | 835.09     |
| Explosive Storage magazine      | 44.97    |               | 269.62     |
| Carrier Phase GPS               | 899.35   |               | 899.35     |
| Surveyor's Kit                  | 64.24    |               | 48.18      |
| Total Station Survey Equipment  | 835.11   |               | 835.11     |
| Ford Explorer                   | 321.20   |               | 963.60     |
| Pickup, 4x4, 3/4 Ton            | 449.67   |               | 786.93     |
| Air Fare - Round Trip           | 1,220.54 |               | 9,764.32   |
| Mileage                         | 0.40     |               | 940,00     |
| Fuel                            | 1.74     |               | 542.88     |
| Lodging                         | 68.09    |               | B,511.25   |
| Meals and Incidentals           | 38.55    |               | 6,630.60   |
| Project Consumables             | 192.72   |               | 9,202.38   |
| Printing and Binding            | 205.56   |               | 1,438.92   |
| Shipping                        | 154.17   |               | 616.68     |
| Site Trailer                    | 963.59   |               | •          |
| Electrical Hook Up              | 1,927.17 |               |            |
| Magazine Fencing                | 899.35   |               | 899.35     |
| Magazine Mobilization           | 770.87   |               | 770.87     |
| Donor Explosives                | 1,541.74 |               | 154.17     |
| Subtotal - Other Direct Costs   |          |               | 45,633.58  |
| Total Estimated Costs           |          |               | 111,529.30 |
|                                 |          |               |            |

Corps of Engineers

Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

Tash 1 Site Visit

|                                 |         | Site Visit       |              |        |          |           |          |
|---------------------------------|---------|------------------|--------------|--------|----------|-----------|----------|
|                                 |         | Loaded<br>Hourly | Hours<br>per | Number | Number   | Estimated |          |
| Labor Category                  |         | Rate             | Week         | Weeks  | People   | Hoors     | Amount   |
| rogram Management I             | 7       | 82.06            |              |        |          | •         | -        |
| Project Manager III             |         | 76.92            |              |        |          | •         | •        |
| Project Manager II              |         | 66.67            |              |        |          | -         | •        |
| Certified Industrial Hygienist  |         | 74.61            |              |        |          | -         | -        |
| ingineer II                     |         | 76.92            |              |        |          | -         | -        |
| Survey Manager                  |         | 56.42            |              |        |          | -         | -        |
| Surveyor V                      |         | 46.16            |              |        |          | -         | _        |
|                                 |         |                  |              |        | <u> </u> |           |          |
| Quality Control Specialist      | Regular | 47.04            |              |        |          | -         | -        |
| Site Safety Officer             | Regular | 47.04            |              |        |          | -         | •        |
| JXO Supervisor/Tech VI          | Regular | 53.29            |              |        |          | -         | -        |
| UXO Supervisor/Tech V           | Regular | 47.04            |              |        |          | -         | -        |
| JXO Technician IV               | Regular | 40.49            |              |        |          | -         | -        |
| UXO Technician III              | Regular | 34,10            |              |        |          | •         | -        |
| Laborer II                      | Regular | 28.65            |              |        |          | -         | -        |
| EBBOTET II                      |         |                  |              |        |          | <u> </u>  |          |
| Subtotal - Labo                 | or      |                  |              |        |          | -         | -        |
|                                 |         |                  |              |        |          |           |          |
|                                 |         |                  |              |        |          |           |          |
|                                 |         | Loaded           |              | Number | Number   |           |          |
| Other Direct Costs              |         | Rate             |              | Weeks  | Units    |           | Amount   |
| FM Radio, Handheld w/ charger   |         | 25.69            | 1            |        |          |           | -        |
| FM Radio Repeater/Base Station  |         | 44.97            |              |        |          |           | -        |
| Cellular Telephone and Service  |         | 64.24            |              |        |          |           | •        |
| Video Camera                    |         | 32.12            |              |        |          |           | -        |
| Computer                        |         | 96.36            |              |        |          |           | -        |
| Brushcutter, power              |         | 96.36            |              |        |          |           | -        |
| Chainsaw                        |         | 64.24            |              |        |          |           | -        |
| EOD Demolition Kit              |         | 51.39            |              | į.     |          |           | -        |
| Foester Ferrex Ordnance Locator |         | 385.43           |              |        |          |           | -        |
| Schonstedt Magnetic Locator     |         | 51.39            |              |        |          |           | -        |
| Explosive Storage magazine      |         | 44.97            |              |        |          |           | -        |
| Carrier Phase GPS               |         | 899.35           |              |        |          |           | -        |
| Surveyor's Kit                  |         | 64.24            |              |        |          |           | -        |
| Total Station Survey Equipment  |         | 835.11           |              |        |          |           | -        |
| Ford Explorer                   |         | 321.20           |              |        |          |           | -        |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |              |        |          |           | -        |
| Air Fare - Round Trip           |         | 1,220.54         |              |        |          |           | -        |
| Mileage                         |         | 0.40             |              |        |          |           | -        |
| Fuel                            |         | 1.74             |              |        |          |           | -        |
| Lodging                         |         | 68.09            | •            |        |          |           | -        |
| Meals and Incidentals           |         | 38.55            |              |        |          |           | -        |
| Project Consumables             |         | 192.72           |              |        |          |           | -        |
| Printing and Binding            |         | 205.56           |              |        |          |           | •        |
| Shipping                        |         | 154.17           |              |        |          |           | •        |
| Site Trailer                    |         | 963.59           |              |        |          |           | •        |
| Electrical Hook Up              |         | 1,927.17         |              |        |          |           | -        |
| Magazine Fencing                |         | 899.3            | 5            |        |          |           | -        |
| Magazine Mobilizatioπ           |         | 770.87           | 7            |        |          |           | •        |
| Donor Explosives                |         | 1,541.74         | 4            |        |          |           |          |
| Subtotal - Other Direct Co      | sts     |                  |              |        |          |           | <b>-</b> |
|                                 |         |                  |              |        |          |           |          |
| Total Estimated Co              | sts     |                  |              |        |          |           |          |
|                                 |         |                  | j            |        |          |           |          |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

Task 3 Week Plen

|                                 | Werk Plan |                  |       |        |                 |           |                |
|---------------------------------|-----------|------------------|-------|--------|-----------------|-----------|----------------|
|                                 |           | Londed<br>Hourly | Hours | Number | Number          | Batimated |                |
|                                 |           | Rate             | Week  | Weeks  | People          | Hours     | Amount         |
| Labor Category                  |           | 82,06            | 42.00 | 0.40   | 1.00            | 16.80     | 1,378.61       |
| rogram Management I             |           | 76.92            | 12.00 | •,     |                 | -         | •              |
| roject Manager III              |           | 66.67            | 42.00 | 1.50   | 1.00            | 63.00     | 4,200.21       |
| roject Manager II               |           | 74.81            | 40.00 | 0.30   | 1.00            | 12.00     | 897.72         |
| ertified Industrial Hygienist   |           | 76.92            | 42.00 | 0.40   | 1.00            | 16.80     | 1,292.26       |
| ngineer II                      |           | 56.42            | 42.00 | 0.50   | 1.00            | 21.00     | 1,184.82       |
| urvey Manager                   |           | 46.16            |       |        |                 | -         | -              |
| urveyor V                       |           | 40,10            |       |        |                 |           |                |
| tuality Control Specialist      | Regular   | 47.04            |       |        |                 | -         | -              |
| ite Safety Officer              | Regular   | 47.04            |       |        |                 | -         | -              |
| IXO Supervisor/Tech VI          | Regular   | 53.29            | 40.00 | 0.75   | 1.00            | 30.00     | 1,598.70       |
| JXO Supervisor/Tech V           | Regular   | 47.04            |       |        |                 | -         | -              |
| IXO Technician IV               | Regular   | 40.49            |       |        |                 | -         | -              |
|                                 | Regular   | 34.10            |       |        |                 | -         | -              |
| JXO Technician III              | Regular   | 28.65            |       |        |                 | •         | •              |
| aborer II                       | rtogato.  |                  |       |        |                 | _         |                |
| Subtotal - Lab                  | ог        |                  |       |        |                 | 159.60    | 10,552.32      |
|                                 |           |                  |       |        |                 |           |                |
|                                 |           |                  |       |        |                 |           |                |
|                                 |           | Loaded           |       |        | Number<br>Units |           | Amount         |
| Other Direct Costs              |           | Rate             |       | Weeks  | Units           |           | Airio          |
| M Radio, Handheld w/ charger    |           | 25.69            |       |        |                 |           |                |
| M Radio Repeater/Base Station   |           | 44.97            |       |        |                 |           |                |
| Cellular Telephone and Service  |           | 64.24            |       |        |                 |           |                |
| Video Camera                    |           | 32.12            |       |        |                 |           | 96.36          |
| Computer                        |           | 96.36            |       | 1.00   | 1.00            |           | - 50.50        |
| Brushcutter, power              |           | 96,36            |       |        |                 |           | -              |
| Chainsaw                        |           | 64.24            |       |        |                 |           | •              |
| EOD Demolition Kit              |           | 51.39            |       |        |                 |           | •              |
| Foester Ferrex Ordnance Locator |           | 385.43           |       |        |                 |           | -              |
| Schonstedt Magnetic Locator     |           | 51,39            |       |        |                 |           | -              |
| Explosive Storage magazine      |           | 44.97            |       |        |                 |           | -              |
| Carrier Phase GPS               |           | B99.35           |       |        |                 |           | •              |
| Surveyor's Kit                  |           | 64.24            |       |        |                 |           | -              |
| Total Station Survey Equipment  |           | 835.11           |       |        |                 |           |                |
| Ford Explorer                   |           | 321.20           |       | 1.00   | 1,00            |           | 321.2          |
| Pickup, 4x4, 3/4 Ton            |           | 449.67           |       |        |                 |           | 1,220.5        |
| Air Fare - Round Trip           |           | 1,220.54         |       | 1.00   |                 |           | 20.0           |
| Mileage                         |           | 0.40             |       | 50.00  |                 |           | 69.6           |
| Fuel                            |           | 1.74             |       | 1.00   |                 |           | 408.5          |
| Lodging                         |           | 68.09            |       | 8.00   |                 |           | 406.5<br>269.8 |
| Meats and Incidentals           |           | 38.55            |       | 7.00   |                 |           | 1,541.7        |
| Project Consumables             |           | 192.72           |       | 8.00   |                 |           | 411.1          |
| Printing and Binding            |           | 205.56           |       | 1.00   | 2.00            |           |                |
| Shipping                        |           | 154.17           |       |        |                 |           |                |
| Site Trailer                    |           | 963.59           |       |        |                 |           |                |
| Electrical Hook Up              |           | 1,927.17         |       |        |                 |           | _              |
| Magazine Fencing                |           | 899.35           |       |        |                 |           |                |
| Magazine Mobilization           |           | 770.87           |       |        |                 |           |                |
| Donor Explosives                |           | 1,54 <u>1.74</u> |       |        |                 |           | 4,358.9        |
| Subtotal - Other Direct Co      | osts      |                  |       |        |                 |           | 4,000.0        |
|                                 |           |                  |       |        |                 |           | 14,911.2       |
| Total Estimated C               | 2818      |                  |       |        |                 |           | 17,01          |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

Took 3 Site Manademen

| Laber Category                                   |         | Londed<br>Hourly | Hours<br>per | Number   | Number       | Estimated    |                   |
|--|---------|------------------|--------------|----------|--------------|--------------|-------------------|
|  |         | Rate             | Week         | Weeks_   | People       | lleurs       | Ameunt            |
| Program Management (                             |         | 82.06            |              |          |              | -            | -                 |
| Project Manager III                              |         | 76,92            | 42.00        | 2.00     | 1.00         | 84.00        | 6,461.28          |
| Project Manager II                               | :       | 66.67            |              |          |              | •            | -                 |
| Certified Industrial Hygienist                   |         | 74.81            |              |          |              | •            | •                 |
| Engineer II                                      |         | 76.92            |              |          |              | -            | -                 |
| Survey Manager                                   |         | 56.42            |              |          |              | -            | •                 |
| Surveyor V                                       |         | 46.16            |              |          |              | <u>-</u>     |                   |
|  |         |                  |              |          |              |              |                   |
| Quality Control Specialist                       | Regular | 47.04            |              |          |              | -            |                   |
| Site Safety Officer                              | Regular | 47.04            | 40.00        | 2.00     | 1.00         | 80.00        | 3,763.20          |
| JXO Supervisor/Tech VI                           | Regular | 53.29            | 40.00        | 2.00     | 1.00         | 80.00        | 4,263.20          |
| UXO Supervisor/Tech V                            | Regular | 47.04            |              |          |              | -            | -                 |
| JXO Technician IV                                | Regular | 40.49            |              |          |              | -            | -                 |
| UXO Technician III                               | Regular | 34.10            |              |          |              | •            | -                 |
| Laborer II                                       | Regular | 28.65            |              |          |              | •            | •                 |
|  |         |                  |              |          |              | <del>-</del> |                   |
| Subtotal - Lab                                   | or      |                  |              |          |              | 244.00       | 14,487.68         |
|  |         |                  |              |          |              |              |                   |
|  |         | l - adad         |              | Number   | Number       |              |                   |
| Other Direct Cante                               |         | Loaded<br>Rate   |              | Weeks    | Units        |              | Amount            |
| Other Direct Costs FM Radio, Handheld w/ charger | _       | 25,69            |              |          |              |              |                   |
|  |         | 44.97            |              | 2.00     | 4.00         |              | 359.76            |
| FM Radio Repeater/Base Station                   |         | 64.24            |              | 2.00     | 1.00         |              | 128.48            |
| Cellular Telephone and Service                   |         | 32.12            |              | 2.00     | 1.00         |              | 64.24             |
| Video Camera                                     |         | · ·              |              | 2.00     | 1.00         |              | 192.72            |
| Computer   |         | 96,36<br>98,36   |              | 2.00     |              |              | -                 |
| Brushcutter, power                               |         |                  |              |          |              |              | _                 |
| Chainsaw   |         | 64.24            |              |          |              |              | _                 |
| EOD Demolition Kit                               |         | 51,39            |              |          |              |              | _                 |
| Foester Ferrex Ordnance Locator                  |         | 385.43           |              |          |              |              | _                 |
| Schonstedt Magnetic Locator                      |         | 51,39            |              | 2.00     | 2.00         |              | 269.8             |
| Explosive Storage magazine                       | 3       | 44.97            |              | 2.00     | 3.00         | !            | 208.0             |
| Carrier Phase GPS                                |         | 899.35           |              |          |              |              | -                 |
| Surveyor's Kit                                   |         | 64.24            |              |          |              |              | -                 |
| Total Station Survey Equipment                   |         | 835.11           |              |          |              |              | -                 |
| Ford Explorer                                    |         | 321,20           |              |          |              |              | -                 |
| Pickup, 4x4, 3/4 Ton                             |         | 449.67           |              | 4 40     | 3.00         |              | 3.661.6           |
| Air Fare - Round Trip                            |         | 1,220.54         |              | 1.00     | 1.00         |              | 3,001.0.<br>800.0 |
| Mileage  |         | 0.40             |              | 2,000.00 |              |              | 222.7             |
| Fuel   |         | 1.74             |              | 64.00    | 2.00         |              | 2,859.7           |
| Lodging  |         | 68.09            |              | 21.00    | 2.00         |              | 1,696.2           |
| Meals and Incidentals                            |         | 38.55            |              | 22.00    | 2.00         |              | 385.4             |
| Project Consumables                              |         | 192.72           |              | 2,00     | 1.00<br>1.00 |              | 411.1             |
| Printing and Binding                             |         | 205.56           |              | 2.00     |              |              | 462.5             |
| Shipping   |         | 154,17           |              | 1.00     | 3.00<br>1.00 |              | 402.0             |
| Site Trailer                                     |         | 963.59           |              |          | 1.00         |              |                   |
| Electrical Hook Up                               |         | 1,927.17         |              | 4.00     |              |              | 899.3             |
| Magazine Fencing                                 |         | 899.35           |              | 1.00     | 1.00         |              | l .               |
| Magazine Mobilization                            |         | 770.87           |              | 1.00     | 1,00         |              | 770.8             |
| Donor Explosives                                 |         | 1,541.74         |              |          |              |              | 13,184.6          |
|  |         |                  |              |          |              |              |                   |
| Subtotal - Other Direct Co.                      | sts     |                  |              |          |              |              | 13,164.0          |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

Task &

| Landfill and Composting Area    | Task b  |                  |              |             |          |           |                   |  |  |  |
|---------------------------------|---------|------------------|--------------|-------------|----------|-----------|-------------------|--|--|--|
| , ,                             |         |                  |              | Land Survey |          |           |                   |  |  |  |
|                                 |         | Londed<br>Hourly | Hours<br>per | Number      | Number   | Estimated |                   |  |  |  |
| Lahor Category                  |         | Rate             | Week         | Weeks       | People _ | Hours     | Amount            |  |  |  |
| Program Management I            |         | 82.06            |              |             |          |           | -                 |  |  |  |
| Project Manager III             |         | 76.92            |              |             |          | •         | -                 |  |  |  |
| Project Manager II              |         | 66.67            |              |             |          | •         | -                 |  |  |  |
| Certified Industrial Hygienist  |         | 74.81            |              |             |          | -         | -                 |  |  |  |
| Engineer II                     |         | 76.92            |              |             |          | -         | •                 |  |  |  |
| Survey Manager                  |         | 56.42            | 42.00        | 0.70        | 1.00     | 29.40     | 1,658.75          |  |  |  |
| Surveyor V                      |         | 46.16            | 42.00        | 0.75        | 1.00     | 31,50     | 1,454.04          |  |  |  |
| Sulveyor v                      |         |                  |              |             |          |           |                   |  |  |  |
| Quality Control Specialist      | Regular | 47.04            |              |             |          | -         | -                 |  |  |  |
| Site Safety Officer             | Regular | 47.04            |              |             |          | -         | •                 |  |  |  |
| UXO Supervisor/Tech VI          | Regular | 53.29            |              |             |          | •         | -                 |  |  |  |
| UXO Supervisor/Tech V           | Regular | 47.04            |              |             |          | -         | •                 |  |  |  |
|                                 | Regular | 40.49            |              |             |          | -         | •                 |  |  |  |
| UXO Technician IV               | Regular | 34.10            | 40.00        | 0.75        | 1.00     | 30.00     | 1,023.00          |  |  |  |
| UXO Technician III              | Regular | 28.65            | 40.00        | ••          |          |           | -                 |  |  |  |
| Laborer II                      | Regular | 20.93            |              |             |          | -         | -                 |  |  |  |
| Cubbatal Jahan                  |         |                  | i            |             |          | 90.90     | 4,135.79          |  |  |  |
| Subtotal - Labor                |         |                  |              |             |          |           |                   |  |  |  |
|                                 |         |                  |              |             |          |           |                   |  |  |  |
|                                 |         | Loaded           |              | Number      | Number   |           |                   |  |  |  |
|                                 |         | Rate             |              | Weeks       | Units    |           | Amount            |  |  |  |
| Other Direct Costs              | _       |                  | _            | 0.75        | 2.00     |           | 38,54             |  |  |  |
| FM Radio, Handheld w/ charger   |         | 25.69            |              | 0.75        | 2.00     |           | _                 |  |  |  |
| FM Radio Repeater/Base Station  |         | 44.97            |              |             |          |           |                   |  |  |  |
| Cellular Telephone and Service  |         | 64.24            |              |             |          |           | l .               |  |  |  |
| Video Camera                    |         | 32.12            |              | A 75        | 1.00     |           | 72.27             |  |  |  |
| Computer                        |         | 96.36            |              | 0.75        | 1.00     |           |                   |  |  |  |
| Brushcutter, power              |         | 96.36            |              |             |          |           | _                 |  |  |  |
| Chainsaw                        |         | 64.24            |              |             |          |           |                   |  |  |  |
| EOD Demolition Kit              |         | 51.39            |              |             |          |           | _                 |  |  |  |
| Foester Ferrex Ordnance Locator |         | 385.43           |              |             |          |           | 38.54             |  |  |  |
| Schonstedt Magnetic Locator     |         | 51.39            |              | 0.75        | 1.00     |           | 36.54             |  |  |  |
| Explosive Storage magazine      |         | 44.97            |              |             |          |           | 899,35            |  |  |  |
| Carrier Phase GPS               |         | 899.35           |              | 0.50        |          |           |                   |  |  |  |
| Surveyor's Kit                  |         | 64.24            |              | 0.75        |          |           | 46.18             |  |  |  |
| Total Station Survey Equipment  |         | B35.11           |              | 1.00        |          |           | 835,11            |  |  |  |
| Ford Explorer                   |         | 321.20           |              | 1.00        | 1.00     |           | 321.20            |  |  |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |              |             |          |           | 7 444 00          |  |  |  |
| Air Fare - Round Trip           |         | 1,220.54         |              | 1,00        |          |           | 2,441.08<br>40.00 |  |  |  |
| Mileage                         |         | 0.40             |              | 50.00       |          |           | 55.68             |  |  |  |
| Fuel                            |         | 1.74             |              | 32,00       |          |           | 680.90            |  |  |  |
| Lodging                         |         | 68.09            |              | 5.00        | _        |           | 462.60            |  |  |  |
| Meals and Incidentals           |         | 38.55            |              | 6.00        |          |           | 144.54            |  |  |  |
| Project Consumables             |         | 192.72           |              | 0.75        |          |           | 205.56            |  |  |  |
| Printing and Binding            |         | 205.56           |              | 1.00        |          |           | 154.17            |  |  |  |
| Shipping                        |         | 154.17           |              | 1.00        | 1.00     |           | 154.1             |  |  |  |
| Site Trailer                    |         | 963.59           |              |             |          |           |                   |  |  |  |
| Electrical Hook Up              |         | 1,927.17         |              |             |          |           | _                 |  |  |  |
| Magazine Fencing                |         | 899.35           |              |             |          |           | -                 |  |  |  |
| Magazine Mobilization           |         | 770.87           |              |             |          |           | •                 |  |  |  |
| Donor Explosives                |         | 1,541. <u>74</u> |              |             |          |           | 6,437.7           |  |  |  |
| Subtotal - Other Direct Cos     | ts      |                  |              |             |          |           | 0,437./           |  |  |  |
|                                 |         |                  |              |             |          |           |                   |  |  |  |

Task 5 Brush Clearance

| Candin and Composing                        |         |                          |                      | Brush Clearance |                  |                    |           |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
|   |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Betimated<br>Hours | Ameunt    |
| Labor Cntegory                              | _       | 82.06                    | 17 4422              |                 |                  |                    | -         |
| Program Management I                        |         | 76.92                    |                      |                 |                  | -                  | -         |
| Project Manager III                         |         | 66.67                    |                      |                 |                  | -                  | •         |
| Project Manager II                          |         | 74.81                    |                      |                 |                  | -                  | -         |
| Certified Industrial Hygienist              |         | 76.92                    |                      |                 |                  | -                  | -         |
| Engineer II                                 |         | 56.42                    |                      |                 |                  |                    | -         |
| Survey Manager                              |         | 46,16                    |                      |                 |                  | -                  | -         |
| Surveyor V                                  |         | 40.10                    |                      |                 |                  |                    |           |
| Quality Control Specialist                  | Regular | 47.04                    |                      |                 |                  | -                  |           |
| Site Safety Officer                         | Regular | 47.04                    |                      |                 |                  | •                  | -         |
| Site Safety Officer  UXO Supervisor/Tech VI | Regular | 53.29                    |                      |                 |                  | -                  | -         |
|   | Regular | 47.04                    |                      |                 |                  | -                  | •         |
| UXO Supervisor/Tech V<br>UXO Technician IV  | Regular | 40.49                    | 40.00                | 0.75            | 2.00             | 60.00              | 2,429.40  |
| UXO Technician III                          | Regular | 34.10                    |                      |                 |                  | -                  | -         |
|   | Regular | 28.65                    | 40.00                | 0.75            | 6.00             | 180,00             | 5,157.00  |
| Laborer II                                  | regular | 20.00                    |                      |                 |                  | _                  |           |
| Subtotal - Labo                             | or      |                          |                      |                 |                  | 240.00             | 7,586.40  |
|   |         |                          | ·<br>!               |                 |                  |                    |           |
|   |         | Loaded                   |                      | Number<br>Weeks | Number<br>Units  |                    | Amount    |
| Other Direct Costs                          | _       | Rate                     | -                    |                 | 2.00             |                    | 38.54     |
| FM Radio, Handheld w/ charger               |         | 25.69                    |                      | 0.75            | 2.00             |                    | 30.54     |
| FM Radio Repeater/Base Station              |         | 44.97                    |                      |                 |                  |                    |           |
| Cellular Telephone and Service              |         | 64.24                    |                      |                 |                  |                    |           |
| Video Camera                                |         | 32.12                    |                      |                 |                  |                    | _         |
| Computer                                    |         | 96.36                    |                      | 0.75            | 4.00             |                    | 289.08    |
| Brushcutter, power                          |         | 96.36                    |                      | 0.75            | 2.00             |                    | 96.36     |
| Chainsaw                                    |         | 64.24                    |                      | 0.75            | 2.00             |                    | -         |
| EOD Demolition Kit                          |         | 51.39                    |                      |                 |                  |                    |           |
| Foester Ferrex Ordnance Locator             |         | 385,43                   |                      | 0.75            | 2.00             |                    | 77.09     |
| Schonstedt Magnetic Locator                 |         | 51.39                    |                      | 0.75            | 2.00             |                    | -         |
| Explosive Storage magazine                  |         | 44,97                    |                      |                 |                  |                    |           |
| Carrier Phase GPS                           |         | 899.35                   |                      |                 |                  |                    |           |
| Surveyor's Kit                              |         | 64.24                    |                      |                 |                  |                    |           |
| Total Station Survey Equipment              |         | 835.11                   |                      |                 |                  |                    |           |
| Ford Explorer                               |         | 321.20                   |                      | 0.75            | 2.00             |                    | 674.51    |
| Pickup, 4x4, 3/4 Ton                        |         | 449.67<br>1,220.54       |                      | 0.10            | 2.00             |                    | _         |
| Air Fare - Round Trip                       |         | 0.40                     |                      | 50.00           | 2.00             |                    | 40.00     |
| Mileage                                     |         | 1.74                     |                      | 32.00           |                  |                    | 111.36    |
| Fuel  |         | 68.09                    |                      | 42.00           | 1.00             |                    |           |
| Lodging                                     |         | 38.55                    |                      | 35.00           |                  |                    | 1,349.25  |
| Meals and Incidentals                       |         | 192.72                   |                      | 35.00           |                  |                    | 6,745.20  |
| Project Consumables                         |         | 205.56                   |                      |                 |                  | :                  | -         |
| Printing and Binding                        |         | 154.17                   |                      |                 |                  |                    | -         |
| Shipping<br>Site Trailer                    |         | 963.59                   |                      |                 |                  |                    | -         |
| Site Trailer Electrical Hook Up             |         | 1,927.17                 |                      |                 |                  |                    |           |
| Magazine Fencing                            |         | 899.35                   |                      |                 |                  |                    | -         |
| Magazine Fencing Magazine Mobilization      |         | 770.87                   |                      |                 |                  |                    | -         |
| Donor Explosives                            |         | 1,541.74                 |                      |                 |                  |                    |           |
| Subtotal - Other Direct Co                  | sts     |                          |                      |                 |                  |                    | 9,421.39  |
| Total Estimated Co                          | sts     |                          |                      |                 |                  |                    | 17,007.79 |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

#### Task 6 Subsurface OE Removal

| UXO Technician IV   Regular   40.49   40.00   1.25   4.00   200.00   8,098.1   1.25   1.00   200.00   8,098.1   1.25   1.00   200.00   8,098.1   1.25   1.00   200.00   8,098.1   1.25   1.00   250.00   10,450.   250.00   10,450.   250.00   10,450.   250.00   10,450.   250.00   10,450.   250.00   10,450.   250.00   250.00   250.00   20,000   2   |                                |         |          |         | S      | bauriace O | E Removal |              |
|--|--------------------------------|---------|----------|---------|--------|------------|-----------|--------------|
| Program Management   |                                |         |          |         |        | N L        | E.atJ     |              |
| Project Manager II   |                                |         |          | •       |        |            |           | Amount       |
| Project Manager  |                                |         |          | Week    | W cent | 1. cobic   |           |              |
| Project Manager  |                                |         |          |         |        |            | _         | _            |
| Certified Industrial Hygienist   | •                              |         |          |         |        |            |           | -            |
| Tempiner   1   |                                |         | ·        |         |        |            | _         | _            |
| Survey Manager   So. 42   Survey or V   Su   | Certified Industrial Hygienist |         |          |         |        |            |           | -            |
| Surveyor V   46.16   Surveyor V   46.16   Surveyor V   46.16   Surveyor V   46.16   Surveyor V   46.16   Surveyor V   46.16   Surveyor V   47.04   Site Safety Officer   Regular   47.04   4   | Engineer II                    |         |          |         |        |            | _         | _            |
| Quality Control Specialist Regular 47.04 UXO Supervisor/Tech VI Regular 47.04 UXO Supervisor/Tech VI Regular 47.04 UXO Supervisor/Tech VI Regular 47.04 UXO Technician IVI Regular 34.10 UXO Technician III Regular 28.65  Subtotal - Labor    Loaded Rate Weeks Units Amount  | Survey Manager                 |         | j        |         |        |            | _         | _            |
| Site Safety Officer Regular 47.04 UXO Supervisor/Tech VI Regular 53.29 UXO Supervisor/Tech VI Regular 40.49 40.00 1.25 1.00 50.00 2,352.10 UXO Technician IVI Regular 40.49 40.00 1.25 4.00 200.00 8,098.10 UXO Technician IIII Regular 34.10 Laborer III Regular 28.65  Subtotal - Labor    Loaded Rate Weeks Units Amount  | Surveyor V                     |         | 46.18    |         |        |            |           |              |
| Site Safety Officer Regular 47.04 UXO Supervisor/Tech VI Regular 53.29 UXO Supervisor/Tech VI Regular 40.49 40.00 1.25 1.00 50.00 2,352.10 UXO Technician IVI Regular 40.49 40.00 1.25 4.00 200.00 8,098.10 UXO Technician IIII Regular 34.10 Laborer III Regular 28.65  Subtotal - Labor    Loaded Rate Weeks Units Amount  |                                | Decides | 47.04    | <u></u> |        |            | -         |              |
| Magazine Volument   Magazine Activation      |                                | -       |          |         |        |            |           |              |
| UXO Supervisor/Tech V Regular 47.04 40.00 1.25 1.00 50.00 2,352. UXO Technician IV Regular 40.49 40.00 1.25 4.00 200.00 8,098.1 UXO Technician III Regular 28.65  Subtotal - Labor Regular 28.65  Subtotal - Labor Subtotal - Labor Subtotal - Labor Regular 28.65  Subtotal - Labor S |                                | -       |          |         |        |            | _         | _            |
| UXO Supervisor/Tech V Regular 47.04 40.00 1.25 4.00 200.00 8,098.1 UXO Technician IV Regular 34.10 Regular 34.10 Regular 34.10 Regular 34.10 Regular 28.65   |                                | -       |          | 40.00   | 4.25   | 1.00       | 50.00     | 2,352.00     |
| UXO Technician IV Regular 34.10  Laborer II Regular 28.65    Subtotal - Labor   Regular 28.65   Subtotal - Labor   |                                | -       |          |         | ·      |            | •         | 8,098.00     |
| Computer   Substitute   Continue   Computer   Compute   | UXO Technician IV              | -       |          | 40,00   | 1.20   | 4.00       | 200.00    | -            |
| Collect Costs  | UXO Technician III             | -       | -        |         |        |            | _         | _            |
| Coaded   Number   N   | Laborer II                     | Regular | 28.65    |         |        |            |           | _            |
| Coaded Rate   Weeks   Units   Amount   |                                |         |          |         |        |            | 250.00    | 10,450.00    |
| Other Direct Costs         Rate         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         1.25         1.00         32.           FM Radio Repeater/Base Station         44.97         44.96         44.97         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96  | Subtotal - Labo                | r       |          |         |        |            |           |              |
| Other Direct Costs         Rate         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         1.25         1.00         32.           FM Radio Repeater/Base Station         44.97         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96         44.96  |                                |         |          |         |        |            |           |              |
| ## Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton AIr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Project Consumables Project Consumables Project Consumables Project Consumables Project Consumables Project Consumables Project Consumables Pickup Agazine Mobilization Magazine Mobilization Magazine Mobilization Magazine Mobilization Magazine Mobilization Magazine Mobilization Mileage Magazine Mobilization Magazine Mobilization Poonof Explosives  1,541.74  0.50  1.25  1.25  1.00  64  44.97  52.69  1.25  1.00  64  44.97  51.39  51.25  51.00   |                                |         | Loaded   |         | Number | Number     |           |              |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Grunder Grun | Other Direct Costs             |         | Rate     |         | Weeks  | Units      |           | _            |
| FM Radio Repeater/Base Station       44.97         Cellular Telephone and Service       64.24         Video Camera       32.12         Computer       96.36         Brushcutter, power       99.36         Chainsaw       64.24         EOD Demolition Kit       51.39       1.25         Foester Ferrex Ordnance Locator       385.43         Schonstedt Magnetic Locator       51.39       1.25         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alir Fare - Round Trip       1.220.54         Mileage       0.40         Fuel       1.74         Lodging       88.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       1.25         Shipping       154.17       1.25         Site Trailer       983.59       1.25         Electrical Hook Up       1,92   | FM Radio Handheld w/ charger   |         | 25.69    |         | 1.25   | 1.00       |           | 32.11        |
| Cellular Telephone and Service       64.24         Video Camera       32.12         Computer       96.36         Brushcutter, power       96.36         Chainsaw       64.24         EOD Demolition Kit       51.39         Foester Ferrex Ordnance Locator       385.43         Schonstedt Magnetic Locator       51.39         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       88.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       1.25         Shipping       154.17       1.25         Site Trailer       983.59       1.25         Electrical Hook Up       1,927.17       1.25         Magazine Mobilization       770.87       1.541.74<   |                                |         | 44.97    |         |        |            |           | <del>-</del> |
| Video Camera       32.12         Computer       96.36         Brushcutter, power       64.24         Chainsaw       64.24         EOD Demolition Kit       51.39       1.25       1.00       64         Foester Ferrex Ordnance Locator       385.43       1.25       8.00       513         Schonstedt Magnetic Locator       51.39       1.25       8.00       513         Explosive Storage magazine       44.97       7       7       7       7         Carrier Phase GPS       89.35       8.00       513       7       8       7       8       7       8       8       9       9.00       513       7       8       7       8       8       9       9.00       513       7       8       8       8       8       8       8       8       8       8       8       8       9       9.00       5.00       8       9       9.00       5.00       3       3       9       9.00       5.00       3       3       9       9.00       5.00       3       3       9       9.00       5.00       3       9       9.00       5.00       3       9       9.00       5.00       3   |                                | *       | 64.24    |         |        |            |           | -            |
| Computer       96.36         Brushcutter, power       98.36         Chainsaw       64.24         EOD Demolition Kit       51.39       1.25       1.00       64         Foester Ferrex Ordnance Locator       385.43       55       51.39       1.25       8.00       513         Explosive Storage magazine       44.97       64.24       64.2   |                                |         | 32.12    |         |        |            |           | -            |
| Brushcutter, power   96.36   64.24   EOD Demolition Kit   51.39   1.25   1.00   64   64.24   64.24   65.39   1.25   1.00   64   64.24   65.39   1.25   1.00   64   64.24   65.39   1.25   6.00   65.39   1.25   6.00   65.39   |                                |         | 96.36    |         |        |            |           | -            |
| Chainsaw   64.24   EOD Demolition Kit   51.39   1.25   1.00   64   | · · · · · · · ·                |         | 96.36    |         |        |            |           | -            |
| ## Standard Research Ferrex Ordnance Locator   |                                |         | 64.24    |         |        |            |           | -            |
| Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Air Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding Shipping Site Trailer Electrical Hook Up Magazine Mobilization Donor Explosives  385.43 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 1.25 8.00 513 8.00 64.24 64.2 |                                |         | 51.39    |         | 1.25   | 1.00       |           | 64.24        |
| Schonstedt Magnetic Locator       51.39       1.25       8.00         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       1.25         Shipping       154.17       983.59         Electrical Hook Up       1,927.17         Magazine Fencing       399.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74       0.50       0.20  |                                |         | 385.43   |         |        |            |           | -            |
| Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding Shipping Site Trailer Electrical Hook Up Magazine Mobilization Donor Explosives  899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 899.35 80.50 | ·                              |         | 51.39    |         | 1.25   | 8.00       |           | 513,90       |
| Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Air Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       1.25         Shipping       154.17       5.00         Site Trailer       963.59       Electrical Hook Up         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74       0.50       0.20  | <del>-</del>                   |         | 44.97    |         |        |            |           | -            |
| Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Air Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       1.25         Shipping       154.17       5.00         Site Trailer       963.59       1.927.17         Magazine Fencing       899.35       770.87         Donor Explosives       1,541.74       0.50       0.20   | •                              |         | 899.35   |         |        |            |           | -            |
| Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Air Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       1.25         Shipping       154.17       5.00         Site Trailer       963.59       1.927.17         Magazine Fencing       899.35       770.87         Donor Explosives       1,541.74       0.50       0.20  |                                |         | 64.24    |         |        |            |           | -            |
| Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding Shipping Site Trailer Electrical Hook Up Magazine Fencing Magazine Mobilization Donor Explosives  321.20 449.67 449.67 1,220.54 449.67 1,220.64 449.67 1,220.64 449.67 1,220.64 4 |                                |         | 835,11   |         |        |            |           | -            |
| Pickup, 4x4, 3/4 Ton       449.67         Air Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09       9.00       5.00         Meals and Incidentals       38.55       10.00       5.00         Project Consumables       192.72       1.25         Printing and Binding       205.56       5.00         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74       0.50       0.20   | • • • •                        |         | 321.20   |         |        |            |           | -            |
| Air Fare - Round Trip  Mileage  Fuel  Lodging  Meals and Incidentals  Project Consumables  Printing and Binding  Shipping  Site Trailer  Electrical Hook Up  Magazine Fencing  Magazine Mobilization  Donor Explosives  1,220.54  0.40  1,74  1,74  1,74  1,90  1, |                                |         | 449.67   |         |        |            |           | -            |
| Mileage       0.40         Fuel       1.74         Lodging       68.09       9.00       5.00       3,064         Meals and Incidentals       38.55       10.00       5.00       1,927         Project Consumables       192.72       1.25         Printing and Binding       205.56       5.00       1.25         Shipping       154.17       5.00       5.00       1.927         Site Trailer       963.59       5.9       5.00       5.00       1.927         Electrical Hook Up       1,927.17       899.35       7.0.87       0.50       0.20       1.541.74         Donor Explosives       1,541.74       0.50       0.20       1.57  | • •                            |         | 1,220.54 |         |        |            |           | -            |
| Fuel       1.74         Lodging       68.09       9.00       5.00       3,064         Meals and Incidentals       38.55       10.00       5.00       1,927         Project Consumables       192.72       1.25         Printing and Binding       205.56       5.00       1.25         Shipping       154.17       5.00       1.25         Site Trailer       963.59       5.00       1.25         Electrical Hook Up       1,927.17       4.927.17       4.927.17         Magazine Fencing       899.35       770.87       0.50       0.20         Donor Explosives       1,541.74       0.50       0.20       5.75   |                                |         | 0.40     |         |        |            |           | -            |
| Lodging       68.09       9.00       5.00       3,064         Meals and Incidentals       38.55       10.00       5.00       1,927         Project Consumables       192.72       1.25       1.25         Printing and Binding       205.56       5.60       1.25         Shipping       154.17       5.00       1.25         Site Trailer       963.59       1.927.17       1.927.17         Magazine Fencing       899.35       1.927.17       1.927.17         Magazine Mobilization       770.87       0.50       0.20       1.54         Donor Explosives       1.541.74       0.50       0.20       1.57   | _                              |         | 1.74     |         | İ      |            |           |              |
| Meals and Incidentals       38.55       10.00       5.00       1,927         Project Consumables       192.72       1.25         Printing and Binding       205.56       5.00         Shipping       154.17       5.00         Site Trailer       963.59       5.00         Electrical Hook Up       1,927.17       4.00         Magazine Fencing       899.35       6.00         Magazine Mobilization       770.87       7.00         Donor Explosives       1,541.74       0.50       0.20  |                                |         | 68.09    |         | 9.00   | 5,00       |           | 3,064.05     |
| Printing and Binding 205.56 Shipping 154.17 Site Trailer 983.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 0.50 0.20   |                                |         | 38.55    | 5       | 10.00  | 5.00       |           | 1,927.50     |
| Shipping         154.17           Site Trailer         963.59           Electrical Hook Up         1,927.17           Magazine Fencing         899.35           Magazine Mobilization         770.87           Donor Explosives         1,541.74         0.50         0.20   | Project Consumables            |         | 192.72   | 2       | 1.29   | 5          |           | •            |
| Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74       0.50       0.20   | Printing and Binding           |         | 205.56   | 6       |        |            |           | -            |
| Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74       0.50       0.20   | -                              |         | 154.17   | 7       |        |            |           | -            |
| Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 0.50 0.20 157   | · · ·                          |         | 963.59   |         |        |            |           | •            |
| Magazine Fencing         899.35           Magazine Mobilization         770.87           Donor Explosives         1,541.74         0.50         0.20   |                                |         | 1,927.17 | 7       |        |            |           | -            |
| Magazine Mobilization         770.87           Donor Explosives         1,541.74         0.50         0.20   |                                |         | 899.3    | 3       |        |            |           | -            |
| Donor Explosives 1,541.74 0.50 0.20 154  |                                |         | 770.8    | 7       |        |            |           | <u>.</u>     |
|  | <del>-</del>                   |         | 1,541.74 | 4       | 0.5    | 0 0.20     |           | 154.17       |
|  |                                | sts     |          |         |        |            |           | 5,755.97     |
| 40.00  |                                |         |          |         |        |            |           | 16,205.97    |
| Total Estimated Costs  | Total Estimated Co             | ts      |          |         |        |            |           | 10,200.81    |

Corps of Engineers
Camp Croft, Spartenburg, S.C.

Camp Gron, Spartenburg, S.C. Engineering Design Cost Estimate Landfill and Composting Area

Task 7 Serap Turn-In

|                                 |         |                |             |                 | Serap To         | era-la    |   |
|---------------------------------|---------|----------------|-------------|-----------------|------------------|-----------|---|
|                                 |         | Loaded         | Hours       |                 | N. I             | Betimeted |   |
|                                 |         | Housely        | per<br>Week | Number<br>Weeks | Number<br>People | Maurs     | Amount                                  |
| Labor Category                  | _       | Rate           | WEER        | T ECKI          |                  |           | -                                       |
| Program Management I            |         | 82.06<br>76.92 |             |                 |                  | -         | -                                       |
| Project Manager III             |         |                |             |                 |                  | _         | -                                       |
| Project Manager II              |         | 66.67          |             |                 |                  | _         |   |
| Certified Industrial Hygienist  |         | 74.81          |             |                 |                  | _         | _                                       |
| Engineer II                     |         | 76.92          |             |                 |                  | _         | •                                       |
| Survey Manager                  |         | 56.42          |             |                 |                  | _         | _                                       |
| Surveyor V                      |         | 46.16          |             |                 |                  | <u>-</u>  |   |
|                                 | D la .  | 47.04          |             |                 |                  |           |   |
| Quality Control Specialist      | Regular | 47.04          |             |                 |                  | _         | -                                       |
| Site Safety Officer             | Regular |                | 40.00       | 0.25            | 1,00             | 10.00     | 532.90                                  |
| UXO Supervisor/Tech VI          | Regular | 53.29          | 40.00       | 0.23            | 1,00             | -         | -                                       |
| UXO Supervisor/Tech V           | Regular | 47.04          | 40.00       | 0.25            | 1.00             | 10.00     | 404.90                                  |
| UXO Technician IV               | Regular | 40.49          | 40.00       | 0.25            | 1,00             | -         | •                                       |
| UXO Technician III              | Regular | 34.10          |             |                 |                  | _         | _                                       |
| Laborer II                      | Regular | 28.65          |             |                 |                  | _         | _                                       |
|                                 |         |                |             |                 |                  | 20.00     | 937,80                                  |
| Subtotal - Labo                 | or      |                |             |                 |                  | 20.50     |   |
|                                 |         |                |             |                 |                  |           |   |
|                                 |         | Loaded         |             | Number          | Number           |           |   |
|                                 |         | Rate           |             | Weeks           | Units            |           | Amount                                  |
| Other Direct Costs              | _       |                | 7           | 11,0000         |                  |           |   |
| FM Radio, Handheld w/ charger   |         | 25.69          |             |                 |                  |           | _                                       |
| FM Radio Repeater/Base Station  |         | 44,97          |             |                 |                  |           |   |
| Cellular Telephone and Service  |         | 64.24          |             |                 |                  |           | _                                       |
| Video Camera                    |         | 32.12          |             |                 |                  |           | _                                       |
| Computer                        |         | 96.36          |             |                 |                  |           | _                                       |
| Brushcutter, power              |         | 96.36          |             |                 |                  |           | _                                       |
| Chainsaw                        |         | 64.24          |             |                 |                  |           | _                                       |
| EOD Demolition Kit              |         | 51.39          |             |                 |                  |           | _                                       |
| Foester Ferrex Ordnance Locator |         | 385.43         |             |                 |                  |           | _                                       |
| Schonstedt Magnetic Locator     |         | 51.39          |             |                 |                  |           | _                                       |
| Explosive Storage magazine      |         | 44.97          |             |                 |                  |           | · -                                     |
| Carrier Phase GPS               |         | 899.35         |             |                 |                  |           | Ī .                                     |
| Surveyor's Kit                  |         | 64.24          |             |                 |                  |           | _                                       |
| Total Station Survey Equipment  |         | 835.11         |             |                 |                  |           | -                                       |
| Ford Explorer                   |         | 321.20         |             |                 |                  |           | 112.42                                  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67         |             | 1,00            | 0.25             |           | (12.72                                  |
| Air Fare - Round Trip           |         | 1,220.54       |             |                 |                  |           | _                                       |
| Mileage                         |         | 0.40           |             | 40.00           |                  |           | 27,84                                   |
| Fuel                            |         | 1.74           |             | 16.00           |                  |           | 136.18                                  |
| Lodging                         |         | 66.09          |             | 1.00            |                  |           | 77.10                                   |
| Meals and incidentals           |         | 38.55          |             | 1.00            |                  |           | 192.72                                  |
| Project Consumables             |         | 192.72         |             | 1.00            | 1.00             |           | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Printing and Binding            |         | 205.56         |             |                 |                  |           | _                                       |
| Shipping                        |         | 154.17         |             |                 |                  |           |   |
| Site Trailer                    |         | 963.59         |             |                 |                  |           | _                                       |
| Electrical Hook Up              |         | 1,927.17       |             |                 |                  |           | _                                       |
| Magazine Fencing                |         | 899.3          |             |                 |                  |           |   |
| Magazine Mobilization           |         | 770.87         |             |                 |                  |           | _                                       |
| Donor Explosives                |         | 1,541.74       |             |                 |                  |           | 546.26                                  |
| Subtolal - Other Direct Co      | sts     |                |             |                 |                  |           | 370.20                                  |
|                                 |         |                |             |                 |                  |           | 1,484.06                                |
| Total Estimated Co              | sts     |                |             |                 |                  |           | 1,704.00                                |
|                                 |         |                | !           |                 |                  |           |   |

Task 8 Quality Control

|  |         |                |             |        | Marnia c | <b>A</b>  |           |
|--|---------|----------------|-------------|--------|----------|-----------|-----------|
|  |         | Londed         | Hours       | Number | Nbas     | Estimated |           |
|  |         | Heorly<br>Rate | per<br>Week | Weeks  | People   | Hours     | Amount    |
| Labor Category                                     | _       | 82.06          | W. Cen      |        |          |           | -         |
| Program Management I                               |         | 76.92          |             |        |          | -         | -         |
| Project Manager III                                |         | 66,67          |             |        |          | -         | -         |
| Project Manager II                                 |         | 74.81          |             |        |          | -         | -         |
| Certified Industrial Hygienist                     |         | 76.92          |             |        |          | -         | -         |
| Engineer II  |         | 56.42          |             |        |          |           | -         |
| Survey Manager                                     |         | 46,16          |             |        |          | _         | -         |
| Surveyor V   |         | 40,10          |             |        |          |           |           |
|  |         | 47.04          | 40.00       | 2.00   | 1.00     | 80,00     | 3,763.20  |
| Quality Control Specialist                         | Regular | 47.04          | 40.00       | 2,00   | 1.00     | -         | -         |
| Site Safety Officer                                | Regular | 47.04          |             |        |          | _         | _         |
| UXO Supervisor/Tech VI                             | Regular | 53.29          |             |        |          | _         | _         |
| UXO Supervisor/Tech V                              | Regular | 47.04          |             |        |          | _         |           |
| UXO Technician IV                                  | Regular | 40.49          |             | 0.00   | 1.00     | 80.00     | 2,728.00  |
| UXO Technician III                                 | Regular | 34,10          | 40.00       | 2.00   | 1.00     | -         | •         |
| Laborer II   | Regular | 28.65          |             |        |          | _         | _         |
|  |         | !              |             |        |          | 160.00    | 6,491,20  |
| Subtotal - Labo                                    | )r      |                |             |        |          | , 0       |           |
|  |         |                |             |        |          |           |           |
|  |         | Loaded         | -           | Number | Number   |           |           |
| Other Direct Costs                                 |         | Rate           |             | Weeks  | Units    |           | Amount    |
| FM Radio, Handheld w/ charger                      |         | 25.69          |             | 2.00   | 1.00     |           | 51.38     |
| FM Radio Repeater/Base Station                     |         | 44.97          | :           |        |          |           | -         |
| Cellular Telephone and Service                     |         | 64.24          |             |        |          |           | -         |
| Video Camera                                       | ì       | 32.12          |             |        |          |           | •         |
| - · · · ·  |         | 96.36          |             |        |          |           | -         |
| Computer Power                                     |         | 96.36          |             |        |          |           | -         |
| Brushcutter, power                                 |         | 64.24          |             |        |          |           | •         |
| Chainsaw   |         | 51.39          |             |        |          |           | -         |
| EOD Demolition Kit Foester Ferrex Ordnance Locator |         | 385.43         |             |        |          |           | -         |
|  |         | 51.39          |             | 2.00   | 2.00     |           | 205.56    |
| Schonstedt Magnetic Locator                        |         | 44.97          |             |        |          |           | -         |
| Explosive Storage magazine                         |         | 899.35         |             |        |          |           |           |
| Carrier Phase GPS                                  |         | 64.24          |             |        |          |           | -         |
| Surveyor's Kit                                     |         | 835.11         |             |        |          |           | -         |
| Total Station Survey Equipment                     |         | 321.20         |             | 1.00   | 1.00     |           | 321.20    |
| Ford Explorer                                      |         | 449.67         |             |        |          |           | -         |
| Pickup, 4x4, 3/4 Ton<br>Alr Fare - Round Trip      |         | 1,220.54       |             | 1.00   | 2.00     |           | 2,441.08  |
| ·  |         | 0.40           |             | 50.00  | 2.00     |           | 40.00     |
| Mileage  |         | 1.74           |             | 1.00   | 32.00    |           | 55.68     |
| Fuel   |         | 68.09          |             | 10.00  | 2.00     |           | 1,361.80  |
| Lodging<br>Meals and Incidentals                   |         | 38.55          |             | 11,00  | 2.00     |           | 848.10    |
| Project Consumables                                |         | 192.72         |             | 1,00   | 1.00     |           | 192.72    |
| -  |         | 205.56         |             |        |          |           | -         |
| Printing and Binding                               |         | 154.17         |             |        |          |           | •         |
| Shipping<br>Site Trailer                           |         | 963.59         |             |        |          |           | -         |
| Site Trailer Electrical Hook Up                    |         | 1,927.17       |             |        |          |           | -         |
| Magazine Fencing                                   |         | 899.35         |             |        |          |           | -         |
| Magazine Mobilization                              |         | 770.87         |             |        |          |           | -         |
| Donor Explosives                                   |         | 1,541.74       |             |        |          |           |           |
| Subtotal - Other Direct Co                         | sts     | .,             |             |        |          |           | 5,517.52  |
| Patromi - Amor Brade of                            |         |                |             |        |          |           |           |
| Total Estimated Co                                 | sts     |                |             |        |          |           | 12,008.72 |
|  |         |                |             |        |          |           |           |

Task 9 Final Report

|   |         | Landed             | House |        |        |                    |                    |
|---|---------|--------------------|-------|--------|--------|--------------------|--------------------|
|   |         | Hourly             | per   | Number |        | Estimated<br>Hours | Amount             |
| Labor Category                              |         | Rate               | Week  | Weeks  | People | 10.50              | 861.63             |
| Program Management I                        |         | 82.06              | 42.00 | 0.25   | 1,00   | 10.50              |                    |
| Project Manager III                         |         | 76. <del>9</del> 2 |       |        | 1.00   | 84.00              | 5,600.28           |
| Project Manager II                          |         | 66.67              | 42.00 | 2.00   | 1.00   | -                  | -                  |
| Certified Industrial Hygienist              |         | 74,81              |       | 0.75   | 1,00   | 31,50              | 2,422,98           |
| Engineer II                                 |         | 76.92              | 42.00 | 0.75   | 1.00   | 42.00              | 2,369.64           |
| Survey Manager                              |         | 56.42              | 42.00 | 1.00   | 1.00   | 42.00              | -,000.01           |
| Surveyor V                                  |         | 46.16              |       |        |        |                    |                    |
|   |         |                    |       |        |        |                    |                    |
| Quality Control Specialist                  | Regular | 47.04              |       |        |        | _                  | _                  |
| Site Safety Officer                         | Regular | 47.04              |       |        |        | _                  | _                  |
| UXO Supervisor/Tech VI                      | Regular | 53.29              |       |        |        | -                  | _                  |
| UXO Supervisor/Tech V                       | Regular | 47.04              |       |        |        | -                  | _                  |
| UXO Technician IV                           | Regular | 40.49              |       |        |        | -                  | _                  |
| UXO Technician III                          | Regular | 34.10              |       |        |        | -                  | _                  |
| Laborer II                                  | Regular | 28.65              |       |        |        | •                  | _                  |
|   |         |                    |       |        |        | 168.00             | 11,254.53          |
| Subtotal - Labo                             | or .    |                    |       |        |        | 100:00             | 11,20              |
|   |         |                    |       |        |        |                    |                    |
|   |         | Loaded             |       | Number | Number |                    |                    |
| Other Direct Costs                          |         | Rate               |       | Weeks  | Units  |                    | Amount             |
|   |         | 25.69              |       |        |        |                    | -                  |
| FM Radio, Handheld w/ charger               |         | 44.97              |       |        |        |                    | -                  |
| FM Radio Repeater/Base Station              |         | 64.24              |       |        |        |                    | -                  |
| Cellular Telephone and Service              |         | 32.12              |       |        |        |                    | •                  |
| Video Camera                                |         | 96.36              |       |        |        |                    | -                  |
| Computer                                    | =       | 96.36              |       |        |        |                    | •                  |
| Brushoutter, power                          |         | 64.24              |       |        |        |                    | -                  |
| Chainsaw                                    |         | 51.39              |       |        |        |                    | -                  |
| EOD Demolition Kit                          |         | 385.43             |       |        |        |                    | -                  |
| Foester Ferrex Ordnance Locator             |         | 51.39              |       |        |        |                    | -                  |
| Schonstedt Magnetic Locator                 |         | 44.97              |       |        |        |                    | -                  |
| Explosive Storage magazine                  |         | 899.35             |       |        |        |                    | -                  |
| Carrier Phase GPS                           |         | 64.24              |       |        |        |                    | -                  |
| Surveyor's Kit                              |         | 835.11             |       |        |        |                    | -                  |
| Total Station Survey Equipment              |         | 321.20             |       |        |        |                    | -                  |
| Ford Explorer                               |         | 449.67             |       |        |        |                    |                    |
| Pickup, 4x4, 3/4 Ton                        |         | 1,220.54           |       |        |        |                    | •                  |
| Air Fare - Round Trip                       |         | 0.40               |       |        |        |                    | -                  |
| Mileage                                     |         | 1.74               |       |        |        |                    | -                  |
| Fuel  |         | 68.09              |       |        |        |                    | -                  |
| Lodging                                     |         | 38.55              |       |        |        |                    | -                  |
| Meals and incidentals                       |         | 192.72             |       |        |        |                    | -                  |
| Project Consumables                         |         | 205.56             |       | 1.0    | 0 2.00 |                    | 411.12             |
| Printing and Binding                        |         | 154.17             |       |        |        |                    | -                  |
| Shipping                                    |         | 963.59             |       |        |        |                    | -                  |
| Site Trailer                                |         | 1,927.17           |       |        |        |                    | -                  |
| Electrical Hook Up                          |         | 899.35             |       |        |        |                    | •                  |
| Magazine Fencing                            |         | 770.87             |       |        |        |                    | -                  |
| Magazine Mobilization                       |         | 1,541.74           |       |        |        |                    | -                  |
| Donor Explosives Subtotal - Other Direct Co | sts     |                    |       |        |        |                    | 411.12             |
| Daniela, - Other Prest of                   |         |                    |       |        |        |                    |                    |
| Total Estimated Co                          | sts     |                    |       |        |        |                    | 11, <b>66</b> 5.65 |
|   |         |                    |       |        |        |                    |                    |

Task 10

| Labor Category                 |         | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>House | Amount |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|
| Program Management I           |         | 82.05                    |                      |                 |                  | -                  | -      |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  | -      |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  | -      |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | •                  | •      |
| Ingineer II                    |         | 76.92                    |                      |                 |                  | -                  | -      |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | -                  | -      |
| Surveyor V                     |         | 46.16                    |                      |                 |                  |                    |        |
| ouveyor v                      |         |                          |                      |                 | _                |                    |        |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | -                  | -      |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | •                  | •      |
| JXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | -                  | -      |
| JXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | •                  | -      |
| JXO Technician IV              | Regular | 40.49                    |                      |                 |                  | -                  | -      |
| JXO Technician III             | Regular | 34.10                    |                      |                 |                  | •                  | -      |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | -                  | -      |
|                                |         |                          |                      |                 |                  | <u>.</u>           |        |

| Subtotal - Labor                |          |        |        |        |
|---------------------------------|----------|--------|--------|--------|
|                                 |          |        |        |        |
|                                 | Loaded   | Number | Number |        |
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount |
| FM Radio, Handheid w/ charger   | 25.69    |        |        | •      |
| FM Radio Repeater/Base Station  | 44.97    |        |        | -      |
| Cellular Telephone and Service  | 64.24    |        |        | •      |
| Video Camera                    | 32.12    |        |        | -      |
| Computer                        | 96.36    |        |        | •      |
| Brushcutter, power              | 96.36    |        | ł      | -      |
| Chainsaw                        | 64.24    |        |        | -      |
| EOD Demolition Kit              | 51.39    |        |        | •      |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | -      |
| Schonstedt Magnetic Locator     | 51.39    |        |        | -      |
| Explosive Storage magazine      | 44.97    |        |        | -      |
| Carrier Phase GPS               | 899.35   |        |        | -      |
| Surveyor's Kit                  | 64.24    |        |        | •      |
| Total Station Survey Equipment  | 835.11   |        |        | -      |
| Ford Explorer                   | 321.20   |        |        | •      |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | -      |
| Air Fare - Round Trip           | 1,220.54 |        |        | •      |
| Mileage                         | 0.40     |        | :      | •      |
| Fuel                            | 1.74     | i      |        | •      |
| Lodging                         | 68.09    |        |        | •      |
| Meals and Incidentals           | 38.55    |        |        | •      |
| Project Consumables             | 192.72   |        |        |        |
| Printing and Binding            | 205.56   |        |        |        |
| Shipping                        | 154,17   |        |        |        |
| Site Trailer                    | 963.59   |        |        |        |
| Electrical Hook Up              | 1,927.17 |        |        |        |
| Magazine Fencing                | 899.35   |        |        |        |
| Magazine Mobilization           | 770.67   |        |        |        |
| Donor Explosives                | 1,541.74 |        |        |        |
| Subtotal - Other Direct Costs   |          |        |        |        |
|                                 |          |        |        |        |
| Total Estimated Costs           |          |        |        |        |

# SECTION G-4 COST ESTIMATE FOR THE POND AREA

SELECTED REMOVAL ALTERNATIVE

#### **Pond Area**

## Alternative 8 - Surface and Subsurface OE Clearance of Entire Area to a Depth of Four Feet

Alternative 8 requires a complete OE surface and subsurface clearance of 25.23 acres to a depth of four feet. The work schedule is based on working four 10-hour days per work week. Because the surface clearance will be performed concurrently with the subsurface clearance, the cost for the surface clearance is included in the subsurface costs. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are considered moderate in the pond area. It is assumed that 40% of the total grids will require brush clearance. During the Engineering Design effort, 2.47 acres of the pond area were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for this effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. Because of the limited effort required to conduct OE removal at this site, a site visit has been determined unnecessary and is omitted from this cost estimate. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance

Search Grid Size: 100' X 100'

25.23 acres/110 (100' X100') search grids

2.47/11 grids

22.76 acres

99 grids

40 grids/9.18 acres

.22 acres per grid

#### **Production Rates:**

Brush Clearance

Land Survey

Surface Clearance

5 grids per day per four man team (one team)

14 grids per day per two person team (1 team)

5.45 grids per day (1.25 acres) per 5 person team (two teams @ 10.9

grids per workday)

#### Duration:

Project Management

Land Survey

Brush Clearance

20 working days/4.5 weeks

8 working days/2 weeks (one team)

8 working days/2 weeks -- 5 grids per work day per four-person

team (one team)

Subsurface Clearance

Disposal

Quality Control

10 working days/2.5 weeks (two teams)

Effort included in Surface Clearance

10 working days/2.5 weeks (2 person team)

Total Duration 20 Working Days/ 4.5 weeks

# OE Surface Clearance/Subsurface Clearance To A Depth of Four Feet - Alternative 8

|         |   | Summary   |                 |   |   |  |
|---------|---|---|-----------------|---|---|--|
|         | Loaded<br>Hourly<br>Rate                            | Hours<br>per<br>Week  | Namber<br>Weeks | Number<br>People  | Batimated<br>House  | Amount   |
|         | 82.06   |   |                 |   | 31,50   | 2,584.69   |
|         | 76.92   |   |                 |   | 189.00  | 14,537.88  |
|         | 66.67   |   |                 |   | 168.00  | 11,200.56  |
|         | 74.81   |   |                 |   | 16.00   | 1,196.96   |
|         | 76.92   |   |                 |   | 63.00   | 4,845.96   |
|         | 56.42   |   |                 |   | 151.20  | 8,530.70   |
|         | 46.16   |   |                 |   | 84.00   | 3,877.44   |
|         |   |   |                 |   |   |  |
| Regular | 47.04   |   |                 |   | 180.00  | 8,467.20   |
| Regular | 47.04   |   |                 |   | 180.00  | 8,467.20   |
| Regular | 53.29   |   |                 |   | 240.00  | 12,789.60  |
| Regular | 47.04   |   |                 |   | 200.00  | 9,408.00   |
| Regular | 40.49   |   |                 |   | 900.00  | 36,441.00  |
| Regular | 34.10   |   |                 |   | 260.00  | 8,866.00   |
| Regular | 28.65   |   |                 |   | 240.00  | 6,876.00   |
| l char  |   |   |                 |   | 2 902 70  | 138,089,39   |
|         | Regular<br>Regular<br>Regular<br>Regular<br>Regular | Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 48.65 | Heurly   Per    | Rate Week Weeks  82.06 76.92 66.67 74.81 75.92 56.42 46.16  Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 47.04 Regular 48.49 Regular 49.49 Regular 28.65 | Hearly   Per   Number   Number   Rate   Week   Weeks   People | Hourly Rate   Week   Weeks   People   Hours     82.05   76.92   189.00     66.67   74.81   16.00     75.92   63.00     56.42   46.16   189.00     Regular   47.04   47.04     Regular   47.04   180.00     Regular   47.04   240.00     Regular   47.04   200.00     Regular   40.49   Regular   34.10     Regular   28.65   200.00     Regul |

|                                 | Loaded   | Number | Number | <u>.</u>   |
|---------------------------------|----------|--------|--------|------------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    |        |        | 398.20     |
| FM Radio Repeater/Base Station  | 44.97    |        |        | 809.46     |
| Cellular Telephone and Service  | 64,24    |        |        | 289.08     |
| Video Camera                    | 32.12    |        |        | 144.54     |
| Computer                        | 96.36    |        |        | 722.70     |
| Brushcutter, power              | 96.36    |        |        | 385.44     |
| Chainsaw                        | 64.24    |        |        | 256,96     |
| EOD Demolition Kit              | 51.39    |        |        | 128.48     |
| Foester Ferrex Ordnaπce Locator | 385.43   |        |        | -          |
| Schonstedt Magnetic Locator     | 51.39    |        |        | 2,004.21   |
| Explosive Storage magazine      | 44.97    |        |        | 607.10     |
| Carrier Phase GPS               | 899.35   |        |        | 899.35     |
| Surveyor's Kit                  | 64.24    |        |        | 128.48     |
| Total Station Survey Equipment  | B35.11   |        |        | 1,670.22   |
| Ford Explorer                   | 321.20   |        |        | 6,745.20   |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | 1,011.76   |
| Air Fare - Round Trip           | 1,220.54 |        |        | 22,579.99  |
| Mileage                         | 0.40     |        |        | 943.00     |
| Fuel                            | 1.74     |        |        | 1,322.40   |
| Lodging                         | 68.09    |        |        | 21,039.82  |
| Meals and Incidentals           | 38.55    |        |        | 12,548.03  |
| Project Consumables             | 192.72   |        |        | 4,239.84   |
| Printing and Binding            | 205.56   |        |        | 1,438.92   |
| Shipping                        | 154.17   |        |        | 616.68     |
| Site Trailer                    | 963.59   |        |        | 1,445.39   |
| Electrical Hook Up              | 1,927.17 |        |        | 1,927.17   |
| Magazine Fencing                | 899.35   |        |        | 899.35     |
| Magazine Mobilization           | 770.87   |        |        | 770.87     |
| Donor Explosives                | 1,541.74 |        |        | 1,349.02   |
| Site Remediation                | 300.00   |        |        | 300.00     |
| Subtotal - Other Direct Costs   |          |        |        | 87,621.66  |
|                                 |          |        |        |            |
| Total Estimated Costs           |          |        |        | 225,711.05 |
|                                 |          |        |        |            |

Tack 1 Site Visit

|                                |         |                          |                      | COLUMN T ABOVE  |                  |                    |        |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|--|
| Labor Category                 |         | Landed<br>Hearly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |  |
| Program Management I           |         | 82.06                    |                      | -               |                  | •                  | -      |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  | •      |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  | -      |  |
| Certified Industrial Hygienist |         | 74,61                    |                      |                 |                  | -                  | -      |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  | -                  | -      |  |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | •                  | •      |  |
| Surveyor V                     |         | 46,16                    |                      |                 |                  | _                  | -      |  |
|                                |         |                          |                      |                 |                  |                    |        |  |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | -                  | -      |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | •                  | -      |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | -                  | -      |  |
| UXO Supervisor/Tech V          | Regular | 47,04                    |                      |                 |                  | -                  | -      |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | -                  | •      |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | -                  | -      |  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | -                  | •      |  |
|                                |         |                          |                      |                 |                  |                    | -      |  |
| Subtotal - L                   | abor    |                          |                      |                 |                  |                    | -      |  |

|                                 | Loaded   | Number Number |        |
|---------------------------------|----------|---------------|--------|
| Other Direct Costs              | Rate     | Weeks Units   | Amount |
| FM Radio, Handheld w/ charger   | 25.69    |               | -      |
| FM Radio Repeater/Base Station  | 44.97    |               | •      |
| Cellular Telephone and Service  | 64.24    |               |        |
| Video Camera                    | 32.12    |               |        |
| Computer                        | 96.36    |               |        |
| Brushcutter, power              | 96.36    |               |        |
| Chainsaw                        | 64.24    |               |        |
| EOD Demolition Kit              | 51.39    |               |        |
| Foester Ferrex Ordnance Locator | 385.43   |               |        |
| Schonstedt Magnetic Locator     | 51.39    |               |        |
| Explosive Storage magazine      | 44.97    |               |        |
| Carrier Phase GPS               | 899.35   |               |        |
| Surveyor's Kit                  | 64.24    |               |        |
| Total Station Survey Equipment  | 835.11   |               |        |
| Ford Explorer                   | 321.20   |               |        |
| Pickup, 4x4, 3/4 Ton            | 449.67   |               |        |
| Air Fare - Round Trip           | 1,220.54 |               |        |
| Mileage                         | 0.40     |               |        |
| Fue)                            | 1.74     |               |        |
| Lodging                         | 68.09    |               |        |
| Meals and incidentals           | 38.55    |               |        |
| Project Consumables             | 192.72   |               |        |
| Printing and Binding            | 205.56   |               |        |
| Shipping                        | 154.17   | ·             |        |
| Site Trailer                    | 963.59   |               |        |
| Electrical Hook Up              | 1,927.17 |               |        |
| Magazine Fencing                | 899.35   |               |        |
| Magazine Mobilization           | 770.67   |               |        |
| Donor Explosives                | 1,541.74 |               |        |
| Site Remediation                | 300.00   |               |        |
| Subtotal - Other Direct Costs   |          |               |        |
| Total Estimated Costs           |          |               |        |
| Section of the second           |          |               |        |

Tash 2 Work Plan

|  |         |                     |             |        | W                | orh Plan  |           |
|--|---------|---------------------|-------------|--------|------------------|-----------|-----------|
|  |         | Loaded              | Hours       | S      | N I              | Estimated |           |
|  |         | Hourly<br>Rate      | per<br>Week | Weeks  | Number<br>People | Hours     | Amount    |
| Labor Category                                   |         | 82.06               | 42.00       | 0.50   | 1.00             | 21.00     | 1,723,26  |
| Program Management I                             |         | 76.92               | 42.00       | 0.50   | 1.00             | -         | 1,720.20  |
| Project Manager III                              |         | 66.67               | 42.00       | 2.00   | 1.00             | 84.00     | 5,600.28  |
| Project Manager II                               |         | 74.81               | 40.00       | 0.40   | 1.00             | 16.00     | 1,196.96  |
| Certified Industrial Hygienist                   |         | 76.92               | 42.00       | 0.50   | 1.00             | 21.00     | 1,615.32  |
| Engineer It<br>Survey Manager                    |         | 56.42               | 42.00       | 0.80   | 1.00             | 33,60     | 1,695.71  |
| Surveyor V                                       |         | 46,16               | 72,44       | 5.55   |                  | -         | -         |
| Salveyor v                                       |         | 15,10               |             | •      |                  |           |           |
| Quality Control Specialist                       | Regular | 47.04               |             |        |                  | -         |           |
| Site Safety Officer                              | Regular | 47.04               |             |        |                  | -         | -         |
| UXO Supervisor/Tech VI                           | Regular | 53.29               | 40.00       | 1,00   | 1.00             | 40.00     | 2,131.60  |
| UXO Supervisor/Tech V                            | Regular | 47.04               |             |        |                  | -         | -         |
| UXO Technician IV                                | Regular | 40.49               |             |        |                  | •         | -         |
| UXO Technician III                               | Regular | 34,10               |             |        |                  | -         | -         |
| Laborer II                                       | Regular | 28.65               |             |        |                  | -         | -         |
|  |         |                     |             |        |                  |           |           |
| Subtotal - Labo                                  | г       |                     |             |        |                  | 215.60    | 14,163.13 |
|  |         |                     |             |        |                  |           | _         |
|  |         |                     |             |        |                  |           |           |
|  |         | Loaded              |             | Number |                  |           |           |
| Other Direct Costs                               |         | Rate                |             | Weeks  | Units            |           | Amount    |
| FM Radio, Handheld w/ charger                    |         | 25.69               |             |        |                  |           | •         |
| FM Radio Repeater/Base Station                   |         | 44.97               |             |        |                  |           | -         |
| Callular Telephone and Service                   |         | 64.24               |             |        |                  |           | -         |
| Video Camera                                     |         | 32.12               |             |        |                  |           |           |
| Computer   |         | 96.36               |             | 1.00   | 1.00             |           | 96.35     |
| Brushcutter, power                               |         | 96.36               |             |        |                  |           | -         |
| Chainsaw   |         | 64.24               |             |        |                  |           | -         |
| EOD Demolition Kit                               |         | 51.39               |             |        |                  |           | _         |
| Foester Ferrex Ordnance Locator                  |         | 385.43              |             |        | ·                |           | •         |
| Schonstedt Magnetic Locator                      |         | 51,39               |             |        |                  |           | -         |
| Explosive Storage magazine                       |         | 44.97               |             |        |                  |           | -         |
| Carrier Phase GPS                                |         | 899.35              |             |        |                  |           |           |
| Surveyor's Kit                                   |         | 64.24               |             |        |                  |           | •         |
| Total Station Survey Equipment                   |         | 835.11<br>321.20    |             | 1.00   | 1.00             |           | 321.20    |
| Ford Explorer<br>Pickup, 4x4, 3/4 Ton            |         | 449. <del>6</del> 7 |             | 1.00   | 1.00             |           | 321.20    |
| Air Fare - Round Trip                            |         | 1,220.54            |             | 1.00   | 1.00             |           | 1,220.54  |
| Mileage  |         | 0.40                |             | 50.00  | 1.00             |           | 20.00     |
| Fuel   |         | 1.74                |             | 1.00   | 40.00            |           | 69.60     |
| Lodging  |         | 68.09               |             | 6.00   | 1.00             |           | 408.54    |
| Meals and Incidentals                            |         | 38.55               |             | 7.00   | 1.00             |           | 269.85    |
| Project Consumables                              |         | 192.72              |             | 8.00   | 1.00             |           | 1,541.76  |
| Printing and Binding                             |         | 205.56              |             | 1.00   | 2.00             |           | 411.12    |
| Shipping   |         | 154.17              |             | ļ      |                  |           |           |
| Site Trailer                                     |         | 963,59              |             |        |                  |           | -         |
| Electrical Hook Up                               |         | 1,927.17            |             |        |                  |           | -         |
| Magazine Fencing                                 |         | 899.35              |             |        |                  |           | -         |
| Magazine Mobilization                            |         | 770.87              |             |        |                  |           | -         |
| Donor Explosives                                 |         | 1,541.74            |             |        |                  |           | -         |
| Site Remediation                                 |         | 300.00              |             |        |                  |           |           |
| Subtotal - Other Direct Cost                     | 3       |                     |             |        |                  |           | 4,358.97  |
|  |         |                     |             |        |                  |           |           |
| Total Estimated Cost                             | s       |                     |             |        |                  |           | 18,522.10 |
| 22 W 2 E - S - C - C - C - C - C - C - C - C - C |         |                     |             |        |                  |           |           |

| Engineering Design Cost Estimate |         |                          |                      |                           |                  |                    |           |  |
|----------------------------------|---------|--------------------------|----------------------|---------------------------|------------------|--------------------|-----------|--|
| Pond Are                         | а       |                          |                      | Task 3<br>Sile Management |                  |                    |           |  |
| Laber Category                   |         | Landed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks           | Number<br>People | Estimated<br>Hours | Amount    |  |
| Program Management I             |         | 82.06                    |                      | •••                       |                  | -                  | •         |  |
| Project Manager III              |         | 76.92                    | 42.00                | 4.50                      | 1.00             | 189.00             | 14,537.88 |  |
| Project Manager II               |         | 66.67                    |                      |                           |                  | -                  | -         |  |
| Certified Industrial Hygienist   |         | 74.81                    |                      |                           |                  | -                  | -         |  |
| Engineer II                      |         | 76.92                    |                      |                           |                  | -                  | -         |  |
| Survey Manager                   |         | 56.42                    |                      |                           |                  | -                  | -         |  |
| Surveyor V                       |         | 46.16                    |                      |                           |                  | -                  | -         |  |
|                                  |         |                          |                      |                           |                  |                    |           |  |
| Quality Control Specialist       | Regular | 47.04                    |                      |                           |                  | -                  | -         |  |
| Site Safety Officer              | Regular | 47.04                    | 40.00                | 4.50                      | 1.00             | 180.00             | 8,467.20  |  |
| UXO Supervisor/Tech VI           | Regular | 53.29                    | 40.00                | 4.50                      | 1.00             | 180.00             | 9,592.20  |  |
| UXO Supervisor/Tech V            | Regular | 47.04                    |                      |                           |                  | -                  | -         |  |
| UXO Technician IV                | Regular | 40.49                    |                      |                           |                  | -                  | -         |  |
| UXO Technician III               | Regular | 34.10                    |                      |                           |                  | -                  | -         |  |
| Laborer II                       | Regular | 28.65                    |                      |                           |                  | -                  | -         |  |
|                                  |         |                          |                      |                           |                  |                    |           |  |
| Subtotal - Lab                   | or      |                          |                      |                           |                  | 549.00             | 32,597.28 |  |
|                                  |         |                          |                      |                           |                  |                    |           |  |
|                                  |         | Loaded                   |                      | Number                    | Number           |                    |           |  |
| Other Direct Costs               |         | Rate                     |                      | Weeks                     | Units            |                    | Amount    |  |
| FM Radio, Handheld w/ charger    |         | 25.69                    |                      |                           |                  |                    | -         |  |
| FM Radio Repeater/Base Station   |         | 44.97                    |                      | 4.50                      | 4.00             |                    | 809.46    |  |
| Cellular Telephone and Service   |         | 64.24                    |                      | 4.50                      | 1.00             |                    | 289.08    |  |
| Video Camera                     |         | 32.12                    |                      | 4.50                      | 1.00             |                    | 144.54    |  |
| Computer                         |         | 96.36                    |                      | 4.50                      | 1.00             |                    | 433.62    |  |
| Brushcutter, power               |         | 96.36                    |                      |                           |                  |                    | -         |  |
| Chainsaw                         |         | 64.24                    |                      |                           |                  |                    | -         |  |
| EOD Demolition Kit               |         | 51.39                    |                      |                           |                  |                    | -         |  |

| Other Direct Costs   | 17010         | *****    | 0,1110 |           |
|--|---------------|----------|--------|-----------|
| FM Radio, Handheld w/ charger  | 25.69         |          |        | -         |
| FM Radio Repeater/Base Station   | 44.97         | 4.50     | 4.00   | 809.46    |
| Cellular Telephone and Service   | 64.24         | 4.50     | 1.00   | 289.08    |
| Video Camera   | 32.12         | 4.50     | 1.00   | 144.54    |
| Computer   | 96.36         | 4.50     | 1.00   | 433.62    |
| Brushoutter, power   | 96.36         |          |        | -         |
| Chainsaw   | 64.24         |          |        | -         |
| EOD Demolition Kit   | 51.39         |          |        | -         |
| Foester Ferrex Ordnance Locator  | 385.43        |          |        | -         |
| Schonstedt Magnetic Locator  | 51.3 <b>9</b> |          |        | -         |
| Explosive Storage magazine   | 44.97         | 4.50     | 3.00   | 607.10    |
| Carrier Phase GPS  | 899.35        |          |        | +         |
| Surveyor's Kit   | 64.24         |          |        | -         |
| Total Station Survey Equipment   | 835.11        |          |        | •         |
| Ford Explorer  | 321.20        | 4.50     | 3.00   | 4,336.20  |
| Pickup, 4x4, 3/4 Ton   | 449.67        |          |        | -         |
| Air Fare - Round Trip  | 1,220.54      | 4.50     | 3.00   | 16,477.29 |
| Mileage  | 0.40          | 2,000.00 | 1.00   | 800.00    |
| Fuel   | 1.74          | 384.00   | 1.00   | 668.16    |
| Lodging  | 68.09         | 21.00    | 4.50   | 6,434.51  |
| Meals and incidentals  | 38.55         | 22.00    | 4.50   | 3,816.45  |
| Project Consumables  | 192.72        | 4.50     | 1.00   | 867.24    |
| Printing and Binding   | 205.56        | 2.00     | 1.00   | 411.12    |
| Shipping   | 154.17        | 1.00     | 3.00   | 462.51    |
| Site Trailer   | 963.59        | 1.50     | 1.00   | 1,445.39  |
| Electrical Hook Up   | 1,927.17      | 1.00     | 1.00   | 1,927.17  |
| Magazine Fencing   | 899.35        | 1.00     | 1.00   | 899.35    |
| Magazine Mobilization  | 770.87        | 1.00     | 1.00   | 770.87    |
| Donor Explosives   | 1,541.74      |          |        | -         |
| Site Remediation   | 300.00        |          |        | -         |
| Subtotal - Other Direct Costs  |               |          |        | 41,600.06 |
|  |               |          |        | 74,457.64 |
| Total Estimated Costs  |               | 1        |        | 74,197.34 |
| Control of the second of the s | \$ .          |          |        |           |

| Engineering Design Cost Estimate Pond Area |         |                          | Tash à               |                 |                  |                    |          |  |  |  |  |
|--|---------|--------------------------|----------------------|-----------------|------------------|--------------------|----------|--|--|--|--|
|  |         |                          |                      |                 | Land Spreey      |                    |          |  |  |  |  |
| Labor Category                             |         | Londed<br>Hourly<br>Rate | Heurs<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |  |  |  |  |
| Program Management I                       |         | 82.06                    |                      |                 |                  | -                  | -        |  |  |  |  |
| Project Manager III                        |         | 76.92                    |                      |                 |                  | •                  | -        |  |  |  |  |
| Project Manager II                         |         | 66.67                    |                      |                 |                  | -                  | -        |  |  |  |  |
| Certified Industrial Hygienist             |         | 74.81                    |                      |                 |                  | -                  | -        |  |  |  |  |
| Engineer II                                |         | 76.92                    |                      |                 |                  | -                  | -        |  |  |  |  |
| Survey Manager                             |         | 56.42                    | 42.00                | 0.80            | 1.00             | 33.60              | 1,895.71 |  |  |  |  |
| Surveyor V                                 |         | 46.16                    | 42.00                | 2.00            | 1.00             | 84.00              | 3,877.44 |  |  |  |  |
|  |         |                          |                      |                 |                  |                    |          |  |  |  |  |
| Quality Control Specialist                 | Regular | 47.04                    |                      |                 |                  | -                  | -        |  |  |  |  |
| Site Safety Officer                        | Regular | 47.04                    |                      |                 |                  | -                  | -        |  |  |  |  |
| UXO Supervisor/Tech VI                     | Regular | 53.29                    |                      |                 |                  | -                  | •        |  |  |  |  |
| UXO Supervisor/Tech V                      | Regular | 47.04                    |                      |                 |                  | -                  | -        |  |  |  |  |
| UXO Technician IV                          | Regular | 40.49                    |                      |                 |                  | -                  | -        |  |  |  |  |
| UXO Technician III                         | Regular | 34.10                    | 40.00                | 2.00            | 1.00             | 80.00              | 2,728.00 |  |  |  |  |
| Laborer II                                 | Regular | 28,65                    |                      |                 |                  |                    | -        |  |  |  |  |

| Subtatal Labor  |          |        |        | 197.60 | 8,501.15  |
|---|----------|--------|--------|--------|-----------|
| Şubtotal - Labor  |          |        |        | 107.00 | 0,00110   |
|   |          |        |        |        |           |
|   | Loaded   | Number | Number |        |           |
| Other Direct Costs  | Rate     | Weeks  | Units  |        | Amount    |
|   | 25,69    | 2.00   | 2.00   |        | 102.76    |
| FM Radio, Handheld w/ charger<br>FM Radio Repeater/Base Station | 44.97    | 2.00   |        |        | -         |
|   | 64,24    |        |        |        |           |
| Cellular Telephone and Service Video Camera                     | 32.12    |        |        |        | _         |
|   | 96.36    | 2,00   | 1.00   |        | 192.72    |
| Computer Payer  | 96.36    | 2.50   | 1.55   |        | -         |
| Brushcutter, power<br>Chainsaw                                  | 64.24    |        |        |        | _         |
| EOD Demolition Kit  | 51.39    |        |        |        |           |
| Foester Ferrex Ordnance Locator                                 | 385.43   |        |        |        | _         |
| Schonstedt Magnetic Locator                                     | 51.39    | 2,00   | 1,00   |        | 102.78    |
| Explosive Storage magazine                                      | 44.97    | _,,,   |        |        | _         |
| Carrier Phase GPS   | 899.35   | 0.50   | 2.00   |        | 899.35    |
| Surveyor's Kit  | 64.24    | 2.00   | 1.00   |        | 128.48    |
| Total Station Survey Equipment                                  | 835.11   | 2.00   | 1.00   |        | 1,670.22  |
| Ford Explorer   | 321.20   | 2.00   | 1.00   |        | 642.40    |
| Pickup, 4x4, 3/4 Ton  | 449.67   |        |        |        | -         |
| Alr Fare - Round Trip   | 1,220.54 | 1,00   | 2.00   |        | 2,441.08  |
| Mileage   | 0.40     | 50.00  | 2.00   |        | 40.00     |
| Fuel  | 1.74     | 32.00  | 2.00   |        | 111.36    |
| Lodging   | 68.09    | 14.00  | 2.00   |        | 1,908.52  |
| Meals and Incidentals   | 38.55    | 15.00  | 2.00   |        | 1,156.50  |
| Project Consumables   | 192.72   | 2.00   | 1.00   |        | 385.44    |
| Printing and Binding  | 205.56   | 1.00   | 1.00   |        | 205.56    |
| Shipping  | 154.17   | 1.00   | 1.00   |        | 154.17    |
| Site Trailer  | 963.59   |        |        |        | -         |
| Electrical Hook Up  | 1,927.17 |        |        |        | -         |
| Magazine Fencing  | 899.35   |        |        |        | -         |
| Magazine Mobilization   | 770.87   |        |        |        | •         |
| Donor Explosives  | 1,541.74 |        |        |        | -         |
| Site Remediation  | 300.00   |        |        |        | •         |
| Subtotal - Other Direct Costs                                   |          |        |        |        | 10,139.34 |
|   |          |        |        |        |           |
| Total Estimated Costs   |          |        |        |        | 18,640.49 |

Task 5 Brusk Clearance

| Folia Alda                               |                  |                  | Brush Clearance |                |              |           |                    |  |  |
|--|------------------|------------------|-----------------|----------------|--------------|-----------|--------------------|--|--|
|  |                  | Loaded<br>Hourly | Hours<br>per    |                | Number       | Estimated |                    |  |  |
| Labor Category                           |                  | Rate             | Week            | Week           | People       | Hours     | Amount             |  |  |
| Program Management I                     |                  | 82.06            |                 |                |              | -         | -                  |  |  |
| Project Manager III                      |                  | 76.92            |                 |                |              | -         | -                  |  |  |
| Project Manager II                       |                  | 66.67            |                 |                |              | -         | -                  |  |  |
| Certified Industrial Hygienist           |                  | 74.81            |                 |                |              | -         | -                  |  |  |
| Engineer II                              |                  | 76.92            |                 |                |              | •         | •                  |  |  |
| Survey Manager                           |                  | 56.42            |                 |                |              | -         | -                  |  |  |
| Surveyor V                               |                  | 46.16            |                 |                |              | -         | -                  |  |  |
| Quality Control Specialist               | Regular          | 47.04            | ·               |                |              | _         |                    |  |  |
| Site Safety Officer                      | Regular          | 47.04            |                 |                |              | -         | -                  |  |  |
| UXO Supervisor/Tech VI                   | Regular          | 53.29            |                 |                |              | -         | -                  |  |  |
| UXO Supervisor/Tech V                    | Regular          | 47.04            |                 |                |              | _         | -                  |  |  |
| UXO Technician IV                        | Regular          | 40.49            | 40.00           | 2.00           | 1.00         | 80.00     | 3,239.20           |  |  |
| UXO Technician III                       | Regular          | 34.10            |                 |                |              | -         | -                  |  |  |
| Laborer II                               | Regular          | 28.65            | 40.00           | 2.00           | 3.00         | 240.00    | 6,876.00           |  |  |
|  |                  |                  |                 |                |              | •         |                    |  |  |
| Subtotal - Labo                          | r                |                  |                 |                |              | 320.00    | 10,115.20          |  |  |
|  |                  |                  |                 |                |              |           |                    |  |  |
|  |                  | Loaded           |                 | Number         | Number       |           |                    |  |  |
| Other Direct Costs                       |                  | Rate             |                 | Weeks          | Units        |           | Amount             |  |  |
| FM Radio, Handheld w/ charger            |                  | 25.69            |                 | 2.00           | 1.00         |           | 51.38              |  |  |
| FM Radio Repeater/Base Station           |                  | 44.97            |                 |                |              |           | -                  |  |  |
| Cellular Telephone and Service           |                  | 64.24            |                 |                |              |           | -                  |  |  |
| Video Camera                             |                  | 32.12            |                 |                |              |           | -                  |  |  |
| Computer                                 |                  | 96,36            |                 |                |              |           | •                  |  |  |
| Brushcutter, power                       |                  | 96.36            |                 | 2.00           | 2.00         |           | 385.44             |  |  |
| Chainsaw                                 |                  | 64.24            |                 | 2.00           | 2.00         |           | 256.96             |  |  |
| EOD Demolition Kit                       | :                | 51.39            |                 |                |              |           | •                  |  |  |
| Foester Ferrex Ordnance Locator          |                  | 385,43           |                 |                |              |           |                    |  |  |
| Schonstedt Magnetic Locator              |                  | 51.39            |                 | 2.00           | 4.00         |           | 411.12             |  |  |
| Explosive Storage magazine               |                  | 44.97            |                 |                |              |           | •                  |  |  |
| Carrier Phase GPS                        |                  | 899.35           |                 |                |              |           | -                  |  |  |
| Surveyor's Kit                           |                  | 64.24            |                 |                |              |           | -                  |  |  |
| Total Station Survey Equipment           |                  | 635.11           |                 |                |              |           | •                  |  |  |
| Ford Explorer                            |                  | 321.20           |                 |                |              |           |                    |  |  |
| Pickup, 4x4, 3/4 Ton                     |                  | 449.67           |                 | 2.00           | 1.00         |           | 899.34             |  |  |
| Air Fare - Round Trip                    |                  | 1,220.54         |                 |                | 4.55         |           | 20.00              |  |  |
| Mileage                                  |                  | 0.40             |                 | 50.00          | 1,00         |           |                    |  |  |
| Fuel                                     |                  | 1.74             |                 | 32.00          | 2.00         |           | 111.36<br>1,906.52 |  |  |
| Lodging                                  |                  | 68.09            |                 | 14.00<br>15.00 | 2.00<br>2.00 |           | 1,156.50           |  |  |
| Meals and Incidentals                    |                  | 38.55<br>192.72  |                 | 2.00           | 1.00         |           | 385.44             |  |  |
| Project Consumables Printing and Binding |                  | 205.56           |                 | 2.00           | 1.00         |           |                    |  |  |
|  |                  | 154.17           |                 |                |              |           |                    |  |  |
| Shipping<br>Site Trailer                 |                  | 963.59           |                 |                |              |           |                    |  |  |
| Electrical Hook Up                       |                  | 1,927.17         |                 |                |              |           | i .                |  |  |
| Magazine Fencing                         |                  | 899.35           |                 |                |              |           | i .                |  |  |
| Magazine Mobilization                    |                  | 770.87           |                 |                |              |           | _                  |  |  |
| Donor Explosives                         |                  | 1,541.74         |                 |                |              |           |                    |  |  |
| Site Remediation                         |                  | 300.00           |                 |                |              |           | -                  |  |  |
| Subtotal - Other Direct Cos              | ts               | 300.00           |                 |                |              |           | 5,584.06           |  |  |
|  |                  |                  |                 |                |              |           |                    |  |  |
| Total Estimated Cos                      | ts               |                  |                 |                |              |           | 15,699.26          |  |  |
|  | 7200000000000000 |                  |                 |                |              |           |                    |  |  |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate

Task 6

| Pond Area                       |         |          | Task 6                                 |        |        |           |                            |  |
|---------------------------------|---------|----------|--|--------|--------|-----------|----------------------------|--|
|                                 |         |          | Surface/Subsurface OE Removal - 4 Feet |        |        |           |                            |  |
|                                 |         | Loaded   | Hours                                  |        |        | m . I     |                            |  |
|                                 |         | Hourly   | per                                    |        | Number | Batimated | Amount                     |  |
| Labor Category                  |         | Rate     | Week                                   | Weeks  | People | Hours     | Ameunt                     |  |
| Program Management I            |         | 82.06    |  |        |        | •         | -                          |  |
| Project Manager III             |         | 76.92    |  |        |        | -         | -                          |  |
| Project Manager II              |         | 66.67    |  |        |        | -         | -                          |  |
| Certified Industrial Hygienist  |         | 74.81    |  |        |        | •         | -                          |  |
| Engineer (I                     |         | 76.92    |  |        |        | -         | -                          |  |
| Survey Manager                  |         | 56.42    |  |        |        | -         | •                          |  |
| Surveyor V                      |         | 46.16    |  |        |        | -         | -                          |  |
|                                 |         |          |  |        |        |           |                            |  |
| Quatity Control Specialist      | Regular | 47.04    |  |        |        | -         | -                          |  |
| Site Safety Officer             | Regular | 47.04    |  |        |        | -         | -                          |  |
| UXO Supervisor/Tech VI          | Regular | 53.29    |  |        |        |           |                            |  |
| UXO Supervisor/Tech V           | Regular | 47.04    | 40.00                                  | 2.50   | 2.00   | 200.00    | 9,408.00                   |  |
| UXO Technician IV               | Regular | 40.49    | 40.00                                  | 2.50   | 8.00   | 800.00    | 32,392.00                  |  |
| UXO Technician III              | Regular | 34,10    |  |        |        | -         | -                          |  |
| Laborer II                      | Regular | 28.65    |  |        |        | -         | •                          |  |
| Cubanta) Labo                   |         |          |  |        |        | 1,000.00  | 41,800.00                  |  |
| Şubtotal - Labo                 | ir.     |          |  |        |        | 1,000,00  | 41,000,00                  |  |
|                                 |         |          |  |        |        |           |                            |  |
|                                 |         | Loaded   |  | Number | Number |           |                            |  |
| Other Direct Costs              |         | Rate     |  | Weeks  | Units  |           | Amount                     |  |
| FM Radio, Handheld w/ charger   |         | 25.69    |  | 2.50   | 2.00   |           | 128.45                     |  |
| FM Radio Repeater/Base Station  |         | 44.97    |  |        |        |           | -                          |  |
| Cellular Telephone and Service  |         | 64.24    |  |        |        |           | •                          |  |
| Video Camera                    |         | 32.12    |  |        |        |           | -                          |  |
| Computer                        |         | 96.36    |  |        |        |           | -                          |  |
| Brushcutter, power              |         | 96.36    |  |        |        |           | -                          |  |
| Chainsaw                        |         | 64.24    |  |        |        |           | -                          |  |
| EOD Demolition Kit              |         | 51.39    |  | 2,50   | 1.00   |           | 128.48                     |  |
| Foester Ferrex Ordnance Locator |         | 385.43   |  |        |        |           | -                          |  |
| Schonstedt Magnetic Locator     |         | 51.39    |  | 2.50   | 8.00   |           | 1,027.80                   |  |
| Explosive Storage magazine      |         | 44.97    |  |        |        |           | -                          |  |
| Carrier Phase GPS               |         | 699.35   |  |        |        |           | •                          |  |
| Surveyor's Kit                  |         | 64.24    |  |        |        |           | -                          |  |
| Total Station Survey Equipment  |         | 835.11   |  |        |        |           | -                          |  |
| Ford Explorer                   |         | 321.20   |  |        |        |           | -                          |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67   |  |        |        |           | -                          |  |
| Atr Fare - Round Trip           |         | 1,220.54 |  |        |        |           | -                          |  |
| Mileage                         |         | 0.40     |  |        |        |           | -                          |  |
| Fuel                            |         | 1.74     |  |        |        | 3         | -                          |  |
| Lodging                         |         | 68.09    |  | 35.00  | 2.50   |           | 5,957.88                   |  |
| Meals and incidentals           |         | 38.55    |  | 36.00  | 2.50   |           | 3,469.50                   |  |
| Project Consumables             |         | 192.72   |  |        |        |           | -                          |  |
| Printing and Binding            |         | 205.56   |  |        |        |           | -                          |  |
| Shipping                        |         | 154.17   |  |        |        |           | -                          |  |
| Site Trailer                    |         | 963.59   |  |        |        |           | -                          |  |
| Electrical Hook Up              |         | 1,927.17 |  |        |        |           | •                          |  |
| Magazine Fencing                |         | 899.35   |  |        |        |           | -                          |  |
|                                 |         | 770 97   |  |        |        |           | -                          |  |
| Magazine Mobilization           |         | 770,87   |  |        |        |           |                            |  |
| -                               |         | 1,541.74 |  | 1,25   | 0.70   |           | 1,349.02                   |  |
| Magazine Mobilization           |         |          |  | 1,25   | 0.70   |           | 1,349.02<br>-<br>12,081.13 |  |

Total Estimated Costs

53,861.13

Task 7 Secan Turn-In

| i dia ma                                     |         | Serap Turm-In      |       |        |        |           |                 |  |
|--|---------|--------------------|-------|--------|--------|-----------|-----------------|--|
|  |         | Loaded             | Hours |        |        |           |                 |  |
|  |         | Hourly             | рет   |        | Number | Butimated |                 |  |
| Labor Category                               |         | Rate               | Week  | Weeks  | People | Hours     | Amount          |  |
| Program Management I                         |         | 82.06              |       |        |        | -         | -               |  |
| Project Manager III                          |         | 76.92              |       |        |        | -         | -               |  |
| Project Manager II                           |         | 66.67              |       |        |        | -         | -               |  |
| Certified Industrial Hygienist               |         | 74.81              |       |        |        | •         | -               |  |
| Engineer II                                  |         | 76.92              |       |        |        | -         | -               |  |
| Survey Manager                               |         | 56.42              |       |        |        | •         | -               |  |
| Surveyor V                                   |         | 46.16              |       |        |        | -         | -               |  |
|  |         | 17.04              |       |        |        |           |                 |  |
| Quality Control Specialist                   | Regular | 47.04              |       |        |        | •         | _               |  |
| Site Safety Officer                          | Regular | 47.04              | 40.00 | 0.50   | 1.00   | 20.00     | 1,065.80        |  |
| UXO Supervisor/Tech VI                       | Regular | 53.29              | 40.00 | Ų.SU   | 1.00   | 20.00     | 1,000.00        |  |
| UXO Supervisor/Tech V                        | Regular | 47.04              |       |        | 4.00   | 20.00     | 809.80          |  |
| UXO Technician IV                            | Regular | 40.49              | 40.00 | 0.50   | 1.00   | 20.00     | 00.00           |  |
| UXO Technician III                           | Regular | 34.10              |       |        |        | -         | <u>.</u>        |  |
| Laborer II                                   | Regular | 28.65              |       |        |        | •         | -               |  |
| Subtotal - Labo                              |         |                    |       |        |        | 40.00     | 1,875.60        |  |
| Subiutai - Eapi                              | ,,      |                    |       |        |        |           |                 |  |
|  |         |                    |       |        |        |           |                 |  |
|  |         | Loaded             |       | Number |        |           | _               |  |
| Other Direct Costs                           |         | Rate               |       | Weeks  | Units  |           | Amount          |  |
| FM Radio, Handheld w/ charger                |         | 25.69              |       | İ      |        |           | -               |  |
| FM Radio Repeater/Base Statioπ               |         | 44.97              |       |        |        |           | -               |  |
| Cellular Telephone and Service               |         | 84.24              |       |        |        |           | -               |  |
| Video Camera                                 |         | 32.12              |       |        |        |           | -               |  |
| Computer                                     |         | 96.36              |       |        |        |           | -               |  |
| Brushcutter, power                           |         | 96.36              |       |        |        |           | -               |  |
| Chainsaw                                     |         | 64.24              |       |        |        |           | -               |  |
| EOD Demolition Kit                           |         | 51.39              |       |        |        |           | -               |  |
| Foester Ferrex Ordnance Locator              |         | 385.43             |       |        |        |           | -               |  |
| Schonstedt Magnetic Locator                  |         | 51.39              |       |        |        |           | -               |  |
| Explosive Storage magazine                   |         | 44.97              |       |        |        |           | •               |  |
| Carrier Phase GPS                            |         | 899.35             |       |        |        |           | -               |  |
| Surveyor's Kit                               |         | 64.24              |       |        |        |           | -               |  |
| Total Station Survey Equipment               |         | 835.11             |       |        |        |           | •               |  |
| Ford Explorer                                |         | 321.20             |       |        |        |           | 440.40          |  |
| Pickup, 4x4, 3/4 Ton                         |         | 449.67             |       | 1.00   | 0.25   |           | 112.42          |  |
| Air Fare - Round Trip                        |         | 1,220.54           |       |        |        |           | -               |  |
| Mileage                                      |         | 0.40               | :     |        | 4.00   |           | 420.20          |  |
| Fuel   |         | 1.74               |       | 80.00  | 1.00   |           | 139.20          |  |
| Lodging                                      |         | 68.09              |       | 1.00   |        |           | 136.16<br>77.10 |  |
| Meals and Incidentals                        |         | 38.55              |       | 1.00   |        |           | 192.72          |  |
| Project Consumables                          |         | 192.72             |       | 1.00   | 1.00   |           | 192.12          |  |
| Printing and Binding                         |         | 205.58             |       |        |        |           |                 |  |
| Shipping                                     |         | 154.17             |       |        |        |           | _               |  |
| Site Trailer                                 |         | 963.59             |       |        |        |           | _               |  |
| Electrical Hook Up                           |         | 1,927.17           |       |        |        |           | _               |  |
| Magazine Fencing                             |         | 899.35<br>770.97   |       |        |        |           |                 |  |
| Magazine Mobilization                        |         | 770.87<br>1 541 74 |       |        |        |           | Ī -             |  |
| Donor Explosives                             |         | 1,541.74<br>300.00 |       |        |        |           | _               |  |
| Site Remediation Subtotal - Other Direct Cor | its.    | 300.00             |       |        |        |           | 657.62          |  |
| Soproter - Other Priest Cor                  |         |                    |       |        |        |           |                 |  |
| Total Estimated Cor                          | sts T   |                    |       |        |        |           | 2,533.22        |  |

Corps of Engineers

| Camp Croft, Spartenburg, S.C                 |         |        |                           |        |        |           |           |  |  |
|--|---------|--------|---------------------------|--------|--------|-----------|-----------|--|--|
| Engineering Design Cost Estimate<br>Pond Are |         |        | Task 8<br>Quality Control |        |        |           |           |  |  |
|  |         |        |                           |        |        |           |           |  |  |
|  |         | Loaded | Hones                     |        |        |           |           |  |  |
|  |         | Hourly | per                       | Number | Number | Estimated |           |  |  |
| Labor Category                               |         | Rate   | Week                      | Weeks  | People | Hours     | Amount    |  |  |
| Program Management I                         |         | 82.06  |                           |        |        | -         | •         |  |  |
| Project Manager III                          |         | 76.92  |                           |        |        | -         | -         |  |  |
| Project Manager II                           |         | 66.67  |                           |        |        | -         | -         |  |  |
| Certified Industrial Hygienist               |         | 74.81  |                           |        |        | -         | -         |  |  |
| Engineer II                                  |         | 76.92  |                           |        |        | -         | -         |  |  |
| Survey Manager                               |         | 56.42  |                           |        |        | -         | •         |  |  |
| Surveyor V                                   |         | 46,16  |                           |        |        | -         | -         |  |  |
|  |         |        |                           |        |        |           |           |  |  |
| Quality Controt Specialist                   | Regular | 47.04  | 40.00                     | 4.50   | 1.00   | 180.00    | 8,467.20  |  |  |
| Site Safety Officer                          | Regular | 47.04  |                           |        |        | -         | -         |  |  |
| UXO Supervisor/Tech VI                       | Regular | 53.29  |                           |        |        | -         | -         |  |  |
| UXO Supervisor/Tech V                        | Regular | 47.04  |                           |        |        | -         | •         |  |  |
| UXO Technician IV                            | Regular | 40.49  |                           |        |        | -         | -         |  |  |
| UXO Technician III                           | Regular | 34.10  | 40.00                     | 4.50   | 1.00   | 180,00    | 6,138.00  |  |  |
| Laborer II                                   | Regular | 28.65  |                           |        |        | -         | -         |  |  |
|  |         |        |                           |        |        |           |           |  |  |
| Subtotal - Lab                               | or      |        |                           |        |        | 360.00    | 14,605.20 |  |  |
|  |         |        |                           |        |        |           |           |  |  |
|  |         | Loaded |                           | Number | Number |           |           |  |  |
| Other Direct Costs                           |         | Rate   |                           | Weeks  | Units  |           | Amount    |  |  |
| FM Radio, Handheld w/ charger                |         | 25.69  |                           | 4.50   | 1.00   |           | 115.61    |  |  |
| FM Radio Repeater/Base Station               |         | 44.97  |                           |        |        |           | -         |  |  |
| Cellular Telephone and Service               |         | 64,24  |                           |        |        |           | •         |  |  |
| Video Camera                                 |         | 32.12  |                           |        |        |           | -         |  |  |
| Computer                                     |         | 96.36  |                           |        |        |           | -         |  |  |
| Brushcutter, power                           |         | 96.36  |                           |        |        |           | •         |  |  |
| Chainsaw                                     |         | 64.24  |                           |        |        |           | -         |  |  |
| EOD Demolition Kit                           |         | 51.39  |                           |        |        |           | -         |  |  |
| Foester Ferrex Ordnance Locator              |         | 385.43 |                           |        |        |           | -         |  |  |
| Schonstedt Magnetic Locator                  |         | 51.39  |                           | 4.50   | 2.00   |           | 462.51    |  |  |
| Explosive Storage magazine                   |         | 44.97  |                           |        |        |           | -         |  |  |
| Carrier Phase GPS                            |         | 899.35 |                           |        |        |           | -         |  |  |

Task 9 Final Report

|  |         | Final Report       |             |                 |                  |                    |           |  |
|--|---------|--------------------|-------------|-----------------|------------------|--------------------|-----------|--|
|  |         | Loaded             | Hours       |                 |                  | ra al              |           |  |
| - 1 0  |         | Heurly             | per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt    |  |
| Laber Category                                     |         | Rute<br>82.06      | 42.00       | 0.25            | 1.00             | 10.50              | 861,63    |  |
| Program Management I                               |         | 76.92              | 42.00       | 0.25            | 1.00             | -                  | -         |  |
| Project Manager III                                |         | 66.67              | 42.00       | 2.00            | 1.00             | 84.00              | 5,600.28  |  |
| Project Manager II                                 |         | 74.81              | 42.00       | 2.00            | 1.00             |                    |           |  |
| Certified Industrial Hygienist Engineer II         |         | 76.92              | 42.00       | 1.00            | 1.00             | 42.00              | 3,230.64  |  |
| Survey Manager                                     |         | 56.42              | 42.00       | 2,00            | 1.00             | 84.00              | 4,739.28  |  |
| Survey Manager<br>Surveyor V                       |         | 46.16              |             |                 |                  | -                  | -         |  |
| OB. (Op.)  |         |                    |             |                 |                  |                    |           |  |
| Quality Control Specialist                         | Regular | 47.04              |             |                 |                  | •                  | •         |  |
| Site Safety Officer                                | Regular | 47.04              |             |                 |                  | -                  | -         |  |
| UXO Supervisor/Tech VI                             | Regular | 53.29              |             |                 |                  | -                  | -         |  |
| UXO Supervisor/Tech V                              | Regular | 47.04              |             |                 |                  | •                  | •         |  |
| UXO Technician IV                                  | Regular | 40.49              |             |                 |                  | -                  | -         |  |
| UXO Technician III                                 | Regular | 34.10              |             |                 |                  | -                  | -         |  |
| Laborer II   | Regular | 28.65              |             |                 |                  | -                  | -         |  |
|  |         |                    |             |                 |                  |                    |           |  |
| Subtotal - Labo                                    | г       |                    |             |                 |                  | 220.50             | 14,431.83 |  |
|  |         |                    |             |                 |                  |                    |           |  |
|  |         |                    |             |                 |                  |                    |           |  |
|  |         | Loaded             |             |                 | Number           |                    | Amount    |  |
| Other Direct Costs                                 |         | Rate               |             | Weeks           | Units            |                    | Amount    |  |
| FM Radio, Handheld w/ charger                      |         | 25.69              |             |                 |                  |                    | -         |  |
| FM Radio Repeater/Base Station                     |         | 44.97              |             |                 |                  |                    | •         |  |
| Cellular Telephone and Service                     |         | 64.24              |             |                 |                  |                    | -         |  |
| Video Camera                                       |         | 32.12              |             |                 |                  |                    | •         |  |
| Computer   |         | 96.38              |             |                 |                  |                    | _         |  |
| Brushcutter, power                                 |         | 96.36<br>64.24     |             |                 |                  |                    | _         |  |
| Chainsaw   |         | 51.39              |             |                 |                  |                    | _         |  |
| EOD Demolition Kit Foester Ferrex Ordnance Locator |         | 385.43             |             |                 |                  |                    | <u>-</u>  |  |
| Schonstedt Magnetic Locator                        |         | 51.39              |             |                 |                  |                    | _         |  |
| Explosive Storage magazine                         |         | 44.97              |             |                 |                  |                    | _         |  |
| Carrier Phase GPS                                  |         | 899.35             |             |                 |                  |                    |           |  |
| Surveyor's Kit                                     |         | 64.24              |             |                 |                  |                    | -         |  |
| Total Station Survey Equipment                     |         | 835,11             |             |                 |                  |                    | -         |  |
| Ford Explorer                                      |         | 321.20             |             |                 |                  |                    | -         |  |
| Pickup, 4x4, 3/4 Ton                               |         | 449.67             |             |                 |                  |                    | -         |  |
| Air Fare - Round Trip                              |         | 1,220.54           |             |                 |                  |                    | -         |  |
| Mileage  |         | 0.40               |             |                 |                  |                    | -         |  |
| Fuel   |         | 1.74               |             |                 |                  |                    | -         |  |
| Lodging  |         | 68.09              |             |                 |                  |                    | -         |  |
| Meals and Incidentals                              |         | 38.55              |             |                 |                  |                    | +         |  |
| Project Consumables                                |         | 192.72             |             |                 |                  |                    | 444.40    |  |
| Printing and Binding                               |         | 205.56             |             | 1.00            | 2.00             |                    | 411.12    |  |
| Shipping   |         | 154.17             |             |                 |                  |                    | •         |  |
| Site Trailer                                       |         | 963.59             |             |                 |                  |                    | _         |  |
| Electrical Hook Up                                 |         | 1,927.17           |             |                 |                  |                    | <u> </u>  |  |
| Magazine Fencing                                   |         | 899.35<br>770.87   |             |                 |                  |                    |           |  |
| Magazine Mobilization                              |         | 770.87             |             |                 |                  |                    |           |  |
| Donor Explosives                                   |         | 1,541.74<br>300.00 |             |                 |                  |                    | Ī .       |  |
| Site Remediation                                   |         | 300.00             |             |                 |                  |                    | 411.12    |  |
| Subtotal - Other Direct Cost                       |         |                    |             |                 |                  |                    | 711.12    |  |
| Total Estimated Cost                               | 2       |                    |             |                 |                  |                    | 14,842.95 |  |
| i viai Estimated Cost                              |         |                    |             |                 |                  |                    |           |  |

| Pond Area                       |         |                          |                      | Task 10<br>Site Remediation |                  |                    |        |  |  |
|---------------------------------|---------|--------------------------|----------------------|-----------------------------|------------------|--------------------|--------|--|--|
| Labor Category                  |         | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks             | Number<br>People | Estimated<br>Hours | Ameunt |  |  |
| Program Management I            |         | 82.06                    |                      |                             | <u> </u>         | •                  | •      |  |  |
| Project Manager III             |         | 76.92                    |                      |                             |                  | -                  | -      |  |  |
| Project Manager II              |         | 66.67                    |                      |                             |                  | -                  | •      |  |  |
| Certified Industrial Hygienist  |         | 74.81                    |                      |                             |                  | -                  | -      |  |  |
| Engineer II                     |         | 76.92                    |                      |                             |                  | •                  | -      |  |  |
| Survey Manager                  |         | 56.42                    |                      |                             |                  | -                  | -      |  |  |
| Surveyor V                      |         | 46.16                    |                      |                             |                  | <u>-</u>           |        |  |  |
| -                               |         |                          | :                    |                             |                  |                    |        |  |  |
| Quality Control Specialist      | Regular | 47.04                    |                      |                             |                  | •                  | •      |  |  |
| Site Safety Officer             | Regular | 47.04                    |                      |                             |                  | -                  | -      |  |  |
| UXO Supervisor/Tech VI          | Regular | 53.29                    |                      |                             |                  | -                  | •      |  |  |
| UXO Supervisor/Tech V           | Regular | 47.04                    |                      |                             |                  | -                  | -      |  |  |
| UXO Technician IV               | Regular | 40.49                    |                      |                             |                  | -                  | -      |  |  |
| UXO Technician III              | Regular | 34.10                    |                      |                             |                  | •                  | -      |  |  |
| Laborer II                      | Regular | 28.65                    |                      |                             |                  | -                  | -      |  |  |
| Subtotal - La                   | hor     |                          |                      |                             |                  | -                  |        |  |  |
|                                 |         |                          |                      |                             |                  |                    |        |  |  |
|                                 |         | Loaded                   |                      | Number                      | Number           |                    |        |  |  |
| Other Direct Costs              |         | Rate                     |                      | Weeks                       | Unit <u>s</u>    |                    | Amount |  |  |
| FM Radio, Handheld w/ charger   |         | 25.69                    |                      |                             |                  |                    | •      |  |  |
| The Dadia Reporter/Rose Station |         | 44 97                    |                      |                             |                  |                    |        |  |  |

|                                 | Loaded   | Number N |       |        |
|---------------------------------|----------|----------|-------|--------|
| Other Direct Costs              | Rate     | Weeks    | Units | Amount |
| FM Radio, Handheld w/ charger   | 25.69    |          |       | -      |
| FM Radio Repeater/Base Station  | 44.97    |          |       | •      |
| Cellular Telephone and Service  | 64.24    |          |       | -      |
| Video Camera                    | 32.12    |          |       | -      |
| Computer                        | 96.36    |          |       | •      |
| Brushcutter, power              | 96.36    |          |       | -      |
| Chainsaw                        | 64.24    |          |       | -      |
| EOD Demotition Kit              | 51.39    |          |       | -      |
| Foester Ferrex Ordnance Locator | 385.43   |          |       | -      |
| Schonstedt Magnetic Locator     | 51.39    |          |       | -      |
| Explosive Storage magazine      | 44.97    |          |       | -      |
| Carrier Phase GPS               | 899.35   |          |       | -      |
| Surveyor's Kit                  | 64.24    |          |       | •      |
| Total Station Survey Equipment  | 835.11   |          |       | -      |
| Ford Explorer                   | 321.20   |          |       | -      |
| Pickup, 4x4, 3/4 Ton            | 449.67   |          |       | -      |
| Air Fare - Round Trip           | 1,220.54 |          |       | -      |
| Mileage                         | 0.40     |          |       | -      |
| Fuel                            | 1.74     |          |       | -      |
| Lodging                         | 88.09    |          |       | -      |
| Meals and Incidentals           | 38.55    |          |       | -      |
| Project Consumables             | 192.72   |          |       | -      |
| Printing and Binding            | 205.56   |          |       | -      |
| Shipping                        | 154.17   |          |       | -      |
| Site Trailer                    | 963.59   |          |       | -      |
| Electrical Hook Up              | 1,927.17 |          |       | -      |
| Magazine Fencing                | 899.35   |          |       | -      |
| Magazine Mobilization           | 770.87   |          |       | -      |
| Donor Explosives                | 1,541.74 |          |       | 200    |
| Site Remediation                | 300.00   | 1.00     | 1.00  | 300.0  |
| Subtotal - Other Direct Costs   |          |          |       | 300.0  |
|                                 |          |          |       |        |
| Total Estimated Costs           |          |          |       | 300.0  |

EVALUATED REMOVAL ALTERNATIVES

#### **Pond Area**

### Alternative 3 - Surface Clearance of OE

Alternative 3 requires a complete OE surface clearance of 25.23 acres. Electronic detection instruments are necessary to detect OE hidden from view by high grasses and terrain. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are considered moderate in the pond area. It is assumed that 40% of the total grids will require brush clearance. During the Engineering Design effort, 2.47 acres of the pond area were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for this effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. Because of the limited effort required to conduct OE removal at this site, a site visit has been determined unnecessary and had been omitted from this cost estimate. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance Search Grid Size: 100' X 100'

25.23 acres/110 (100' X100') search grids

2,47/11 grids

22.76 acres 99 grids

40 grids/9.18 acres .22 acres per grid

Production Rates:

Brush Clearance

Land Survey

5 grids per day per four man team (one team)

14 grids per day per two person team (1 team)

Surface Clearance

8.71 grids per day (2 acres) per 5 person team (one team)

Duration:

Project Management

Land Survey

20 working days/5 weeks

8 working days/2 weeks (one team)

Brush Clearance

8 working days/2 weeks -- 5 grids per work day per four-person

team (one team)

Surface Clearance

Disposal

**Quality Control Total Duration** 

20 Working Days/5 weeks

12 working days/3 weeks (one team) Effort included in Surface Clearance

12 working days/3 weeks (2 person team)

## Surface Clearance of OE - Alternative 3

| o _        | _ |   |     |
|------------|---|---|-----|
| 3 <b>8</b> |   | - | P¥. |

|                                |         |                          | Dum mary                    |                 |                  |                    |             |  |
|--------------------------------|---------|--------------------------|-----------------------------|-----------------|------------------|--------------------|-------------|--|
| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br><i>per</i><br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hears | Amount      |  |
| Program Management I           |         | 82.06                    |                             |                 | _                | 31.50              | 2,584.89    |  |
| Project Manager III            |         | 76.92                    |                             |                 |                  | 210.00             | 16,153.20   |  |
| Project Manager II             |         | 66.67                    |                             |                 |                  | 147.00             | 9,800.49    |  |
| Certified Industrial Hygienist |         | 74.81                    |                             |                 |                  | 16.00              | 1,198.96    |  |
| Engineer II                    |         | 76.92                    |                             |                 |                  | 52.50              | 4,038.30    |  |
| Survey Manager                 |         | 56.42                    |                             |                 |                  | 126.00             | 7,108.92    |  |
| Surveyor V                     |         | 46.16                    | 4                           |                 |                  | 84.00              | 3,877.44    |  |
| Quality Control Specialist     | Regular | 47.04                    |                             |                 |                  | 120.00             | 5,644.80    |  |
| Site Safety Officer            | Regular | 47,04                    |                             |                 |                  | 200.00             | 9,408.00    |  |
| UXO Supervisor/Tech VI         | Regular | 53.2 <del>9</del>        |                             |                 |                  | 250.00             | 13,322.50   |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                             |                 |                  | 120.00             | 5,644.80    |  |
| UXO Technician IV              | Regular | 40.49                    |                             |                 |                  | 570.00             | 23,079.30   |  |
| UXO Technician III             | Regular | 34.10                    |                             |                 |                  | 200.00             | 6,820.00    |  |
| Laborer II                     | Regular | 28.65                    |                             |                 |                  | 240.00             | 6,876.00    |  |
|                                |         |                          |                             |                 |                  |                    | <del></del> |  |
| Subtotal - L                   | abor    |                          |                             |                 |                  | 2,367.00           | 115,555.60  |  |
|                                |         |                          |                             |                 |                  |                    |             |  |
|                                |         | Loaded                   |                             | Number          | Number           |                    |             |  |
| Other Diseast Conte            |         | Doto                     |                             | Washe           | linite           |                    | Amount      |  |

|                                 | Loaded   | Number | Number |            |
|---------------------------------|----------|--------|--------|------------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    |        |        | 308.28     |
| FM Radio Repeater/Base Station  | 44.97    |        |        | 674.55     |
| Cellular Telephone and Service  | 64.24    |        |        | 321.20     |
| Video Camera                    | 32.12    |        |        | 160.60     |
| Computer                        | 96.36    |        |        | 770.88     |
| Brushcutter, power              | 96.36    |        |        | 385.44     |
| Chainsaw                        | 64.24    |        |        | 256.96     |
| EOD Demolition Kit              | 51.39    |        |        | 154.17     |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | -          |
| Schonstedt Magnetic Locator     | 51.39    |        |        | 1,593.09   |
| Explosive Storage magazine      | 44.97    |        |        | 674.55     |
| Carrier Phase GPS               | 899.35   |        |        | 899.35     |
| Surveyor's Kit                  | 64.24    |        |        | 128.48     |
| Total Station Survey Equipment  | 835.11   |        |        | 1,870.22   |
| Ford Explorer                   | 321.20   |        |        | 6,745.20   |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | 1,011.76   |
| Air Fare - Round Trip           | 1,220.54 |        |        | 9,764.32   |
| Mileage                         | 0.40     |        |        | 920.00     |
| Fuel                            | 1.74     |        |        | 1,338.06   |
| Lodging                         | 68.09    |        |        | 21,516.44  |
| Meals and Incidentals           | 38.55    |        |        | 12,760.05  |
| Project Consumables             | 192.72   |        |        | 4,047.12   |
| Printing and Binding            | 205.56   |        |        | 1,438.92   |
| Shipping                        | 154.17   |        |        | 616.68     |
| Site Trailer                    | 963.59   |        |        | 1,204.49   |
| Electrical Hook Up              | 1,927.17 |        |        | 1,927.17   |
| Magazine Mobilization           | 770.87   |        |        | 770.87     |
| Donor Explosives                | 1,541.74 |        |        | 770.87     |
| Sits Remediation                | 300.00   |        |        | 300.00     |
| Subtotal - Other Direct Costs   |          |        |        | 74,029.07  |
|                                 |          |        |        |            |
| Total Estimated Costs           |          |        |        | 189,584.67 |
| August 19 Artifethiological     | adina    | 7.2 7. |        |            |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pond Area

Task 1 Site Visit

| Labor Category   | Pond Area                       | l       |        | jask 1 |        |        |       |          |
|--|---------------------------------|---------|--------|--------|--------|--------|-------|----------|
| Program Management   |                                 |         |        |        |        | Site   | Visit |          |
| Program Management   |                                 |         |        | Hours  |        |        |       |          |
| Program Management   76,92   76,92   77,92     |                                 |         | Hearly | -      |        |        |       | _        |
| Project Manager  | Labor Category                  |         | Rate   | Week   | Weeks  | People | Hours | Amount   |
| Project Manager  | Program Management I            |         | 82.06  |        |        | -      | -     | -        |
| Certified Industrial Hyglenist   74.81   Engineer II   76.92   | Project Manager III             |         | 76.92  |        |        |        | -     | -        |
| Engineer II 76.92 Surveyor V 46.16 Quality Control Specialist Regular 47.04 Site Safety Officer Regular 47.04 Site Safety Officer Regular 47.04 UXO Supervisor/Tech VI Regular 47.04 UXO Supervisor/Tech V Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 47.04 UXO Technician IVI Regular 40.49 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 48.40 UXO Technician IVI Regular 47.04 UXO Technician IVI A0.49 UXO Technician IVI A0.49 UXO Technician IVI A0.49 UXO Technician IVI A0.49 UXO Technicia | Project Manager II              |         | 66.67  |        |        |        | -     | -        |
| Survey Manager   | Certified Industrial Hygienist  |         | 74.81  |        |        |        | •     | -        |
| Surveyor V   Quality Control Specialist   Regular   47.04  | Engineer il                     |         | 76.92  |        |        |        | -     | •        |
| Quality Control Specialist   Regular   47.04   | Survey Manager                  |         | 56.42  |        |        |        | -     | •        |
| Site Safety Officer  | Surveyor V                      |         | 46.16  |        |        |        | -     | -        |
| UXO Supervisor/Tech VI   Regular   47.04   | Quality Control Specialist      | Regular | 47.04  |        |        |        | -     | -        |
| UXO Supervisor/Tech V   Regular   47.04   UXO Technician IV   Regular   40.49  | Site Safety Officer             | Regular | 47.04  |        |        |        | -     | -        |
| UXO Technician IV   Regular   40.49  | UXO Supervisor/Tech VI          | Regular | 53.29  |        |        |        | -     | -        |
| Subtotal - Labor   Subtotal -    | UXO Supervisor/Tech V           | Regular | 47.04  |        |        |        | -     | -        |
| Subtotal - Lebor   Subtotal -    | UXO Technician IV               | Regular | 40.49  |        |        |        | -     | •        |
| Computer   Costs   C   | UXO Technician III              | Regular | 34,10  |        |        |        | -     | -        |
| Computer   Costs   C   | Laborer II                      | Regular | 28.65  |        |        |        | -     | •        |
| Computer   Costs   C   |                                 |         |        |        |        |        |       | <u> </u> |
| Other Direct Costs         Rale         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         -         -           FM Radio Repeater/Base Station         44.97         -         -           Collular Telephone and Service         64.24         -         -           Video Camera         32.12         -         -           Computer         96.36         -         -         -           Brushcutter, power         96.36         -         -         -         -           Chainsaw         64.24         -   | Subtotal - Labo                 |         |        |        |        |        | -     | -        |
| Other Direct Costs         Rale         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         -         -           FM Radio Repeater/Base Station         44.97         -         -           Collular Telephone and Service         64.24         -         -           Video Camera         32.12         -         -           Computer         96.36         -         -         -           Brushcutter, power         96.36         -         -         -         -           Chainsaw         64.24         -   |                                 |         |        |        |        |        |       |          |
| Other Direct Costs         Rale         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         -         -           FM Radio Repeater/Base Station         44.97         -         -           Collular Telephone and Service         64.24         -         -           Video Camera         32.12         -         -           Computer         96.36         -         -         -           Brushcutter, power         96.36         -         -         -         -           Chainsaw         64.24         -   |                                 |         |        |        |        |        |       |          |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera 32.12 Computer Brushcutter, power Chainsaw |                                 |         | Loaded |        | Number | Number |       |          |
| FM Radio Repeater/Base Station       44.97         Cellular Telephone and Service       64.24         Video Camera       32.12         Computer       96.36         Brushcutter, power       96.36         Chainsaw       64.24         EOD Demolition Kit       51.39         Foester Ferrex Ordnance Locator       385.43         Schonstedt Magnetic Locator       51.39         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0,40         Fuel       1.74         Lodging       68.09         Meats and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.66         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remed   | Other Direct Costs              |         | Rate   |        | Weeks  | Units  |       | Amount   |
| Cellular Telephone and Service         64.24           Video Camera         32.12           Computer         96.36           Brushcutter, power         96.36           Chainsaw         64.24           EOD Demolition Kit         51.39           Foester Ferrex Ordnance Locator         385.43           Schonstedt Magnetic Locator         51.39           Explosive Storage magazine         44.97           Carrier Phase GPS         899.35           Surveyor's Kit         64.24           Totat Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Alir Fare - Round Trip         1.220.54           Mileage         0.40           Fuel         1.74           Lodging         68.09           Meats and Incidentals         38.55           Project Consumables         192.72           Printing and Binding         205.56           Shipping         154.17           Site Trailer         963.59           Electrical Hook Up         1,927.17           Magazine Mobilization         770.87           Danor Explosives         1,541.74 <td< td=""><td>FM Radio, Handheld w/ charger</td><td></td><td>25.69</td><td></td><td></td><td></td><td></td><td>-</td></td<>   | FM Radio, Handheld w/ charger   |         | 25.69  |        |        |        |       | -        |
| Video Camera       32.12         Computer       96.36         Brushcutter, power       96.36         Chainsaw       64.24         EOD Demolition Kit       51.39         Foester Ferrex Ordnance Locator       385.43         Schonstedt Magnetic Locator       51.39         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Totat Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1.220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meats and incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       300.00  | FM Radio Repeater/Base Station  |         | 44.97  |        |        |        |       | -        |
| Computer         96.36           Brushcutter, power         96.36           Chainsaw         64.24           EOD Demolition Kit         51.39           Foester Ferrex Ordnance Locator         385.43           Schonstedt Magnetic Locator         51.39           Explosive Storage magazine         44.97           Carrier Phase GPS         899.35           Surveyor's Kit         64.24           Total Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Air Fare - Round Trip         1,220.54           Mileage         0.40           Fuel         1.74           Lodging         68.09           Meats and Incidentats         38.55           Project Consumables         192.72           Printing and Binding         205.56           Shipping         154.17           Site Trailer         963.59           Electrical Hook Up         1,927.17           Magazine Mobilization         770.87           Donor Explosivés         1,541.74           Site Remediation         -  | Cellular Telephone and Service  |         | 64.24  |        |        |        |       | -        |
| Brushcutter, power         96.36           Chainsaw         64.24           EOD Demolition Kit         51.39           Foester Ferrex Ordnance Locator         385.43           Schonstedt Magnetic Locator         51.39           Explosive Storage magazine         44.97           Carrier Phase GPS         899.35           Surveyor's Kit         64.24           Total Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Air Fare - Round Trip         1,220.54           Mileage         0.40           Fuel         1,74           Lodging         88.09           Meats and Incidentals         38.55           Project Consumables         192.72           Printing and Binding         205.56           Shipping         154.17           Site Trailer         983.59           Electrical Hook Up         1,927.17           Magazine Mobilization         770.87           Donor Explosives         1,541.74           Site Remediation         300.00  | Video Camera                    |         | 32.12  |        |        |        |       | -        |
| Chainsaw       64.24         EOD Demolition Kit       51.39         Foester Ferrex Ordnance Locator       385.43         Schonstedt Magnetic Locator       51.39         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         For Explorer       321.20         Pickup. 4x4, 3/4 Ton       449.67         Air Fare - Round Trip       1.220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meats and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.66         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       300.00  | Computer                        |         | 96.36  |        |        |        |       | •        |
| Section  | Brushcutter, power              |         | 96.36  |        |        |        |       | -        |
| Schonstedt Magnetic Locator  | Chainsaw                        |         | 84.24  |        |        |        |       | -        |
| Schonstedt Magnetic Locator       51.39         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meats and Incidentats       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       300.00  | EOD Demotition Kit              |         | 51.39  |        |        |        |       | -        |
| Explosive Storage magazine   | Foester Ferrex Ordnance Locator |         | 385.43 |        |        |        |       | -        |
| Carrier Phase GPS       899.35       -         Surveyor's Kit       64.24       -         Totat Station Survey Equipment       835.11       -         Ford Explorer       321.20       -         Pickup, 4x4, 3/4 Ton       449.67       -         Air Fare - Round Trip       1,220.54       -         Mileage       0.40       -         Fuel       1.74       -         Lodging       68.09       -         Meats and Incidentats       38.55       -         Project Consumables       192.72       -         Printing and Binding       205.56       -         Shipping       154.17       -         Site Trailer       963.59       -         Electrical Hook Up       1,927.17       -         Magazine Mobilization       770.87       -         Donor Explosives       1,541.74       -         Site Remediation       300.00       -   | Schonstedt Magnetic Locator     |         | 51.39  |        |        |        |       | -        |
| Surveyor's Kit         64.24           Totat Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Air Fare - Round Trip         1,220.54           Mileage         0.40           Fuel         1.74           Lodging         68.09           Meats and Incidentats         38.55           Project Consumables         192.72           Printing and Binding         205.56           Shipping         154.17           Site Trailer         963.59           Electrical Hook Up         1,927.17           Magazine Mobilization         770.87           Donor Explosives         1,541.74           Site Remediation         300.00  | Explosive Storage magazine      |         | 44.97  |        |        |        |       | •        |
| Total Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Air Fare - Round Trip         1,220.54           Mileage         0.40           Fuel         1.74           Lodging         68.09           Meats and Incidentats         38.55           Project Consumables         192.72           Printing and Binding         205.56           Shipping         154.17           Site Trailer         963.59           Electrical Hook Up         1,927.17           Magazine Mobilization         770.87           Donor Explosives         1,541.74           Site Remediation         300.00   | Carrier Phase GPS               |         | 899.35 |        |        |        |       | -        |
| Ford Explorer 321.20 - Pickup, 4x4, 3/4 Ton 449.67 - Alr Fare - Round Trip 1,220.54 - Mileage 0,40 - Fuel 1.74 - Lodging 68.09 - Meats and Incidentats 38.55 - Project Consumables 192.72 - Printing and Binding 205.56 - Shipping 154.17 - Site Trailer 963.59 - Electrical Hook Up 1,927.17 - Magazine Mobilization 770.87 - Donor Explosives 1,541.74 - Site Remediation 300.00 -   | Surveyor's Kit                  |         | 64,24  |        |        |        |       |          |
| Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meats and Incidentats       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       300.00  | Total Station Survey Equipment  |         |        |        |        |        |       | -        |
| Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meats and Incidentats       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       300.00  | ·                               |         |        |        |        |        |       | -        |
| Mileage       0.40         Fuel       1.74         Lodging       68.09         Meats and Incidentats       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       300.00   |                                 |         |        |        | }      |        |       | •        |
| Fuel         1.74         -           Lodging         68.09         -           Meats and Incidentats         38.55         -           Project Consumables         192.72         -           Printing and Binding         205.56         -           Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -  | •                               |         |        |        |        |        |       | -        |
| Lodging         68.09         -           Meats and Incidentats         38.55         -           Project Consumables         192.72         -           Printing and Binding         205.56         -           Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -  | •                               |         |        |        |        |        |       | •        |
| Meats and Incidentals         38.55         -           Project Consumables         192.72         -           Printing and Binding         205.56         -           Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -  |                                 |         |        |        |        |        |       | •        |
| Project Consumables         192.72         -           Printing and Binding         205.56         -           Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -  |                                 |         |        |        |        |        |       | -        |
| Printing and Binding         205.56         -           Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -   |                                 |         |        |        |        |        |       |          |
| Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -   | -                               |         |        |        |        |        |       | •        |
| Site Trailer       963.59       -         Electrical Hook Up       1,927.17       -         Magazine Mobilization       770.87       -         Donor Explosives       1,541.74       -         Site Remediation       300.00       -   | •                               |         |        |        |        |        |       | •        |
| Electrical Hook Up         1,927.17         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         300.00         -   |                                 |         |        |        |        |        |       | -        |
| Magazine Mobilization770.87-Donor Explosives1,541.74-Site Remediation300.00-   |                                 |         |        |        |        |        |       | •        |
| Donor Explosives 1,541.74 - Site Remediation 300.00 -  | ·                               |         |        |        |        |        |       | _        |
| Site Remediation 300.00  | •                               |         |        |        |        |        |       |          |
|  | -                               |         | -      |        |        |        |       |          |
| Subtotal - Other Direct Costs  |                                 |         | 500.00 |        |        |        |       |          |
|  | Subtotal - Other Direct Cost    |         |        |        |        |        |       |          |

**Total Estimated Costs** 

| Engineering Design Cost Estimate<br>Pond Area |         |                          |                      | Task 3<br>Work Plan |                  |                    |           |  |  |
|---|---------|--------------------------|----------------------|---------------------|------------------|--------------------|-----------|--|--|
| Labor Category                                |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks     | Number<br>People | Estimated<br>Hours | Amount    |  |  |
| Program Management I                          |         | 82.06                    | 42.00                | 0.50                | 1,00             | 21.00              | 1,723.26  |  |  |
| Project Manager III                           |         | 76.92                    |                      |                     |                  | -                  | •         |  |  |
| Project Manager II                            |         | 66.67                    | 42.00                | 2.00                | 1.00             | 84.00              | 5,800.28  |  |  |
| Certified Industrial Hygienist                |         | 74.81                    | 40.00                | 0,40                | 1.00             | 16.00              | 1,196.96  |  |  |
| Engineer II                                   |         | 76.92                    | 42.00                | 0.50                | 1.00             | 21.00              | 1,615.32  |  |  |
| Survey Manager                                |         | 58.42                    | 42.00                | 0.80                | 1.00             | 33.60              | 1,895.71  |  |  |
| Surveyor V                                    |         | 46.16                    |                      |                     |                  | -                  | -         |  |  |
| Quality Control Specialist                    | Regular | 47.04                    |                      |                     |                  | •                  | -         |  |  |
| Site Safety Officer                           | Regular | 47.04                    |                      |                     |                  | -                  | -         |  |  |
| UXO Supervisor/Tech VI                        | Regular | 53.29                    | 40.00                | 1.00                | 1.00             | 40.00              | 2,131.60  |  |  |
| UXO Supervisor/Tech V                         | Regular | 47,04                    |                      |                     |                  | -                  | -         |  |  |
| UXO Technician IV                             | Regular | 40.49                    |                      |                     |                  | -                  | -         |  |  |
| UXO Technician III                            | Regular | 34.10                    |                      |                     |                  | •                  | -         |  |  |
| Laborer II                                    | Regular | 28.65                    |                      |                     |                  | -                  | -         |  |  |
|   |         |                          |                      |                     |                  |                    |           |  |  |
| Subtotal - Labo                               | r       |                          |                      |                     |                  | 215.60             | 14,163.13 |  |  |
|   |         |                          |                      |                     |                  |                    |           |  |  |
|   |         | Loaded                   |                      | Number              | Number           |                    |           |  |  |
| Other Direct Costs                            |         | Rate                     |                      | Weeks               | Units            |                    | Amount    |  |  |
| FM Radio, Handheld w/ charger                 | - "     | 25.69                    |                      |                     |                  |                    | -         |  |  |
| FM Radio Repeater/Base Station                |         | 44.97                    |                      |                     |                  |                    | -         |  |  |
| Cellular Telephone and Service                |         | 64.24                    |                      |                     |                  |                    |           |  |  |
| Video Camera                                  |         | 32.12                    |                      |                     |                  |                    | -         |  |  |
| Computer                                      |         | 96.36                    |                      | 1.00                | 1.00             |                    | 96.30     |  |  |
| Brushcutter, power                            |         | 96,36                    |                      |                     |                  |                    | -         |  |  |
| Chainsaw                                      |         | 64.24                    |                      |                     |                  |                    | -         |  |  |
| EOD Demolition Kit                            |         | 51.39                    |                      |                     |                  |                    | -         |  |  |
| Foester Ferrex Ordnance Locator               |         | 385.43                   |                      |                     |                  |                    | -         |  |  |
| Schonstedt Magnetic Locator                   |         | 51.39                    |                      |                     |                  |                    | -         |  |  |
| Explosive Storage magazine                    |         | 44.97                    |                      |                     |                  |                    | -         |  |  |
| Carrier Phase GPS                             |         | 899.35                   |                      |                     |                  |                    | -         |  |  |
| Surveyor's Kit                                |         | 64.24                    |                      |                     |                  |                    | -         |  |  |
| Total Station Survey Equipment                |         | 835.11                   |                      |                     |                  |                    |           |  |  |
| Ford Explorer                                 |         | 321.20                   |                      | 1.00                | 1.00             |                    | 321.20    |  |  |
| Pickup, 4x4, 3/4 Ton                          |         | 449.67                   |                      |                     |                  |                    | -         |  |  |
| Air Fare - Round Trip                         |         | 1,220.54                 |                      | 1,00                | 1.00             |                    | 1,220.54  |  |  |
|   |         |                          |                      | 50.00               | 4.00             |                    | 20.00     |  |  |

Tark 3 Site Management

| Pond Area                       |         |                |             |   |                         |               |           |  |  |  |
|---------------------------------|---------|----------------|-------------|---|-------------------------|---------------|-----------|--|--|--|
|                                 |         |                |             |   | 8                       | ite Managemai | nt        |  |  |  |
|                                 |         | Loaded         | Hours       |   | Number Number Estimated |               |           |  |  |  |
|                                 |         | Hourly<br>Rate | per<br>Week | Number<br>Weeks                         | Number<br>People        | Hours         | Amenat    |  |  |  |
| Lahor Category                  |         | 82.06          | TT ECH      | *************************************** | p.:-                    |               | _         |  |  |  |
| Program Management I            |         | 76.92          | 42.00       | 5,00                                    | 1,00                    | 210.00        | 18,153.20 |  |  |  |
| Project Manager III             |         | 68,67          | 72.00       |   | ****                    | -             |           |  |  |  |
| Project Manager II              |         | 74.81          |             |   |                         | _             | _         |  |  |  |
| Certified Industrial Hygienist  |         | 76.92          |             |   |                         | _             | -         |  |  |  |
| Engineer II                     |         | 56.42          |             |   |                         | -             | -         |  |  |  |
| Survey Manager                  |         | 46.16          |             |   |                         | _             | -         |  |  |  |
| Surveyor V                      | Regular | 47.04          |             |   |                         | -             | _         |  |  |  |
| Quality Control Specialist      | Regular | 47.04          | 40.00       | 5.00                                    | 1,00                    | 200.00        | 9,408.0   |  |  |  |
| Site Safety Officer             | _       | 53.29          | 40.00       | 5.00                                    | 1.00                    | 200.00        | 10,658.0  |  |  |  |
| UXO Supervisor/Tech VI          | Regular | 47.04          | 40.00       | 5.00                                    | 1.00                    | -             | -         |  |  |  |
| UXO Supervisor/Tech V           | Regular |                |             |   |                         | _             | -         |  |  |  |
| UXO Technician IV               | Regular | 40.49          |             |   |                         | _             | _         |  |  |  |
| UXO Technician III              | Regular | 34.10          |             |   |                         | _             | _         |  |  |  |
| Laborer II                      | Regular | 28.65          |             |   | •••                     | _             | _         |  |  |  |
| Subtotal - Lab                  | or.     |                |             |   |                         | 610.00        | 36,219.2  |  |  |  |
| Subjutan - Cab                  | OI .    |                |             |   |                         |               |           |  |  |  |
|                                 |         | . ,            | :<br>       |   |                         |               |           |  |  |  |
|                                 |         | Loaded         |             | Number<br>Weeks                         | Number<br>Units         |               | Amount    |  |  |  |
| Other Direct Costs              |         | Rate           |             | 140619                                  | Uiille                  |               |           |  |  |  |
| FM Radio, Handheld w/ charger   |         | 25.69          |             | 5.00                                    | 3.00                    |               | 674.5     |  |  |  |
| FM Radio Repeater/Base Station  |         | 44.97          |             |   | 1.00                    |               | 321.2     |  |  |  |
| Cellular Telephone and Service  |         | 64.24          |             | 5.00                                    | 1.00                    |               | 160.6     |  |  |  |
| Video Camera                    |         | 32.12          |             | 5.00                                    |                         |               | 481.8     |  |  |  |
| Computer                        |         | 96.36          |             | 5.00                                    | 1.00                    |               | 7017      |  |  |  |
| Brushcutter, power              |         | 96.36          |             |   |                         |               |           |  |  |  |
| Chainsaw                        |         | 64.24          |             |   |                         |               | 1         |  |  |  |
| EOD Demolition Kit              |         | 51.39          |             |   |                         |               | 1 [       |  |  |  |
| Foester Ferrex Ordnance Locator |         | 385.43         |             |   |                         |               | •         |  |  |  |
| Schonstedt Magnetic Locator     |         | 51.39          |             |   |                         |               | 674.5     |  |  |  |
| Explosive Storage magazine      |         | 44.97          |             | 5.00                                    | 3.00                    |               | 1         |  |  |  |
| Carrier Phase GPS               |         | 899.35         |             |   |                         |               | •         |  |  |  |
| Surveyor's Kit                  |         | 64.24          |             |   |                         |               | •         |  |  |  |
| Total Station Survey Equipment  |         | 835.11         |             |   |                         |               | 4.818.0   |  |  |  |
| Ford Explorer                   |         | 321.20         |             | 5.00                                    | 3.00                    |               | 4,010.    |  |  |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67         |             | 4.00                                    | 3.00                    |               | 3,861.6   |  |  |  |
| Air Fare - Round Trip           |         | 1,220.54       |             | 1.00                                    |                         |               | 800.0     |  |  |  |
| Mileage                         |         | 0.40           |             | 2,000.00                                |                         |               | 835.      |  |  |  |
| Fuel                            |         | 1.74           |             | 96.00                                   |                         |               | 7,149.    |  |  |  |
| Lodging                         |         | 68.09          |             | 21,00<br>22,00                          |                         |               | 4,240.    |  |  |  |
| Meais and Incidentals           |         | 38.55          |             | 5.00                                    |                         |               | 963.      |  |  |  |
| Project Consumables             |         | 192.72         |             | 2.00                                    |                         |               | 411.      |  |  |  |
| Printing and Binding            |         | 205.56         |             |   |                         |               | 462.      |  |  |  |
| Shipping                        |         | 154.17         |             | 1.00                                    |                         |               | 1,204.    |  |  |  |
| Site Trailer                    |         | 963.59         |             | 1.25                                    |                         |               | 1,927.    |  |  |  |
| Electrical Hook Up              |         | 1,927.17       |             | 1.00                                    |                         |               | 770.      |  |  |  |
| Magazine Mobilization           |         | 770.87         |             | 1.00                                    | 1.00                    |               |           |  |  |  |
| Donor Explosives                |         | 1,541.74       |             |   |                         |               |           |  |  |  |
| Site Remediation                |         | 300.00         |             |   | ·                       |               | 30,456.   |  |  |  |
| Subtotal - Other Direct Co      | a 15    |                |             |   |                         |               | 23,100.   |  |  |  |
| Total Estimated Co              | sts     |                |             |   |                         |               | 66,675.   |  |  |  |
| , year Latiniated Co            |         |                |             |   |                         |               |           |  |  |  |

| Engineering Design Cost Estin  |         |                          |                      |                         | Took             | . 4                |          |
|--------------------------------|---------|--------------------------|----------------------|-------------------------|------------------|--------------------|----------|
|                                |         |                          |                      |                         |                  | Land Survey        |          |
| Labar Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>W <u>erks</u> | Number<br>People | Betimated<br>Hours | Amount   |
| Program Management I           |         | 82.06                    |                      | <u> </u>                |                  | -                  | -        |
| Project Manager III            |         | 76.92                    |                      |                         |                  | •                  | -        |
| Project Manager II             |         | 66,67                    |                      |                         |                  | -                  | -        |
| Certified Industrial Hygienist |         | 74.81                    |                      |                         |                  | -                  | -        |
| Engineer II                    |         | 76.92                    |                      |                         |                  | •                  | -        |
| Survey Manager                 |         | 56.42                    | 42.00                | 0.80                    | 1.00             | 33.60              | 1,895.71 |
| Surveyor V                     |         | 46.16                    | 42.00                | 2.00                    | 1.00             | 84.00              | 3,877.44 |
| Quality Control Specialist     | Regular | 47.04                    |                      |                         |                  | -                  | •        |
| Site Safety Officer            | Regular | 47.04                    |                      |                         |                  | •                  | -        |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                         |                  | -                  | •        |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                         |                  | -                  | -        |
| UXO Technician IV              | Regular | 40.49                    |                      |                         |                  | -                  | •        |
| UXO Technician III             | Regular | 34,10                    | 40.00                | 2.00                    | 1.00             | B0.00              | 2,728.00 |
| Laborer II                     | Regular | 28.65                    |                      |                         |                  | -                  | •        |
|                                |         |                          |                      |                         |                  | <u> </u>           | -        |
| Subtotal - L                   | abor    |                          |                      |                         |                  | 197.60             | 8,501.15 |

|                                 | Loaded   | Number | Number |          |
|---------------------------------|----------|--------|--------|----------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount   |
| FM Radio, Handheld w/ charger   | 25.69    | 2.00   | 2.00   | 102.76   |
| FM Radio Repeater/Base Station  | 44.97    |        |        | -        |
| Cellular Telephone and Service  | 64.24    |        |        | -        |
| Video Camera                    | 32.12    |        |        | -        |
| Computer                        | 96.36    | 2.00   | 1.00   | 192.72   |
| Brushcutter, power              | 96.36    |        |        | -        |
| Chainsaw                        | 84.24    |        |        | -        |
| EOD Demolition Kit              | 51.39    |        |        | -        |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | •        |
| Schonstedt Magnetic Locator     | 51.39    | 2.00   | 1.00   | 102.78   |
| Explosive Storage magazine      | 44,97    |        | -      | -        |
| Carrier Phase GPS               | 899.35   | 0.50   | 2.00   | 899.3    |
| Surveyor's Kit                  | 64.24    | 2.00   | 1.00   | 128.4    |
| Total Station Survey Equipment  | 835.11   | 2.00   | 1.00   | 1,670.2  |
| Ford Explorer                   | 321.20   | 2.00   | 1.00   | 642.4    |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | -        |
| Air Fare - Round Trip           | 1,220.54 | 1.00   | 2.00   | 2,441.0  |
| Mileage                         | 0.40     | 50.00  | 2,00   | 40.0     |
| Fuel                            | 1.74     | 32.00  | 2.00   | 111.3    |
| Lodging                         | 68.09    | 14.00  | 2.00   | 1,906.5  |
| Meals and Incidentals           | 38.55    | 15.00  | 2.00   | 1,156.5  |
| Project Consumables             | 192.72   | 2.00   | 1.00   | 385.4    |
| Printing and Binding            | 205.56   | 1.00   | 1.00   | 205.5    |
| Shipping                        | 154.17   | 1.00   | 1.00   | 154.1    |
| Site Trailer                    | 963,59   |        |        | -        |
| Electrical Hook Up              | 1,927.17 |        |        | -        |
| Magazine Mobilization           | 770.87   |        |        | -        |
| Donor Explosives                | 1,541.74 |        |        | •        |
| Site Remediation                | 300.00   |        |        | -        |
| Subtotal - Other Direct Costs   |          |        |        | 10,139.3 |
| - 1.5 % 1.45                    |          |        |        | 18,640.4 |
| Total Estimated Costs           |          |        |        | 10,040.4 |

Tash 5 Brush Clearanse

|                                 |         |          |       | Brush Clearance |        |           |                    |  |
|---------------------------------|---------|----------|-------|-----------------|--------|-----------|--------------------|--|
|                                 |         | Londed   | Hours |                 |        |           |                    |  |
|                                 |         | Hously   | Per   | Number          | Number | Estimated |                    |  |
| Labor Cutegory                  |         | Rate     | Week  | Week.           | People | Hours     | Ameunt             |  |
| Program Management I            |         | 82.06    |       |                 |        | •         | -                  |  |
| Project Manager III             |         | 76.92    |       |                 |        | -         | -                  |  |
| Project Manager II              |         | 66.67    |       |                 |        | -         | -                  |  |
| Certified Industrial Hygienist  |         | 74.81    |       |                 |        | -         | •                  |  |
| Engineer II                     |         | 76.92    |       |                 |        | •         | -                  |  |
| Survey Manager                  |         | 56.42    |       |                 |        | -         | •                  |  |
| Surveyor V                      |         | 46.16    |       |                 |        | •         | -                  |  |
| Quality Control Specialist      | Regular | 47.04    |       |                 |        | -         | -                  |  |
| Site Safety Officer             | Regular | 47.04    |       |                 |        | -         | •                  |  |
| UXO Supervisor/Tech VI          | Regular | 53.29    |       |                 |        | •         | -                  |  |
| UXO Supervisor/Tech V           | Regular | 47.04    |       |                 |        | -         | •                  |  |
| UXO Technician IV               | Regular | 40.49    | 40.00 | 2.00            | 1.00   | 80.00     | 3,239.20           |  |
| UXO Technician III              | Regular | 34.10    |       |                 |        | -         | <u>-</u>           |  |
| Laborer II                      | Regular | 28.65    | 40.00 | 2.00            | 3.00   | 240.00    | 6,876.00           |  |
|                                 |         |          |       |                 |        | 320.00    | 10,115.20          |  |
| Subtolal - Labo                 | ·r      |          |       |                 |        | 320.00    | 10,113.20          |  |
|                                 |         |          |       |                 |        |           |                    |  |
|                                 |         | Loaded   |       | Number          | Number |           |                    |  |
| Other Direct Costs              |         | Rate     |       | Weeks           | Units  |           | Amount             |  |
| FM Radio, Handheld w/ charger   |         | 25,69    |       | 2.00            | 1.00   |           | 51.38              |  |
| FM Radio Repeater/Base Station  |         | 44.97    |       |                 |        |           | -                  |  |
| Cellular Telephone and Service  |         | 64.24    |       |                 |        |           |                    |  |
| Video Camera                    |         | 32.12    |       |                 |        |           | -                  |  |
| Computer                        |         | 96.38    |       | i               |        |           | -                  |  |
| Brushcutter, power              |         | 96,36    |       | 2.00            | 2.00   |           | 385.44             |  |
| Chainsaw                        |         | 64.24    |       | 2.00            | 2.00   |           | 256.96             |  |
| EOD Demolition Kit              |         | 51.39    |       |                 |        |           |                    |  |
| Foester Ferrex Ordnance Locator |         | 385.43   |       |                 |        |           | -                  |  |
| Schonstedt Magnetic Locator     |         | 51.39    |       | 2.00            | 4.00   |           | 411.12             |  |
| Explosive Storage magazine      |         | 44.97    |       |                 |        |           | -                  |  |
| Carrier Phase GPS               |         | 899.35   |       |                 |        |           | -                  |  |
| Surveyor's Kit                  |         | 64.24    |       |                 |        |           | -                  |  |
| Total Station Survey Equipment  |         | 835.11   |       |                 |        |           | -                  |  |
| Ford Explorer                   |         | 321.20   |       |                 |        |           | -                  |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67   |       | 2.00            | 1.00   |           | 899.34             |  |
| Air Fare - Round Trip           |         | 1,220.54 |       |                 |        |           | -                  |  |
| Mileage                         |         | 0.40     |       | 50.00           | 1.00   |           | 20.00              |  |
| Fuel                            |         | 1.74     |       | 32.00           | 2.00   |           | 111.36             |  |
| Lodging                         |         | 68.09    |       | 14.00           | 2.00   |           | 1,906.52           |  |
| Meals and Incidentals           |         | 38.55    |       | 15.00           | 2.00   | :         | 1,156.50<br>385.44 |  |
| Project Consumables             |         | 192.72   |       | 2.00            | 1,00   |           | 393.44             |  |
| Printing and Binding            |         | 205.56   |       |                 |        |           | •                  |  |
| Shipping                        |         | 154.17   |       |                 |        |           |                    |  |
| Site Trailer                    |         | 963.59   |       |                 |        |           |                    |  |
| Electrical Hook Up              |         | 1,927.17 |       |                 |        |           | i .                |  |
| Magazine Mobilization           |         | 770.87   |       |                 |        |           |                    |  |
| Donor Explosives                |         | 1,541.74 |       |                 |        |           |                    |  |
| Site Remediation                |         | 300.00   |       |                 |        |           | 5,584.06           |  |
| Subtotal - Other Direct Cos     | 19      |          |       |                 |        |           | 0,004.00           |  |
| Total Estimated Cos             | ts      |          |       |                 |        |           | 15,699.26          |  |
| LOWI ESTIMATED COS              | 14      |          |       |                 |        |           |                    |  |

Task 6 Surfase OE Removal

|                                 |         | Surface OE Removal |       |        |        |                    |           |  |
|---------------------------------|---------|--------------------|-------|--------|--------|--------------------|-----------|--|
|                                 |         | Loaded             | House |        | _      |                    |           |  |
|                                 |         | Hourly             | per   | Number |        | Estimated<br>Hours | Ameunt    |  |
| Labor Category                  |         | Rate               | Week  | Weeks  | People | Heurs              | Amenut    |  |
| Program Management I            |         | 82.06              |       |        |        | •                  | •         |  |
| Project Manager III             |         | 76.92              |       |        |        | -                  | •         |  |
| Project Manager II              |         | 66.67              |       |        |        | •                  | -         |  |
| Certified Industrial Hygienist  |         | 74.81              |       |        |        | -                  | •         |  |
| Engineer II                     |         | 76.92              |       |        |        | -                  | -         |  |
| Survey Manager                  |         | 56.42              |       |        |        | •                  | •         |  |
| Surveyor V                      |         | 46.16              |       |        |        | -                  | -         |  |
| Quality Control Specialist      | Regular | 47.04              |       |        |        | -                  | •         |  |
| Site Safety Officer             | Regular | 47.04              |       |        |        | -                  | •         |  |
| UXO Supervisor/Tech VI          | Regular | 53.29              |       |        |        | •                  |           |  |
| UXO Supervisor/Tech V           | Regular | 47.04              | 40.00 | 3.00   | 1.00   | 120.00             | 5,644.80  |  |
| UXO Technician IV               | Regular | 40.49              | 40.00 | 3.00   | 4.00   | 480,00             | 19,435.20 |  |
| UXO Technician III              | Regular | 34.10              |       |        |        | -                  | -         |  |
| Laborer II                      | Regular | 28.65              |       |        |        | -                  | •         |  |
|                                 |         |                    |       |        |        |                    |           |  |
| Subtotal - Labo                 | r       |                    |       |        |        | 600,00             | 25,080.00 |  |
|                                 |         |                    |       |        |        |                    |           |  |
|                                 |         |                    |       |        |        |                    |           |  |
|                                 |         | Loaded             |       | Number | Number |                    |           |  |
| Other Direct Costs              |         | Rate               |       | Weeks  | Units  |                    | Amount    |  |
| FM Radio, Handheld w/ charger   |         | 25.69              |       | 3,00   | 1.00   |                    | 77.07     |  |
| FM Radio Repeater/Base Station  |         | 44.97              |       |        |        |                    | -         |  |
| Cellular Telephone and Service  |         | 64.24              |       |        |        |                    | -         |  |
| Video Camera                    |         | 32.12              |       |        |        |                    | -         |  |
| Computer                        |         | 98.36              |       |        |        |                    | -         |  |
| Brushcutter, power              |         | 96.36              |       |        |        |                    | -         |  |
| Chainsaw                        |         | 64.24              |       |        |        |                    |           |  |
| EOD Demolition Kit              |         | 51.39              |       | 3.00   | 1.00   |                    | 154.17    |  |
| Foester Ferrex Ordnance Locator |         | 385.43             |       |        |        |                    | -         |  |
| Schonstedt Magnetic Locator     |         | 51.39              |       | 3.00   | 5.00   |                    | 770.85    |  |
| Explosive Storage magazine      |         | 44.97              |       |        |        |                    | -         |  |
| Carrier Phase GPS               |         | 899.35             |       |        |        |                    | -         |  |
| Surveyor's Kit                  |         | 84.24              |       |        |        |                    | -         |  |
| Total Station Survey Equipment  |         | 835,11             |       |        |        |                    | -         |  |
| Ford Explorer                   |         | 321.20             |       |        |        |                    | -         |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67             |       |        |        |                    | •         |  |
| Air Fare - Round Trip           |         | 1,220.54           |       |        |        |                    | -         |  |
| Mileage                         |         | 0.40               |       |        |        |                    | -         |  |
| Fuel                            |         | 1.74               |       |        |        |                    | -         |  |
| Lodging                         |         | 68.09              |       | 35.00  | 3.00   |                    | 7,149.45  |  |
| Meals and Incidentals           |         | 38.55              |       | 35.00  | 3.00   |                    | 4,047.75  |  |
| Project Consumables             |         | 192.72             |       |        |        |                    |           |  |
| Printing and Binding            |         | 205.56             |       |        |        |                    | -         |  |
| Shipping                        |         | 154.17             |       |        |        |                    | -         |  |
| Site Trailer                    |         | 963.59             |       |        |        |                    | -         |  |
| Electrical Hook Up              |         | 1,927.17           |       |        |        |                    | -         |  |
| Magazine Mobilization           |         | 770.87             |       |        |        |                    | -         |  |
| Donor Explosives                |         | 1,541.74           |       | 1,00   | 0.50   |                    | 770.87    |  |
| Site Remediation                |         | 300.00             |       |        |        |                    | -         |  |
| Subtotal - Other Direct Cos     | 3       |                    |       |        |        |                    | 12,970.16 |  |
|                                 |         |                    |       |        |        |                    |           |  |
| Total Estimated Cos             | 18      |                    |       |        |        |                    | 38,050.16 |  |

Corps of Engineers Camp Croft, Spartenburg, S.C.

| Camp Croft, Spartenburg, S.C<br>Engineering Design Cost Estimat<br>Pond Are | e       |                          |                      |                 | Task<br>Secap Te |                    |        |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|
| Labor Category  |         | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |
| Program Management 1  |         | 82.06                    |                      |                 |                  | -                  | -      |
| Project Manager III   |         | 76.92                    |                      |                 |                  | -                  | -      |
| Project Manager II  |         | 66.67                    |                      |                 |                  | -                  | •      |
| Certified Industrial Hygienist  |         | 74.81                    |                      |                 |                  | -                  | -      |
| Engineer II   |         | 76.92                    |                      |                 |                  | -                  | -      |
| Survey Manager  |         | 56.42                    |                      |                 |                  | -                  | -      |
| Surveyor V  |         | 46.16                    |                      |                 |                  | -                  | -      |
| Quality Control Specialist  | Regular | 47.04                    |                      |                 |                  | -                  | -      |
| Site Safety Officer   | Regular | 47.04                    |                      |                 |                  | -                  | -      |
| UXO Supervisor/Tech VI  | Regular | 53.29                    | 40.00                | 0.25            | 1.00             | 10.00              | 532.90 |
| UXO Supervisor/Tech V   | Regular | 47.04                    |                      |                 |                  | -                  | 404.90 |
| UXO Technician IV   | Regular | 40.49                    | 40.00                | 0.25            | 1.00             | 10.00              | 404.90 |
| UXO Technician III  | Regular | 34.10                    |                      |                 |                  | -                  | -      |
| Laborer II  | Regular | 28.65                    |                      |                 |                  | -                  | -      |
|   |         |                          |                      |                 |                  |                    | 937.80 |
| Subtotal - Lab  | юг      |                          |                      |                 |                  | 20.00              | 937.60 |
|   |         |                          |                      |                 |                  |                    |        |
|   |         | Loaded                   |                      | Number          | r Number         |                    |        |
| Other Direct Costs  |         | Rate                     |                      | Weeks           | Units            |                    | Amount |
| FM Radio, Handheld w/ charger   |         | 25.59                    |                      |                 | -                |                    | -      |
| FM Radio Repeater/Base Station  |         | 44.97                    |                      |                 |                  |                    | -      |
| Cellular Telephone and Service  |         | 64.24                    |                      |                 |                  |                    | -      |
| Video Camera  |         | 32.12                    |                      |                 |                  |                    | -      |
| Computer  |         | 96.38                    |                      |                 |                  |                    | •      |
| Brushcutter, power  |         | 96.36                    |                      |                 |                  |                    | -      |
| Chainsaw  |         | 84.24                    |                      |                 |                  |                    | -      |

|                                 | Loaded   | Number N | lumber |         |
|---------------------------------|----------|----------|--------|---------|
| Other Direct Costs              | Rate     | Weeks    | Units  | Amount  |
| FM Radio, Handheld w/ charger   | 25.59    |          |        | -       |
| FM Radio Repeater/Base Station  | 44.97    |          |        | -       |
| Cellular Telephone and Service  | 64.24    |          |        | -       |
| Video Camera                    | 32.12    |          |        | -       |
| Computer                        | 96.36    |          |        | •       |
| Brushcutter, power              | 96.36    |          |        | -       |
| Chainsaw                        | 84.24    |          |        | -       |
| EOD Demolition Kit              | 51.39    |          |        | •       |
| Foester Ferrex Ordnance Locator | 385.43   |          |        | -       |
| Schonstedt Magnetic Locator     | 51.39    |          |        | •       |
| Explosive Storage magazine      | 44.97    | •        |        | -       |
| Carrier Phase GPS               | 899.35   |          |        | -       |
| Surveyor's Kit                  | 64.24    |          |        | -       |
| Total Station Survey Equipment  | 835.11   |          |        | -       |
| Ford Explorer                   | 321.20   |          |        |         |
| Pickup, 4x4, 3/4 Ton            | 449.67   | 1.00     | 0.25   | 112.4   |
| Air Fare - Round Trip           | 1,220.54 |          |        | -       |
| Mileage                         | 0.40     |          |        | -       |
| Fuel                            | 1.74     | 8.00     | 2.00   | 27.8    |
| Ladging                         | 68.09    | 1.00     | 2.00   | 136.1   |
| Meals and Incidentals           | 38.55    | 2.00     | 2.00   | 154.2   |
| Project Consumables             | 192.72   | 1.00     | 1.00   | 192.7   |
| Printing and Binding            | 205.56   |          |        | •       |
| Shipping                        | 154.17   |          |        | •       |
| Site Trailer                    | 963.59   |          |        | 1       |
| Electrical Hook Up              | 1,927.17 |          |        | -       |
| Magazine Mobilization           | 770.87   |          |        | -       |
| Donor Explosives                | 1,541.74 |          |        | -       |
| Site Remediation                | 300.00   |          |        | 623.3   |
| Subtotal - Other Direct Costs   |          |          |        | 023.3   |
|                                 |          |          |        | 1,561.1 |
| Total Estimated Costs           |          |          |        | 1,261.1 |

Task 8 Quality Control

|                                |         |                          |                      | Quality Control         |                  |                    |          |  |  |
|--------------------------------|---------|--------------------------|----------------------|-------------------------|------------------|--------------------|----------|--|--|
| Labor Category                 |         | Loaded<br>Hovely<br>Rate | Hours<br>per<br>Week | Number<br>Wee <u>ks</u> | Number<br>People | Estimated<br>Hours | Amount   |  |  |
| Program Management I           |         | 82.06                    |                      |                         |                  | -                  | -        |  |  |
| Project Manager III            |         | 76.92                    |                      |                         |                  | -                  | -        |  |  |
| Project Manager II             |         | 66.67                    |                      |                         |                  | -                  | -        |  |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                         |                  | -                  | -        |  |  |
| Engineer II                    |         | 76.92                    |                      |                         |                  | -                  | -        |  |  |
| Survey Manager                 |         | 56.42                    |                      |                         |                  | -                  | -        |  |  |
| Surveyor V                     |         | 46.16                    |                      |                         |                  | -                  | -        |  |  |
| Quality Control Specialist     | Regular | 47.04                    | 40.00                | 3.00                    | 1.00             | 120.00             | 5,644.80 |  |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                         |                  | -                  | -        |  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                         |                  | -                  | -        |  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                         |                  | •                  | •        |  |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                         |                  | -                  | -        |  |  |
| UXO Technician III             | Regular | 34.10                    | 40.00                | 3.00                    | 1.00             | 120.00             | 4,092.00 |  |  |
| Laborer II                     | Regular | 28.65                    |                      |                         |                  | -                  | -        |  |  |
| Laborer II                     | 1100-1  |                          |                      |                         |                  |                    |          |  |  |
| Şubtotal - L                   | ahor    |                          |                      |                         |                  | 240.00             | 9,736.80 |  |  |

|                                 | Loaded   | Number | Number<br>Units | Amount           |
|---------------------------------|----------|--------|-----------------|------------------|
| Other Direct Costs              | Rate     | Weeks  |                 | 77.07            |
| FM Radio, Handheld w/ charger   | 25.69    | 3.00   | 1.00            |                  |
| FM Radio Repeater/Base Station  | 44.97    |        |                 | -                |
| Cellular Telephone and Service  | 64.24    |        |                 | -                |
| Video Camera                    | 32.12    |        | ·               | -                |
| Computer                        | 96.36    |        |                 | -                |
| Brushcutter, power              | 96.36    | i      |                 | -                |
| Chainsaw                        | 64.24    |        |                 | -                |
| EOD Demolition Kit              | 51.39    |        |                 | -                |
| Foester Ferrex Ordnance Locator | 385.43   |        |                 | 308.3            |
| Schonstedt Magnetic Locator     | 51,39    | 3.00   | 2.00            | 300.3            |
| Explosive Storage magazine      | 44.97    |        |                 | -                |
| Carrier Phase GPS               | 899.35   |        |                 | _                |
| Surveyor's Kit                  | 64.24    |        |                 | -                |
| Total Station Survey Equipment  | B35.11   |        |                 | 963.6            |
| Ford Explorer                   | 321.20   | 3.00   | 1.00            | 903.0            |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |                 |                  |
| Air Fare - Round Trip           | 1,220.54 | 1.00   | 2.00            | 2,441.0          |
| Mileage                         | 0.40     | 50.00  | 2.00            | 40.0<br>182.7    |
| Fuel                            | 1.74     | 35.00  |                 |                  |
| Lodging                         | 68.09    | 14.00  |                 | 2,859.7          |
| Meals and Incidentals           | 38.55    | 15.00  |                 | 1,734.7<br>578.1 |
| Project Consumables             | 192.72   | 3.00   | 1.00            | 5/6.             |
| Printing and Binding            | 205.56   |        |                 | -                |
| Shipping                        | 154.17   |        |                 | -                |
| Site Trailer                    | 963.59   |        |                 | -                |
| Electrical Hook Up              | 1,927.17 |        |                 | -                |
| Magazine Mobilization           | 770.87   |        |                 | -                |
| Donor Explosives                | 1,541.74 |        |                 |                  |
| Site Remediation                | 300.00   |        |                 | 2.455            |
| Subtotal - Other Direct Costs   |          |        |                 | 9,185.           |
|                                 |          |        |                 | 18,922.          |
| Total Estimated Costs           |          |        |                 | 10,822           |

Tack 9 Final Report

| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>We <u>e</u> h | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |
|--------------------------------|---------|--------------------------|-------------------------------|-----------------|------------------|--------------------|----------|
| Program Management I           |         | 82.06                    | 42.00                         | 0.25            | 1.00             | 10,50              | 861.63   |
| Project Manager III            |         | 76.92                    |                               |                 |                  | -                  |          |
| Project Manager II             |         | 68.67                    | 42.00                         | 1.50            | 1.00             | 63,00              | 4,200.21 |
| Certified Industrial Hygienist |         | 74.81                    |                               |                 |                  | -                  |          |
| Engineer II                    |         | 76.92                    | 42.00                         | 0.75            | 1.00             | 31.50              | 2,422.98 |
| Survey Manager                 |         | 56,42                    | 42.00                         | 1,40            | 1.00             | 58.80              | 3,317.50 |
| Surveyor V                     |         | 46.16                    |                               |                 |                  | -                  | •        |
| Quality Control Specialist     | Regular | 47.04                    |                               |                 |                  | •                  | -        |
| Site Safety Officer            | Regular | 47.04                    |                               |                 |                  | -                  | -        |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                               |                 |                  | -                  | •        |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                               |                 |                  | -                  | -        |
| UXO Technician IV              | Regular | 40.49                    |                               |                 |                  | -                  | •        |
| UXO Technician III             | Regular | 34.10                    |                               |                 |                  | -                  | -        |
| Laborer II                     | Regular | 28.65                    |                               |                 |                  | -                  | -        |
| C450(0)                        |         |                          |                               |                 |                  |                    | <u> </u> |
| Cubtotal I                     | abor    |                          |                               |                 |                  | 183.80             | 10,802.3 |

|                  | 183.80 | 10.802.32 |
|------------------|--------|-----------|
| Subtotal - Labor | (03.00 | 101000    |

| Other Direct Costs              | Loaded<br>Rate | Number N<br>Weeks | umber<br>Units | Amount   |
|---------------------------------|----------------|-------------------|----------------|----------|
| M Radio, Handheld w/ charger    | 25.69          |                   |                | -        |
| M Radio Repeater/Base Station   | 44.97          |                   |                | •        |
| Cellular Telephone and Service  | 64.24          |                   |                | -        |
| /ideo Camera                    | 32.12          |                   |                | •        |
| Computer                        | 96.36          |                   |                | -        |
| Brushoutter, power              | 96.36          |                   |                | •        |
| Chainsaw                        | 64.24          |                   |                | -        |
| EOD Demolition Kit              | 51.39          |                   |                | -        |
| Foester Ferrex Ordnance Locator | 385.43         |                   |                | •        |
| Schonstedt Magnetic Locator     | 51.39          |                   |                | •        |
| Explosive Storage magazine      | 44.97          |                   |                | -        |
| Carrier Phase GPS               | 699.35         |                   |                | -        |
| Surveyor's Kit                  | 64.24          |                   |                | -        |
| Total Station Survey Equipment  | 835.11         |                   |                | -        |
| Ford Explorer                   | 321.20         |                   |                | •        |
| Pickup, 4x4, 3/4 Ton            | 449.67         |                   |                | -        |
| Air Fare - Round Trip           | 1,220.54       | :                 |                | -        |
| Mileage                         | 0.40           |                   |                | -        |
| Fuel                            | 1.74           |                   |                | -        |
| Lodging                         | 68.09          |                   |                | -        |
| Meals and Incidentals           | 38.55          |                   |                | -        |
| Project Consumables             | 192.72         |                   |                | -        |
| Printing and Binding            | 205.58         | 1.00              | 2.00           | 411.1    |
| Shipping                        | 154.17         |                   |                | -        |
| Site Trailer                    | 963.59         |                   |                | -        |
| Electrical Hook Up              | 1,927.17       |                   |                | •        |
| Magazine Mobilization           | 770.87         |                   |                | •        |
| Donor Explosives                | 1,541.74       |                   |                | -        |
| Site Remediation                | 300.00         |                   |                |          |
| Subtotal - Other Direct Costs   |                |                   |                | 411.1    |
| Total Estimated Costs           |                |                   |                | 11,213.4 |

| Engineering Design Cost Estimate<br>Pond Area |         | mate<br>Area             |                      |                 | Task 10<br>Site Remediation |                    |          |  |
|---|---------|--------------------------|----------------------|-----------------|-----------------------------|--------------------|----------|--|
| Labor Category                                |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>Paople            | Estimated<br>Hours | Amenat   |  |
| Program Management I                          |         | 82.06                    |                      |                 |                             | -                  | -        |  |
| Project Manager III                           |         | 76.92                    |                      |                 |                             | -                  | -        |  |
| Project Manager II                            |         | 66.67                    |                      |                 |                             | -                  | •        |  |
| Certified Industrial Hygienist                |         | 74.81                    |                      |                 |                             | •                  | -        |  |
| Engineer II                                   |         | 76,92                    |                      |                 |                             | -                  | -        |  |
| Survey Manager                                |         | 56.42                    |                      |                 |                             | -                  | -        |  |
| Surveyor V                                    |         | 46.16                    |                      |                 |                             | -                  | -        |  |
| Quality Control Specialist                    | Regular | 47.04                    |                      |                 |                             | -                  | •        |  |
| Site Safety Officer                           | Regular | 47.04                    |                      |                 |                             | •                  | -        |  |
| UXO Supervisor/Tech VI                        | Regular | 53.29                    |                      |                 |                             | -                  | •        |  |
| UXO Supervisor/Tech V                         | Regular | 47.04                    |                      |                 |                             | •                  | -        |  |
| UXO Technician IV                             | Regular | 40.49                    |                      |                 |                             | -                  | •        |  |
| UXO Technician III                            | Regular | 34.10                    |                      |                 |                             | •                  | -        |  |
| Laborer II                                    | Regular | 28.65                    |                      |                 |                             |                    | •        |  |
| Subtotal - Lab                                | or      |                          |                      |                 |                             | -                  | <u> </u> |  |
|   |         | Loaded                   | <b></b>              | Numbe           |                             |                    |          |  |
| Other Direct Costs                            | <u></u> | Rate                     |                      | Weeks           | Units                       |                    | Amount   |  |
| FM Radio, Handheld w/ charger                 |         | 25.69                    |                      |                 |                             |                    | -        |  |
| FM Radio Repeater/Base Station                |         | 44.97                    |                      |                 |                             |                    | _        |  |
| Cellular Telephone and Service                |         | 64.24                    |                      |                 |                             |                    |          |  |
| Video Camera                                  |         | 32.12                    |                      |                 |                             |                    | •        |  |
| Computer                                      |         | 96.36                    |                      |                 |                             |                    | •        |  |
| · -   |         | 08.38                    |                      |                 |                             |                    | •        |  |

|                                 | Loaded   | Number Number | <b>*</b> * |
|---------------------------------|----------|---------------|------------|
| Other Direct Costs              | Rate     | Weeks Units   | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    |               | -          |
| FM Radio Repeater/Base Station  | 44.97    |               | -          |
| Cellular Telephone and Service  | 64.24    |               | -          |
| Video Camera                    | 32.12    |               | •          |
| Computer                        | 96.36    |               | ·          |
| Brushcutter, power              | 96.36    |               | •          |
| Chainsaw                        | 64.24    |               | -          |
| EOD Demolition Kit              | 51.39    |               | •          |
| Foester Ferrex Ordnance Locator | 385.43   |               | •          |
| Schonstedt Magnetic Locator     | 51.39    |               | -          |
| Explosive Storage magazine      | 44.97    |               | -          |
| Carrier Phase GPS               | 899.35   |               | -          |
| Surveyor's Kit                  | 64.24    |               | -          |
| Total Station Survey Equipment  | 835,11   |               | -          |
| Ford Explorer                   | 321.20   |               | -          |
| Pickup, 4x4, 3/4 Ton            | 449.67   | ·             | *          |
| Air Fare - Round Trip           | 1,220.54 |               | •          |
| Mileage                         | 0.40     |               | -          |
| Fuel                            | 1.74     |               | -          |
| Lodging                         | 68.09    |               | -          |
| Meals and Incidentals           | 38.55    |               | -          |
| Project Consumables             | 192.72   |               | -          |
| Printing and Binding            | 205.56   |               | -          |
| Shipping                        | 154.17   |               | •          |
| Site Trailer                    | 963.59   |               | -          |
| Etectrical Hook Up              | 1,927.17 |               |            |
| Magazine Mobilization           | 770.87   |               |            |
| Donor Explosives                | 1,541.74 |               | 300        |
| Site Remediation                | 300.00   | 1.00 1.00     | 300        |
| Subtotal - Other Direct Costs   |          |               | 300        |
|                                 |          |               | 300        |
| Total Estimated Costs           |          |               | 300        |

#### Pond Area

## Alternative 7 - Surface and Subsurface OE Clearance of Entire Area to a Depth of One Foot

Alternative 7 requires a complete OE surface and subsurface clearance of 25.23 acres to a depth of one foot. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are considered moderate in the pond area. It is assumed that 40% of the total grids will require brush clearance. During the Engineering Design effort, 2.47 acres of the pond area were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for this effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. Because of the limited effort required to conduct OE removal at this site, a site visit has been determined unnecessary and is omitted from this cost estimate. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance

Search Grid Size: 100' X 100'

25.23 acres/110 (100' X100') search grids

2,47/11 grids 22.76 acres

99 grids

40 grids/9.18 acres .22 acres per grid

#### Production Rates:

Brush Clearance

5 grids per day per four man team (one team)

Land Survey

14 grids per day per two person team (1 team)

Surface Clearance

7.62 grids per day (1.75 acres) per 5 person team (one team)

#### Duration:

Project Management

Land Survey

22 working days/5.5 weeks

8 working days/2 weeks (one team)

Brush Clearance

8 working days/2 weeks -- 5 grids per work day per four-person

team (one team)

Subsurface Clearance

Disposal

13 working days/3.25 weeks (one team) Effort included in Surface Clearance

**Quality Control** 

13 working days/3.25 weeks (2 person team)

Total Duration

18 Working Days/ 4.5 weeks

# OE Surface Clearance/Subsurface Clearance To A Depth of One Foot - Alternative 7

| 8- |  | -, |
|----|--|----|
|    |  |    |

| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week_ | Number<br>Weeks | Number<br>People | Estimated<br>Haura | Amount     |
|--------------------------------|---------|--------------------------|-----------------------|-----------------|------------------|--------------------|------------|
| Program Management I           |         | 82.06                    |                       |                 |                  | 31,50              | 2,584.89   |
| Project Manager III            |         | 76,92                    |                       |                 |                  | 231.00             | 17,788.52  |
| Project Manager II             |         | 66.67                    |                       |                 |                  | 168.00             | 11,200.56  |
| Certified Industrial Hygienist |         | 74,81                    |                       |                 |                  | 16.00              | 1,196.96   |
| Engineer II                    |         | 76.92                    |                       |                 |                  | 63.00              | 4,845.96   |
| Survey Manager                 |         | 56.42                    |                       |                 |                  | 151.20             | 8,530.70   |
| Surveyor V                     |         | 46.16                    |                       |                 |                  | 84.00              | 3,877.44   |
|                                |         |                          |                       |                 |                  |                    |            |
| Quality Control Specialist     | Regular | 47.04                    |                       |                 |                  | 130.00             | 6,115.20   |
| Site Safety Officer            | Regular | 47.04                    |                       |                 |                  | 220.00             | 10,348.80  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                       |                 |                  | 270.00             | 14,388,30  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                       |                 |                  | 130.00             | 6,115.20   |
| UXO Technician IV              | Regular | 40.49                    |                       |                 |                  | 610.00             | 24,698.90  |
| UXO Technician III             | Regular | 34.10                    |                       |                 |                  | 210.00             | 7,161.00   |
| Laborer II                     | Regular | 28.65                    |                       |                 |                  | 240.00             | 6,876.00   |
| Subtotal - L                   | abor    |                          |                       |                 |                  | 2,554.70           | 125,708.43 |

|                                 | Loaded   | Number Number |            |
|---------------------------------|----------|---------------|------------|
| Other Direct Costs              | Rate     | Weeks Units   | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    |               | 321.12     |
| FM Radio Repeater/Base Station  | 44.97    |               | 989,34     |
| Cellular Telephone and Service  | 64.24    |               | 353.32     |
| Video Camera                    | 32.12    |               | 178.66     |
| Computer                        | 96.36    |               | 819,06     |
| Brushcutter, power              | 96.36    |               | 385.44     |
| Chainsaw                        | 64.24    |               | 256.96     |
| EOD Demolition Kit              | 51.39    |               | 167.02     |
| Foester Ferrex Ordnance Locator | 385.43   |               | -          |
| Schonstedt Magnetic Locator     | 51.39    |               | 1,683.03   |
| Explosive Storage magazine      | 44.97    |               | 742.01     |
| Carrier Phase GPS               | 899.35   |               | 899.35     |
| Surveyor's Kit                  | 64.24    |               | 128,48     |
| Total Station Survey Equipment  | 835.11   |               | 1,670.22   |
| Ford Explorer                   | 321.20   |               | 7,307.30   |
| Pickup, 4x4, 3/4 Ton            | 449.67   |               | 2,473.19   |
| Air Fare - Round Trip           | 1,220.54 |               | 9,764.32   |
| Mileage                         | 0.40     |               | 920.00     |
| Fuel                            | 1.74     |               | 836.07     |
| Lodging                         | 68.09    |               | 23,065,50  |
| Meals and Incidentals           | 38.55    |               | 13,791.26  |
| Project Consumables             | 192.72   |               | 4,191.66   |
| Printing and Binding            | 205.56   |               | 1,438,92   |
| Shipping                        | 154.17   |               | 616,68     |
| Site Trailer                    | 963.59   |               | 1,445.39   |
| Electrical Hook Up              | 1,927.17 |               | 1,927.17   |
| Magazine Fencing                | 899.35   |               | 899,35     |
| Magazine Mobilization           | 770.87   |               | 770.87     |
| Donor Explosives                | 1,541.74 |               | 925.04     |
| Site Remediation                | 300.00   |               | 300.00     |
| Subtotal - Other Direct Costs   |          |               | 79,264.73  |
| Total Estimated Costs           |          |               | 204,973,16 |
| TOTAL ESTIMATED COSTS           | 1. 8.5   |               | 204,010.10 |

Task 1 Site Visit

| PONG AIGH   |         |                  | Site Vinit   |        |        |           |        |  |
|---|---------|------------------|--------------|--------|--------|-----------|--------|--|
|   |         | Londed<br>Hourly | Hours<br>per | Number | Number | Estimated |        |  |
| Labor Category  |         | Rate             | Week         | Weeks  | People | Hours     | Amount |  |
| rogram Management I   |         | 82.06            |              |        |        | -         | •      |  |
| Project Manager III   |         | 76.92            |              |        |        | -         | -      |  |
| Project Manager II  |         | 66.67            |              |        |        | -         | •      |  |
| Certified Industrial Hygienist  |         | 74.81            |              |        |        | -         | -      |  |
| Engineer II   |         | 76.92            |              |        |        | -         | _      |  |
| Survey Manager  |         | 56.42            |              |        |        | -         | -      |  |
| Surveyor V  |         | 46.16            | ****         |        |        |           |        |  |
| Cantrol Specialist  | Regular | 47.04            |              |        |        | -         | -      |  |
| Quality Control Specialist  | Regular | 47.04            |              |        |        | -         | -      |  |
| Site Safety Officer<br>UXO Supervisor/Tech VI   | Regular | 53.29            |              |        |        | -         | -      |  |
| UXO Supervisor/Tech V   | Regular | 47.04            |              |        |        | -         | -      |  |
| UXO Techniciaπ IV   | Regular | 40.49            |              |        |        | -         | -      |  |
|   | Regular | 34.10            |              |        |        | -         | -      |  |
| UXO Technician III<br>Laborer II  | Regular | 28.65            |              |        |        | -         | -      |  |
| LAUVIEI II  |         |                  |              |        |        |           |        |  |
| Subtotal - Labo   | or      |                  |              |        |        | •         |        |  |
|   |         |                  |              |        |        |           |        |  |
|   |         | Loaded           |              | Number | Number |           |        |  |
| Other Direct Costs  |         | Rate             |              | Weeks  | Units  |           | Amount |  |
| FM Radio, Handheld w/ charger   |         | 25.69            |              |        |        |           |        |  |
| FM Radio Repeater/Base Station  |         | 44.97            |              |        |        |           |        |  |
| Celiular Telephone and Service  |         | 64.24            |              |        |        |           | ,      |  |
| Video Camera  |         | 32.12            |              |        |        |           |        |  |
| Computer  |         | 96,36            |              |        |        |           |        |  |
| Brushcutter, power  |         | 96.36            |              |        |        |           |        |  |
| Chainsaw  |         | 64,24            |              |        |        |           |        |  |
| EOD Demolition Kit  |         | 51.39            |              |        |        |           |        |  |
| Foester Ferrex Ordnance Locator   |         | 385.43           |              |        |        |           |        |  |
| Schonstedt Magnetic Locator   |         | 51.39            |              |        |        |           |        |  |
| Explosive Storage magazine  |         | 44.97            |              |        |        |           | ļ,     |  |
| Carrier Phase GPS   |         | 899.35           |              |        |        |           |        |  |
| Surveyor's Kit  |         | 64.24            |              |        |        |           |        |  |
| Total Station Survey Equipment  |         | 835.11           |              |        |        |           |        |  |
| Ford Explorer   |         | 321.20           |              |        |        |           |        |  |
| Pickup, 4x4, 3/4 Ton  |         | 449.67           |              |        |        |           |        |  |
| Air Fare - Round Trip   |         | 1,220.54         |              |        |        |           |        |  |
| Mileage   |         | 0.40             |              |        |        |           |        |  |
| Fuel  |         | 1.74             |              |        |        |           |        |  |
| Lodging   |         | 68.09            |              |        |        |           |        |  |
| Meals and Incidentals   |         | 38.55<br>192.72  |              |        |        |           |        |  |
| Project Consumables   |         | 192.72<br>205.56 |              |        |        |           |        |  |
| Printing and Binding  |         | 205.56<br>154.17 |              |        |        |           |        |  |
| Shipping  |         | 963.59           |              |        |        |           |        |  |
| Site Trailer  |         | 1,927,17         |              |        |        |           |        |  |
| Electrical Hook Up  |         | 899.35           |              |        |        |           |        |  |
| Magazine Fencing  |         | 770.87           |              |        |        |           |        |  |
| Magazine Mobilization   |         | 1,541.74         |              |        |        |           |        |  |
| Donor Explosives  |         | 300.00           |              |        |        |           |        |  |
| Site Remediation Subtotal - Other Direct Co   | osts    | 777.00           |              |        |        |           |        |  |
| CONTAIN - Chief Buggi As  |         |                  |              |        |        |           |        |  |
| Total Estimated Co  | osts    | 11 × 80 12       |              |        |        |           |        |  |
| 202 - Cingra (1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 - 1869 |         |                  |              |        |        |           |        |  |

Tash 2 Work Plan

| FUND ALBE  |         |                  |              | Werk Plan |              |                    |           |  |
|--|---------|------------------|--------------|-----------|--------------|--------------------|-----------|--|
|  |         | Loaded<br>Haurly | Hours<br>per | Number    |              | Estimated<br>Hours | Amenat    |  |
| Labor Category                                     |         | Rate             | Week         | Weeks     | People       | 21.00              | 1,723.26  |  |
| Program Management I                               |         | 82.06            | 42.00        | 0.50      | 1.00         | 21.00              | 1,720:20  |  |
| Project Manager III                                |         | 76.92            |              |           | 1.00         | 84.00              | 5,600.28  |  |
| Project Manager II                                 |         | 66.67            | 42.00        | 2.00      |              | 16.00              | 1,196.96  |  |
| Certified Industrial Hygienist                     |         | 74.81            | 40.00        | 0.40      | 1.00<br>1.00 | 21.00              | 1,615.32  |  |
| Engineer If  |         | 76.92            | 42.00        | 0.50      | 1,00         | 33.60              | 1,895.71  |  |
| Survey Manager                                     |         | 56.42            | 42,00        | 0.80      | 1.00         | 35.00              | .,000     |  |
| Surveyor V   |         | 46.16            |              |           |              |                    |           |  |
|  | Bundan  | 47.04            |              |           |              |                    | -         |  |
| Quality Control Specialist                         | Regular | 47.04            |              |           |              |                    | •         |  |
| Site Safety Officer                                | Regular | 47.04            | 40.00        | 1.00      | 1.00         | 40.00              | 2,131.60  |  |
| UXO Supervisor/Tech VI                             | Regular | 53.29            | 40.00        | 1.00      | 1.00         | -                  |           |  |
| UXO Supervisor/Tech V                              | Regular | 47.04            |              |           |              | _                  | _         |  |
| UXO Techniciaπ IV                                  | Regular | 40.49            |              |           |              | _                  | -         |  |
| UXO Technician III                                 | Regular | 34.10            |              |           |              | _                  | _         |  |
| Laborer II   | Regular | 28.65            |              |           |              |                    | _         |  |
|  |         |                  |              |           |              | 215,60             | 14,163.13 |  |
| Subtotal - Labo                                    | ŕ       |                  |              |           |              |                    |           |  |
|  |         |                  |              |           |              |                    |           |  |
|  |         | Loaded           |              | Number    | Number       |                    |           |  |
| Other Direct Costs                                 |         | Rate             |              | Weeks     | Units        |                    | Amount    |  |
| FM Radio, Handheld w/ charger                      |         | 25.69            |              |           | <u> </u>     |                    |           |  |
| FM Radio Repeater/Base Station                     |         | 44.97            |              |           |              |                    | -         |  |
| Callular Telephone and Service                     |         | 64.24            |              |           |              |                    | -         |  |
|  |         | 32.12            |              |           |              |                    | -         |  |
| Video Camera                                       |         | 96.36            |              | 1.00      | 1.00         |                    | 96.36     |  |
| Computer   |         | 96.36            |              |           |              |                    | -         |  |
| Brushcutter, power                                 |         | 64.24            |              |           |              |                    | -         |  |
| Chainsaw   |         | 51.39            |              |           |              |                    | •         |  |
| EQD Demolition Kit Foester Ferrex Ordnance Locator |         | 385.43           |              |           |              |                    | -         |  |
| Schonstedt Magnetic Locator                        |         | 51.39            |              |           |              |                    | •         |  |
| Explosive Storage magazine                         |         | 44.97            |              |           |              |                    | •         |  |
| Carrier Phase GPS                                  |         | 899.35           |              |           |              |                    | -         |  |
| Surveyor's Kit                                     |         | 64.24            |              |           |              |                    | -         |  |
| Total Station Survey Equipment                     |         | 835.11           |              |           |              |                    | -         |  |
| Ford Explorer                                      |         | 321.20           |              | 1.00      | 1.00         |                    | 321,20    |  |
| Pickup, 4x4, 3/4 Ton                               |         | 449.67           |              |           |              |                    | -         |  |
| Air Fare - Round Trip                              |         | 1,220.54         |              | 1.00      | 1.00         |                    | 1,220.54  |  |
| Mileage  |         | 0.40             |              | 50.00     | 1.00         |                    | 20.00     |  |
| Fuel   |         | 1.74             |              | 1.00      | 40.00        |                    | 69.60     |  |
| Lodging  |         | 68.09            |              | 6.00      | 1.00         |                    | 408.54    |  |
| Meals and Incidentals                              |         | 38.55            |              | 7.00      | 1.00         |                    | 269.85    |  |
| Project Consumables                                |         | 192.72           |              | 8.0       | 1.00         |                    | 1,541.78  |  |
| Printing and Binding                               |         | 205.56           |              | 1.00      | 0 2.00       |                    | 411.12    |  |
| Shipping   |         | 154.17           |              |           |              |                    | •         |  |
| Site Trailer                                       |         | 963.59           |              |           |              |                    | •         |  |
| Electrical Hook Up                                 |         | 1,927.17         |              |           |              |                    | -         |  |
| Magazine Fencing                                   |         | 899.35           |              |           |              |                    | -         |  |
| Magazine Mobilization                              |         | 770.87           |              |           |              |                    | -         |  |
| Donor Explosives                                   |         | 1,541.74         |              |           |              |                    | -         |  |
| Site Remediation                                   |         | 300.00           |              |           |              |                    |           |  |
| Subtotal - Other Direct Co                         | sts     |                  |              |           |              |                    | 4,358.97  |  |
|  |         |                  |              |           |              |                    | 18,522.10 |  |
| Total Estimated Co                                 | sts     |                  |              |           |              |                    | 18,522.10 |  |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pond Area

Task 3 Site Management

|   |  | Looded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>House | Amount    |
|---|--|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Category                                |  | 82.06                    |                      |                 |                  | -                  | -         |
| Program Management I                          |  | 76.92                    | 42.00                | 5.50            | 1.00             | 231.00             | 17,768.52 |
| Project Manager III                           |  | 66,67                    |                      |                 |                  | -                  | -         |
| Project Manager II                            |  | 74.81                    |                      |                 |                  | -                  | -         |
| Certified Industrial Hygienist                |  | 76.92                    |                      |                 |                  | -                  | -         |
| Engineer II                                   |  | 56.42                    |                      |                 |                  | -                  | •         |
| Survey Manager                                |  | 46.16                    |                      |                 |                  | -                  | -         |
| Surveyor V                                    |  |                          |                      |                 |                  |                    |           |
| Quality Control Specialist                    | Regular  | 47.04                    |                      |                 |                  | -                  | -         |
| Site Safety Officer                           | Regular  | 47,04                    | 40.00                | 5.50            | 1.00             | 220.00             | 10,348.80 |
| UXO Supervisor/Tech VI                        | Regular  | 53.29                    | 40.00                | 5.50            | 1.00             | 220.00             | 11,723.80 |
| UXO Supervisor/Tech V                         | Regular  | 47.04                    |                      |                 |                  | -                  | -         |
| UXO Technician IV                             | Regular  | 40.49                    |                      |                 |                  | -                  | -         |
| UXO Technician III                            | Regular  | 34.10                    |                      |                 |                  | -                  | -         |
| Laborer II                                    | Regular  | 28.65                    |                      |                 |                  |                    | -         |
|   | -  |                          |                      |                 |                  |                    |           |
| Subtotal - Lab                                | or   |                          |                      |                 |                  | 671,00             | 39,841.12 |
|   |  |                          |                      |                 |                  |                    |           |
|   |  | Loaded                   |                      | Number          | Number           |                    |           |
| Other Direct Costs                            |  | Rate                     |                      | Weeks           | Units            |                    | Amount    |
| FM Radio, Handheld w/ charger                 |  | 25.69                    |                      |                 |                  |                    | -         |
| FM Radio Repeater/Base Station                |  | 44.97                    |                      | 5.50            | 4.00             |                    | 989.34    |
| Cellular Telephone and Service                |  | 64.24                    |                      | 5.50            | 1.00             |                    | 353.32    |
| Video Camera                                  |  | 32.12                    |                      | 5.50            | 1.00             |                    | 176.66    |
| Computer                                      |  | 96.36                    |                      | 5,50            | 1.00             |                    | 529.98    |
| Brushcutter, power                            |  | 96.36                    |                      |                 |                  |                    | -         |
| Chainsaw                                      |  | 64.24                    |                      |                 |                  |                    | •         |
| EOD Demolition Kit                            |  | 51.39                    |                      |                 |                  |                    | -         |
| Foester Ferrex Ordnance Locator               |  | 385.43                   |                      |                 |                  |                    |           |
| Schonstedt Magnetic Locator                   |  | 51.39                    |                      |                 |                  |                    | -         |
| Explosive Storage magazine                    |  | 44.97                    |                      | 5,50            | 3,00             |                    | 742.01    |
| Carrier Phase GPS                             |  | 899,35                   |                      |                 |                  |                    | -         |
|   |  | 64.24                    |                      |                 |                  |                    |           |
| Surveyor's Kit Total Station Survey Equipment |  | 835.11                   |                      |                 |                  |                    | -         |
|   |  | 321.20                   |                      | 5.50            | 3.00             |                    | 5,299.80  |
| Ford Explorer Pickup, 4x4, 3/4 Ton            |  | 449.67                   |                      |                 |                  |                    | -         |
| Air Fare - Round Trip                         |  | 1,220.54                 |                      | 1.00            | 3.00             |                    | 3,661.6   |
| Mileage                                       |  | 0.40                     |                      | 2,000.00        | 1.00             |                    | 800.00    |
| Fuel  |  | 1.74                     |                      | 35.00           | 5.50             |                    | 334.9     |
| Lodging                                       |  | 68.09                    |                      | 21.00           | 5.50             |                    | 7,864.4   |
| Meals and Incidentals                         |  | 38.55                    |                      | 22.00           | 5.50             |                    | 4,664.5   |
| Project Consumables                           |  | 192.72                   |                      | 5.50            | 1.00             |                    | 1,059.9   |
| Printing and Binding                          |  | 205.56                   |                      | 2.00            | 1.00             |                    | 411.1     |
| Shipping                                      |  | 154.17                   |                      | 1.00            | 3.00             |                    | 462.5     |
| Site Trailer                                  |  | 963.59                   |                      | 1.50            | 1.00             |                    | 1,445.3   |
| Electrical Hook Up                            |  | 1,927.17                 |                      | 1.00            | 1.00             |                    | 1,927.1   |
| Magazine Fencing                              |  | 899.35                   |                      | 1.00            | 1.00             |                    | 899.3     |
| Magazine Mobilization                         |  | 770.87                   |                      | 1.00            | 1.00             |                    | 770.8     |
| Donor Explosives                              |  | 1,541.74                 |                      |                 |                  |                    | -         |
| Site Remediation                              |  | 300.00                   |                      |                 |                  |                    |           |
| Subtotal - Other Direct Co                    | osts   |                          |                      |                 |                  |                    | 32,393.0  |
| Total Estimated C                             | osts   |                          |                      |                 |                  |                    | 72,234.1  |
| <b>200</b>                                    | with the same of t |                          |                      |                 |                  |                    |           |

Hours

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Pond Area

### Task 4

| Pond A                         | res                                     |                          |                      | I don -         |                  |                    |          |  |  |  |
|--------------------------------|---|--------------------------|----------------------|-----------------|------------------|--------------------|----------|--|--|--|
| 1 0/12 /                       | • |                          |                      |                 |                  | Land Survey        |          |  |  |  |
| Labor Category                 |   | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amenat   |  |  |  |
| Program Management I           |   | 82.06                    |                      |                 |                  | -                  | •        |  |  |  |
| Project Manager III            |   | 76.92                    |                      |                 |                  | -                  | -        |  |  |  |
| Project Manager II             |   | 66.67                    |                      |                 |                  | -                  | -        |  |  |  |
| Certified Industrial Hygienist |   | 74.81                    |                      |                 |                  | -                  | •        |  |  |  |
| Engineer II                    |   | 76.92                    |                      |                 |                  | -                  | <u>-</u> |  |  |  |
| Survey Manager                 |   | 56.42                    | 42.00                | 0.80            | 1.00             | 33.60              | 1,895.71 |  |  |  |
| Surveyor V                     |   | 46.16                    | 42.00                | 2.00            | 1.00             | 84.00              | 3,877.44 |  |  |  |
|                                |   |                          |                      |                 |                  |                    |          |  |  |  |
| Quality Control Specialist     | Regular                                 | 47.04                    |                      |                 |                  | -                  | -        |  |  |  |
| Site Safety Officer            | Regular                                 | 47.04                    |                      |                 |                  | •                  | •        |  |  |  |
| UXO Supervisor/Tech VI         | Regular                                 | 53.29                    |                      |                 |                  | -                  | -        |  |  |  |
| UXO Supervisor/Tech V          | Regular                                 | 47.04                    |                      |                 |                  | -                  | -        |  |  |  |
| UXO Technician IV              | Regular                                 | 40.49                    |                      |                 |                  | •                  | •        |  |  |  |
| UXO Technician III             | Regular                                 | 34,10                    | 40.00                | 2.00            | 1.00             | 80.00              | 2,728.00 |  |  |  |
| Laborer II                     | Regular                                 | 28.65                    |                      |                 |                  | -                  | -        |  |  |  |
|                                |   |                          |                      |                 |                  |                    | <u> </u> |  |  |  |
| Subtotal - L                   | abor                                    |                          | !                    |                 |                  | 197.60             | 8,501.15 |  |  |  |

| Other Direct Costs  M Radio, Handheld w/ charger  M Radio Repeater/Base Station  Cellular Telephone and Service  //deo Camera | 25.89<br>44.97<br>64.24<br>32.12<br>96.38<br>96.36 | Number<br>Waeks<br>2.00 | Number<br>Units<br>2.00 | Amount 102.76 |
|---|--|-------------------------|-------------------------|---------------|
| M Radio, Handheld w/ charger<br>M Radio Repeater/Base Station<br>Cellular Telephone and Service<br>/ideo Camera               | 25.69<br>44.97<br>64.24<br>32.12<br>98.36          | 2.00                    | 2.00                    |               |
| M Radio Repeater/Base Station<br>Cellular Telephone and Service<br>/ideo Camera   | 44.97<br>64.24<br>32.12<br>96.36                   |                         |                         | 102.76        |
| Cellular Telephone and Service<br>Video Camera  | 64.24<br>32.12<br>98.36                            | 2.00                    | 1.00                    | -             |
| /ideo Camera  | 32.12<br>98.36                                     | 2.00                    | 1.00                    | -             |
| /ideo Camera  | 96.36  | 2.00                    | 4.00                    | -             |
| lomputer  |  | 2.00                    |                         |               |
| Computer  | 96.36  |                         | 1.00                    | 192.72        |
| Brushcutter, power  |  |                         |                         | -             |
| Chainsaw  | 64.24  |                         |                         | -             |
| EOD Demolition Kit  | 51.39  |                         |                         | -             |
| Foester Ferrex Ordnance Locator   | 385.43   |                         |                         |               |
| Schonstedt Magnetic Locator   | 51.39  | 2.00                    | 1.00                    | 102.78        |
| Explosive Storage magazine  | 44.97  |                         |                         | •             |
| Carrier Phase GPS   | 899.35   | 0.50                    | 2.00                    | 899.35        |
| Surveyor's Kit  | 64.24  | 2.00                    | 1.00                    | 128.48        |
| Total Station Survey Equipment  | 635.11   | 2.00                    | 1.00                    | 1,670.22      |
| Ford Explorer   | 321.20   | 2.00                    | 1.00                    | 642.40        |
| Pickup, 4x4, 3/4 Ton  | 449.67   |                         |                         | •             |
| Air Fare - Round Trip   | 1,220.54   | 1.00                    | 2.00                    | 2,441.08      |
| Mileage   | 0.40   | 50.00                   | 2.00                    | 40.00         |
| Fuel  | 1.74   | 32.00                   | 2.00                    | 111.36        |
| Lodging   | 68.09  | 14.00                   | 2.00                    | 1,906.52      |
| Meals and Incidentals   | 38.55  | 15.00                   | 2.00                    | 1,156.50      |
| Project Consumables   | 192.72   | 2.00                    | 1.00                    | 385.44        |
| Printing and Binding  | 205.56   | 1.00                    | 1.00                    | 205.56        |
| Shipping  | 154.17   | 1.00                    | 1.00                    | 154.17        |
| Site Trailer  | 963.59   |                         |                         | •             |
| Electrical Hook Up  | 1,927.17   |                         |                         | •             |
| Magazìne Fenciπg  | 899.35   |                         |                         | -             |
| Magazine Mobilization   | 770.87   |                         |                         | -             |
| Donor Explosives  | 1,541.74   |                         |                         | ·             |
| Site Remediation  | 300.00   |                         |                         | -             |
| Subtotal - Other Direct Costs   |  |                         |                         | 10,139.34     |
|   |  |                         |                         | 48.840.40     |
| Total Estimated Costs   |  |                         |                         | 18,640.49     |

Task 5 Bensh Clearance

|                                 |         |                  | T.0          |        | 2144   | - 0.0     |                      |
|---------------------------------|---------|------------------|--------------|--------|--------|-----------|----------------------|
|                                 |         | Loaded<br>Hourly | Hours<br>per | Number | Number | Estimated |                      |
| Labor Category                  |         | Rate             | Week         | Weeks  | People | Hours     | Amount               |
|                                 |         | 82.06            |              |        |        | -         | -                    |
| Program Management I            |         | 76.92            |              |        |        | -         | •                    |
| Project Manager III             |         | 86.67            |              |        |        | •         | -                    |
| Project Manager II              |         | 74.81            |              |        |        | -         | -                    |
| Certified Industrial Hygienist  |         | 76.92            |              |        |        | -         | -                    |
| Engineer II                     |         | 56.42            |              |        |        | •         | -                    |
| Survey Manager                  |         | 46,16            |              |        |        | _         | -                    |
| Surveyor V                      |         |                  |              |        |        |           |                      |
| Quality Control Specialist      | Regular | 47.04            |              |        |        | -         | -                    |
|                                 | Regular | 47.04            |              |        |        | -         | -                    |
| Site Safety Officer             | Regular | 53.29            |              |        |        | -         | -                    |
| UXO Supervisor/Tech VI          | Regular | 47.04            |              |        |        | •         | -                    |
| UXO Supervisor/Tech V           | Regular | 40.49            | 40.00        | 2.00   | 1.00   | 80.00     | 3,239.20             |
| UXO Technician IV               | Regular | 34.10            |              |        |        | -         | •                    |
| UXO Technician III              | Regular | 28.65            | 40.00        | 2.00   | 3,00   | 240.00    | 6,876.00             |
| Laborer II                      | VeAnigi | 20.04            |              |        |        | <u>-</u>  |                      |
| Subtotal - Labo                 | г       |                  |              |        |        | 320.00    | 10,115.20            |
|                                 |         |                  |              |        |        |           |                      |
|                                 |         |                  | :<br>        |        |        |           |                      |
|                                 |         | Loaded           |              |        | Number |           | Amount               |
| Other Direct Costs              | _       | Rate             |              | Weeks  | Units  |           | 51.38                |
| FM Radio, Handheld w/ charger   |         | 25.69            |              | 2.00   | 1.00   |           | 31.30                |
| FM Radio Repeater/Base Station  |         | 44.97            |              |        |        |           | -                    |
| Cellular Telephone and Service  |         | 64.24            |              | :      |        |           |                      |
| Video Camera                    |         | 32.12            |              |        |        |           | -                    |
| Computer                        |         | 96.38            |              |        |        | <u>.</u>  | 005.44               |
| Brushcutter, power              |         | 96.36            |              | 2.00   |        |           | 385,44               |
| Chainsaw                        |         | 64.24            |              | 2.00   | 2.00   |           | 258.96               |
| EOD Demolition Kit              |         | 51.39            |              |        |        |           | -                    |
| Foester Ferrex Ordnance Locator |         | 385.43           |              |        |        |           | 411.12               |
| Schonstedt Magnetic Locator     |         | 51.39            |              | 2.00   | 4.00   |           | 411.12               |
| Explosive Storage magazine      |         | 44.97            |              |        |        |           | -                    |
| Carrier Phase GPS               |         | 899.35           |              |        |        |           | -                    |
| Surveyor's Kit                  |         | 84.24            |              |        |        |           | _                    |
| Total Station Survey Equipment  |         | 835.11           |              |        |        |           | -                    |
| Ford Explorer                   |         | 321.20           |              |        |        |           | 200.24               |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |              | 2.00   | 1.00   |           | 899,34               |
| Atr Fare - Round Trip           |         | 1,220.54         |              |        |        |           |                      |
| Mileage                         |         | 0.40             |              | 50.00  |        |           | 20.00<br>111,36      |
| Fuel                            |         | 1.74             |              | 32.00  |        |           | 1,906.52             |
| Lodging                         |         | 68.09            |              | 14.00  |        |           | 1,906.52<br>1,156.50 |
| Meals and Incidentals           |         | 38.55            |              | 15.00  |        |           | 385.44               |
| Project Consumables             |         | 192.72           |              | 2.00   | 1.00   |           | 303.44               |
| Printing and Binding            |         | 205.56           |              |        |        |           | _                    |
| Shipping                        |         | 154.17           |              |        |        |           | -                    |
| Site Trailer                    |         | 963.59           |              |        |        |           | _                    |
| Electrical Hook Up              |         | 1,927.17         |              |        |        |           | -                    |
| Magazine Fencing                |         | 899.35           |              |        |        |           |                      |
| Magazine Mobilization           |         | 770.87           |              |        |        |           | 1                    |
| Donor Explosives                |         | 1,541.74         |              |        |        |           | _                    |
| Site Remediation                |         | 300.00           | )            |        |        |           | 5,584.06             |
| Subtotal - Other Direct Co      | 815     |                  |              |        |        |           | 0,204.00             |
|                                 |         |                  |              |        |        |           | 15,699.26            |
| Total Estimated Co              | SIS     |                  |              |        |        |           | :                    |
| 20 5 10 Sept 1860               |         |                  |              |        |        |           |                      |

Tack 4 Surface/Subourface OE Romoval - 1 Feat

| Caber Category  regram Management I  reject Manager III  reject Manager III  rettified Industrial Hygienist  ngineer II  urvey Manager  urveyor V  ruality Control Specialist Regu  XO Supervisor/Tech VI Regu  XO Supervisor/Tech V Regu  XO Technician IV Regu  XO Technician III Regu  aborer II Regu  Subtotal - Labor   | ular 47.04<br>ular 53.29<br>ular 47.04<br>ular 40.49<br>ular 34.10  | Hones<br>per<br>Week |                        | Number<br>People<br>1.00<br>4.00 | 130.00<br>520.00      | 6,115.20<br>21,054.80 |
|--|---|----------------------|------------------------|----------------------------------|-----------------------|-----------------------|
| rogram Management   roject Manager III roject Manager III ertified Industrial Hygienist Ingineer II urvey Manager urveyor V  ruality Control Specialist ite Safety Officer Regu XO Supervisor/Tech VI Regu XO Supervisor/Tech V Regu XO Technician IV Regu XO Technician III Regu aborer II Regu Subtotal - Labor  | 82.06<br>76.92<br>66.67<br>74.81<br>76.92<br>56.42<br>48.16<br>Ular 47.04<br>Ular 53.29<br>Ular 40.49<br>Ular 34.10<br>Ular 28.65 | 40.00                | 3.25<br>3.25<br>Number | 1.00<br>4.00                     | 130.00                | 6,115.20<br>21,054.80 |
| roject Manager III roject Manager III ertified Industrial Hygienist Ingineer II urvey Manager urveyor V  ruality Control Specialist Ite Safety Officer IXO Supervisor/Tech VI IXO Supervisor/Tech V IXO Technician IV IXO Technician III Regulator Reg | 76.92<br>66.67<br>74.81<br>76.92<br>56.42<br>48.16<br>Ular 47.04<br>Ular 53.29<br>Ular 40.49<br>Ular 34.10<br>Ular 28.65          |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| roject Manager III roject Manager III ertified Industrial Hygienist Ingineer II urvey Manager urveyor V  ruality Control Specialist Ite Safety Officer IXO Supervisor/Tech VI IXO Supervisor/Tech V IXO Technician IV IXO Technician III Regulator Reg | 66.67<br>74.81<br>76.92<br>56.42<br>48.16<br>Ular 47.04<br>Ular 53.29<br>Ular 40.49<br>Ular 34.10<br>Ular 28.65                   |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| roject Manager II ertified Industrial Hygienist Ingineer II urvey Manager urveyor V  ruality Control Specialist Regul ite Safety Officer Regul IXO Supervisor/Tech VI Regul IXO Supervisor/Tech V Regul IXO Technician IV Regul IXO Technician III Regul aborer II Regul   | 74.81<br>76.92<br>56.42<br>48.16<br>Mar 47.04<br>Ular 47.04<br>Ular 53.29<br>Mar 40.49<br>Ular 28.65<br>Loaded<br>Rate            |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| ertified Industrial Hygienist Ingineer II Iurvey Manager Iurveyor V Iuality Control Specialist Regul Ite Safety Officer Regul IXO Supervisor/Tech VI Regul IXO Supervisor/Tech V Regul IXO Technician IV Regul IXO Technician III Regul IXO Technician III Regul IXO Technician III Regul IXO Technician III Regul IXO Technician III Regul IXO Technician III Regul IXO Technician III Regul  | 76.92<br>56.42<br>48.16<br>dilar 47.04<br>ular 47.04<br>ular 40.49<br>ular 34.10<br>ular 28.65                                    |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| ngineer II urvey Manager urveyor V  suality Control Specialist Regulite Safety Officer RegulixO Supervisor/Tech VI RegulixO Supervisor/Tech V RegulixO Technician IV RegulixO Technician III RegulixO Technician III Regulix   | 56.42<br>48.16<br>47.04<br>ular 47.04<br>ular 53.29<br>ular 40.49<br>ular 34.10<br>ular 28.65                                     |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| urvey Manager urveyor V  suality Control Specialist Regulite Safety Officer RegulixO Supervisor/Tech VI RegulixO Supervisor/Tech V RegulixO Technician IV RegulixO Technician III RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II RegulixO Technician II Regulix | 48.16  ular 47.04  ular 47.04  ular 47.04  ular 40.49  ular 28.65  Loaded  Rate   |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| urveyor V  suality Control Specialist Regulite Safety Officer Regulite Safety Officer Regulite Supervisor/Tech VI Regulite Supervisor/Tech V Regulite Subtotal - Labor Subtotal - Labor  | ular 47.04 ular 53.29 ular 47.04 ular 40.49 ular 34.10 ular 28.65  Loaded Rate  |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| ite Safety Officer Regulater Safety Officer Regulater Supervisor/Tech VI Regulater Supervisor/Tech VI Regulater Supervisor/Tech VI Regulater Subtotal - Labor Regulater Subtotal - Labor   | ular 47.04 ular 53.29 ular 47.04 ular 40.49 ular 34.10 ular 28.65   |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80<br>-<br>-   |
| ite Safety Officer Regul XO Supervisor/Tech VI Regul XO Supervisor/Tech V Regul XO Technician IV Regul XO Technician III Regul Aborer II Regul Subtotal - Labor  | ular 47.04 ular 53.29 ular 47.04 ular 40.49 ular 34.10 ular 28.65   |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80             |
| XO Supervisor/Tech VI Regul XO Supervisor/Tech V Regul XO Technician IV Regul XO Technician III Regul Aborer II Regul Subtotal - Labor   | ular 53.29 ular 47.04 ular 40.49 ular 34.10 ular 28.65  |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80             |
| XO Supervisor/Tech V Regul XO Technician IV Regul XO Technician III Regul aborer II Regul Subtotal - Labor   | ular 47.04<br>ular 40.49<br>ular 34.10<br>ular 28.65<br>Loaded  |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80             |
| IXO Supervisor/Tech V RegulXO Technician IV RegulXO Technician III RegulXO Technician III Regulaborer II Regulaborer II Regulaborer II Subtotal - Labor  | ular 40.49<br>ular 34.10<br>ular 28.65<br>Loaded  |                      | 3.25                   | 4.00                             | 520.00<br>-<br>-<br>- | 21,054.80             |
| IXO Technician IV ReguliXO Technician III Reguliaborer II Reguliaborer II Subtotal - Labor   | ular 34.10<br>ular 28.65<br>Loaded<br>Rate  | 40.00                | Number                 |                                  | -<br>-                | -                     |
| aborer II Regu<br>Subtotal - Labor   | ular 28.65<br>Loaded<br>Rate  |                      |                        | Number                           | 650.00                | 27,170.00             |
| Subtotal - Labor   | Loaded<br>Rate  |                      |                        | Number                           | 650.00                | 27,1 <u>7</u> 0.00    |
|  | Rate  |                      |                        | Number                           | 650.00                | 27,170.00             |
|  | Rate  |                      |                        | Number                           | 650.00                | 27,170.00             |
| Other Direct Costs   | Rate  |                      |                        | Number                           |                       |                       |
| Other Direct Costs   | Rate  |                      |                        | Number                           |                       |                       |
| Other Direct Costs   | Rate  |                      |                        | Number                           |                       |                       |
| Other Direct Costs   |   |                      |                        |                                  |                       | Amount                |
| THE BRECK COLLO  | 25,69   |                      | Weeks                  | Units                            |                       |                       |
| M Radio, Handheld w/ charger   |   |                      | 3.25                   | 1.00                             |                       | 83.4                  |
| M Radio Repeater/Base Station  | 44.97   |                      |                        |                                  |                       | -                     |
| Cellular Telephone and Service   | 64.24   |                      |                        |                                  |                       | •                     |
| /ideo Camera   | 32.12   |                      |                        |                                  |                       | i -                   |
| Computer   | 96.36   |                      |                        |                                  |                       | •                     |
| Brushcutter, power   | 96.36   |                      |                        |                                  |                       |                       |
| Chainsaw   | 64.24   |                      |                        |                                  |                       | 407.0                 |
| EOD Demolition Kit   | 51.39   |                      | 3.25                   | 1.00                             |                       | 1 <del>6</del> 7.0    |
| Foester Ferrex Ordnance Locator  | 385.43  |                      |                        |                                  |                       |                       |
| Schonstedt Magnetic Locator  | 51.39   |                      | 3.25                   | 5.00                             |                       | B35.0                 |
| Explosive Storage magazine   | 44.97   |                      |                        |                                  |                       | •                     |
| Carrier Phase GPS  | 899.35  |                      |                        |                                  |                       | •                     |
| Surveyor's Kit   | 64.24   |                      |                        |                                  |                       | -                     |
| Total Station Survey Equipment   | B35.11  |                      |                        |                                  |                       | -                     |
| Ford Explorer  | 321.20  |                      | _                      |                                  |                       | 1,461,4               |
| Pickup, 4x4, 3/4 Ton   | 449.67  |                      | 3.25                   | 1.00                             |                       | 1,401.4               |
| Air Fare - Round Trip  | 1,220.54  |                      |                        |                                  |                       | •                     |
| Mileage  | 0.40  |                      |                        |                                  |                       | _                     |
| Fuel   | 1.74  | 1                    |                        |                                  |                       | 7,745.2               |
| Lodging  | 68.09   |                      | 35.00                  |                                  |                       | 4,510.3               |
| Meals and Incidentals  | 38.55   |                      | 36.00                  | 3.25                             |                       | 4,510.                |
| Project Consumables  | 192.72  | 1                    |                        |                                  |                       | •                     |
| Printing and Binding   | 205.56  |                      |                        |                                  |                       |                       |
| Shipping   | 154.1   |                      |                        |                                  |                       | _                     |
| Site Trailer   | 963,5   |                      |                        |                                  |                       | Ī <u> </u>            |
| Electrical Hook Up   | 1,927.1   |                      |                        |                                  |                       | _                     |
| Magazine Fencing   | 899.3   |                      |                        |                                  |                       | _                     |
| Magazine Mobilizatioл  | 770.8   |                      |                        | 0.60                             |                       | 925.                  |
| Donor Explosives   | 1,541.7   |                      | 1.00                   | , 0.60                           |                       |                       |
| Site Remediation   | 300.0   | U                    |                        |                                  |                       | 15,727.               |
| Subtotal - Other Direct Costs  |   |                      |                        |                                  |                       | 19,121.               |
| Total Estimated Costs  |   |                      |                        |                                  |                       | 42,897.               |

Tesk 7 Serap Turn-in

| FONG NIE                        | _       |                  | Serap Turn-In        |                 |                  |                    |          |
|---------------------------------|---------|------------------|----------------------|-----------------|------------------|--------------------|----------|
|                                 |         | Loaded<br>Hourly | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt   |
| Labor Category                  |         | Rate             | WEEK                 | W EE ILS        |                  |                    |          |
| Program Management I            |         | 82.06<br>76.92   |                      |                 |                  | -                  | _        |
| Project Manager III             |         | 76.92<br>66.67   |                      |                 |                  | -                  | _        |
| Project Manager II              |         |                  |                      |                 |                  | _                  | -        |
| Certified Industrial Hygienist  |         | 74.81            |                      |                 |                  |                    | -        |
| Engineer II                     |         | 76.92            |                      |                 |                  | _                  | -        |
| Survey Manager                  |         | 56.42            |                      |                 |                  | _                  | _        |
| Surveyor V                      |         | 46.16            |                      |                 |                  |                    |          |
| G. W. Grand Cassislet           | Regular | 47.04            |                      |                 |                  | <del>-</del>       |          |
| Quality Control Specialist      | Regular | 47.04            |                      |                 |                  |                    | -        |
| Site Safety Officer             | Regular | 53.29            | 40.00                | 0.25            | 1.00             | 10.00              | 532.90   |
| UXO Supervisor/Tech VI          | Regular | 47.04            | ,                    |                 |                  |                    | -        |
| UXO Supervisor/Tech V           | -       | 40.49            | 40.00                | 0.25            | 1.00             | 10.00              | 404.90   |
| UXO Technician IV               | Regular | 34.10            | 70.00                | ¥.=-            |                  | _                  |          |
| UXO Technician III              | Regular | 28.65            |                      |                 |                  | -                  | -        |
| Laborer II                      | Regular | 26,03            |                      |                 |                  | _                  |          |
| Subtotal - Lab                  | 0.0     |                  |                      |                 |                  | 20.00              | 937.80   |
| Subidial - Cab                  | JI j    |                  |                      |                 |                  |                    |          |
|                                 |         |                  |                      |                 |                  |                    |          |
|                                 |         | Loaded           |                      |                 | Number           |                    |          |
| Other Direct Costs              |         | Rate             |                      | Weeks           | Units            |                    | Amount   |
| FM Radio, Handheld w/ charger   |         | 25.69            |                      |                 |                  |                    | -        |
| FM Radio Repeater/Base Station  |         | 44.97            |                      |                 |                  |                    | -        |
| Cellular Telephone and Service  |         | 64.24            |                      |                 |                  |                    | -        |
| Video Camera                    |         | 32.12            |                      |                 |                  |                    | -        |
| Computer                        |         | 96.36            |                      |                 |                  |                    | -        |
| Brushcutter, power              |         | 96.36            |                      |                 |                  | 5                  | •        |
| Chainsaw                        |         | 64.24            |                      |                 |                  |                    | -        |
| EOD Demolition Kit              |         | 51.39            |                      |                 |                  |                    | -        |
| Foester Ferrex Ordnance Locator |         | 385.43           |                      |                 |                  |                    | -        |
| Schonstedt Magnetic Locator     |         | 51.39            |                      |                 |                  |                    | -        |
| Explosive Storage magazine      |         | 44.97            |                      |                 |                  |                    | •        |
| Carrier Phase GPS               |         | 899.35           |                      |                 |                  |                    | -        |
| Surveyor's Kit                  |         | 64.24            |                      |                 |                  |                    | -        |
| Total Station Survey Equipment  |         | 835.11           |                      |                 |                  |                    | •        |
| Ford Explorer                   |         | 321.20           |                      |                 |                  |                    |          |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |                      | 1,00            | 0.25             |                    | 112.42   |
| Air Fare - Round Trip           |         | 1,220.54         |                      |                 |                  | •                  | -        |
| Mileage                         |         | 0.40             |                      |                 |                  |                    |          |
| Fue!                            |         | 1.74             |                      | 16.00           |                  |                    | 27.84    |
| Lodging                         |         | 68.09            |                      | 1.00            |                  |                    | 136.10   |
| Meals and Incidentals           |         | 38.55            |                      | 2.00            |                  |                    | 154.20   |
| Project Consumables             |         | 192.72           |                      | 1.00            | 1,00             |                    | 192.73   |
| Printing and Binding            |         | 205.56           |                      |                 |                  |                    | -        |
| Shipping                        |         | 154.17           |                      |                 |                  |                    | -        |
| Site Trailer                    |         | 963.59           |                      |                 |                  |                    |          |
| Electrical Hook Up              |         | 1,927.17         |                      |                 |                  |                    | •        |
| Magazine Fencing                |         | 899.35           |                      |                 |                  |                    | •        |
| Magazine Mobilization           |         | 770.87           |                      |                 |                  |                    | -        |
| Donor Explosives                |         | 1,541.74         |                      |                 |                  |                    | _        |
| Site Remediation                |         | 300.00           |                      |                 |                  |                    | 623.3    |
| Subtotal - Other Direct Co      | ets     |                  |                      |                 |                  |                    | 023.3    |
| Takal F-11                      | gte     |                  |                      |                 |                  |                    | 1,561.10 |
| Total Estimated Co              | 0 (\$ : |                  |                      |                 |                  |                    |          |

Task 8 Quality Control

|                 | Quality C       | entrol    |           |
|-----------------|-----------------|-----------|-----------|
| Number          | Number          | Estimated | Amount    |
| Weeks           | People          | Hours     | AMPHOL    |
|                 |                 | -         | -         |
|                 |                 | -         | -         |
|                 |                 | -         | -         |
|                 |                 | -         | -         |
|                 |                 | -         | -         |
|                 |                 | -         |           |
|                 |                 |           |           |
|                 |                 | 400.00    | 6,115.20  |
| 3.25            | 1.00            | 130.00    | 6,115.20  |
|                 |                 | -         | •         |
|                 |                 | -         | -         |
|                 |                 | •         | -         |
|                 |                 | -         | -         |
| 3.25            | 1.00            | 130.00    | 4,433.00  |
|                 |                 | -         | -         |
|                 |                 | 260.00    | 10,548.20 |
|                 |                 | 200.00    | 10,010.22 |
|                 |                 |           |           |
| Number<br>Weeks | Number<br>Units |           | Amount    |
| 3.25            | 1.00            |           | 83.49     |
| 3,20            | 1,00            |           | -         |
|                 |                 |           | _         |
|                 |                 | !         | _         |
|                 |                 |           |           |
|                 |                 |           | _         |
|                 |                 |           |           |
|                 |                 |           | _         |
|                 |                 |           | _         |
| 2.05            | 2.00            |           | 334.04    |
| 3.25            | 2.00            |           | 554.0-    |
|                 |                 |           |           |
|                 |                 |           | ·         |
|                 |                 |           | -         |
|                 | 4.00            |           | 1,043.9   |
| 3.25            | 1.00            |           | 1,043.5   |
|                 |                 |           | 2,441.0   |
| 1,00            | 2.00            |           | 40.0      |
| 50.00           | 2.00            |           | 180.9     |
| 32.00           | 3.25            |           | 3,098.1   |
| 14.00           | 3.25            |           | 1,879.3   |
| 15.00           | 3.25            |           |           |
| 3,25            | 1.00            |           | 626.3     |
|                 |                 |           | •         |
|                 |                 |           | •         |
|                 |                 |           | •         |
|                 |                 |           | -         |
|                 |                 |           | •         |
|                 |                 |           | -         |
|                 |                 |           | •         |
|                 |                 |           |           |
|                 |                 |           | 9,727.2   |
|                 |                 |           | 20,275.4  |
|                 |                 |           |           |

Task 9 Final Report

|                                  |         |                 |             |       | Final R | epert     |           |
|----------------------------------|---------|-----------------|-------------|-------|---------|-----------|-----------|
|                                  |         | Londed          | Hours       | » 1   | Number  | Estimated |           |
|                                  |         | Hourly          | per<br>Week | Weeks | People  | Hours     | Amount    |
| Lubar Category                   |         | Rate            | 42.00       | 0.25  | 1,00    | 10.50     | 861.63    |
| Program Management I             |         | 82.06           | 42.00       | 0.25  | 1,00    |           | -         |
| Project Manager III              |         | 76.92<br>66.67  | 42.00       | 2.00  | 1.00    | 84.00     | 5,600.28  |
| Project Manager II               |         | 74.81           | 42.00       | 2.00  | 1.00    | -         | -         |
| Certified Industrial Hygienist   |         | 76.92           | 42.00       | 1.00  | 1.00    | 42.00     | 3,230,64  |
| Engineer II                      |         | 56.42           | 42.00       | 2.00  | 1.00    | 84.00     | 4,739.28  |
| Survey Manager                   |         | 46.16           | 72.00       | 2,00  |         | _         | •         |
| Surveyor V                       |         | 40:12           |             |       |         |           |           |
| Quality Control Specialist       | Regular | 47.04           | _           |       |         | -         | -         |
| Site Safety Officer              | Regular | 47.04           |             |       |         | -         | -         |
| UXO Supervisor/Tech VI           | Regular | 53.29           |             |       |         | -         | •         |
| UXO Supervisor/Tech V            | Regular | 47.04           |             |       |         | •         | -         |
| UXO Technician IV                | Regular | 40.49           |             |       |         | -         | •         |
| UXO Technician III               | Regular | 34.10           |             |       |         | -         | -         |
| Laborer II                       | Regular | 28.65           |             |       |         | -         | -         |
| 24401411                         |         |                 | i           |       |         | <u>-</u>  | <u> </u>  |
| Subtotal - Labor                 | r       |                 |             |       |         | 220.50    | 14,431.83 |
|                                  |         |                 |             |       |         |           |           |
|                                  |         |                 |             |       |         |           |           |
|                                  |         | Loaded          |             |       | Number  |           |           |
| Other Direct Costs               |         | Rate            |             | Weeks | Units   |           | Amount    |
| FM Radio, Handheld w/ charger    |         | 25.69           |             |       |         |           | -         |
| FM Radio Repeater/Base Station   |         | 44.97           |             |       |         |           | -         |
| Cellular Telephone and Service   |         | 64.24           |             |       |         |           | -         |
| Video Camera                     |         | 32.12           |             |       |         |           | •         |
| Computer                         |         | 96.36           |             |       |         |           | -         |
| Brushcutter, power               |         | 96.36           |             |       |         |           | -         |
| Chainsaw                         |         | 64.24           |             |       |         |           | •         |
| EOD Demolition Kit               |         | 51.39           |             |       |         |           | <u> </u>  |
| Foester Ferrex Ordnance Locator  |         | 3B5.43          |             |       |         |           |           |
| Schonstedt Magnetic Locator      |         | 51.39           |             |       |         |           | _         |
| Explosive Storage magazine       |         | 44.97           |             |       |         |           | _         |
| Carrier Phase GPS                |         | 899.35          |             |       |         |           |           |
| Surveyor's Kit                   |         | 64.24<br>835.11 |             |       |         |           | _         |
| Total Station Survey Equipment   |         | 321.20          |             |       |         |           | -         |
| Ford Explorer                    |         | 449.67          |             |       |         |           | _         |
| Pickup, 4x4, 3/4 Ton             |         | 1,220.54        |             |       |         |           | _         |
| Air Fare - Round Trip<br>Mileage |         | 0.40            |             |       |         |           | -         |
| Fuel                             |         | 1.74            |             |       |         |           | -         |
| Lodging                          |         | 68.09           |             |       |         |           | •         |
| Meals and Incidentals            |         | 38.55           |             |       |         |           | -         |
| Project Consumables              |         | 192.72          |             |       |         |           | -         |
| Printing and Binding             |         | 205.56          |             | 1.00  | 2.00    |           | 411.12    |
| Shipping                         |         | 154.17          |             |       |         |           | -         |
| Site Trailer                     |         | 963.59          |             |       |         |           | -         |
| Electrical Hook Up               |         | 1,927.17        |             |       |         |           | -         |
| Magazine Fencing                 |         | 899.35          |             |       |         |           | -         |
| Magazine Mobilization            |         | 770.87          |             |       |         |           | -         |
| Donor Explosives                 |         | 1,541.74        |             |       |         |           | -         |
| Site Remediation                 |         | 300.00          |             |       |         |           |           |
| Subtotal - Other Direct Cos      | ts      |                 |             |       |         |           | 411.12    |
|                                  |         |                 |             |       |         |           | 14,842.95 |
| Total Estimated Cos              | ts      |                 |             |       |         |           | 14,042.00 |
|                                  |         |                 |             |       |         |           |           |

Task 10 Site Remediation

|                                  |         |                |       |        | Site Reme | rdiation  | ,         |
|----------------------------------|---------|----------------|-------|--------|-----------|-----------|-----------|
|                                  |         | [ended         | Hours |        |           |           |           |
|                                  |         | Hourly         | per   | Number |           | Estimated | A         |
| Labor Category                   |         | Rate           | Week  | Weeks  | People    | Hours     | Amount    |
| rogram Management I              |         | 82.06          |       |        |           | -         | -         |
| roject Manager III               |         | 76.92          |       |        |           | -         | -         |
| roject Manager II                |         | 66.67          |       |        |           | -         | _         |
| Certified Industrial Hygienist   |         | 74.81          |       |        |           | _         | -         |
| ingineer II                      |         | 76.92<br>56.42 |       |        |           | _         | _         |
| Survey Manager                   |         | 46.16          |       |        |           |           | _         |
| Surveyor V                       |         | 40.10          |       |        |           |           |           |
| Quality Control Specialist       | Regular | 47.04          | L     |        |           | •         | -         |
| Site Safety Officer              | Regular | 47.04          |       |        |           | -         | -         |
| JXO Supervisor/Tech VI           | Regular | 53.29          |       |        |           | -         | -         |
| JXO Supervisor/Tech V            | Regular | 47.04          |       |        |           | -         | -         |
| JXO Technician IV                | Regular | 40.49          |       |        |           | -         | -         |
| JXO Technician III               | Regular | 34.10          |       |        |           | -         | -         |
| aborer II                        | Regular | 28.65          |       |        |           | •         | -         |
|                                  |         |                |       |        |           |           | <u>+.</u> |
| Subtotal - Lab                   | or      |                |       |        |           |           | -         |
|                                  |         |                |       |        |           |           |           |
|                                  |         | Loaded         |       | Number | Number    |           |           |
| Other Direct Costs               |         | Rate           |       | Weeks  | Units     |           | Amount    |
| M Radio, Handheld w/ charger     |         | 25.69          |       |        | _         |           |           |
| M Radio Repeater/Base Station    |         | 44.97          |       |        |           |           | -         |
| Cellular Telephone and Service   |         | 64,24          |       |        |           |           |           |
| Video Camera                     |         | 32.12          |       |        |           |           | -         |
| Computer                         |         | 96.36          |       |        |           |           | •         |
| Brushcutter, power               |         | 96.36          |       |        |           |           | -         |
| Chainsaw                         |         | 64.24          |       |        |           |           | -         |
| EOD Demolition Kit               |         | 51.39          |       |        |           |           | -         |
| Foester Farrex Ordnance Locator  |         | 385.43         |       |        |           |           | -         |
| Schonstedt Magnetic Locator      |         | 51.39          |       |        |           |           | -         |
| Explosive Storage magazine       |         | 44.97          |       |        |           |           | -         |
| Carrier Phase GPS                |         | 899.35         |       |        |           |           | -         |
| Surveyor's Kit                   |         | 64.24          |       |        |           |           | -         |
| Total Station Survey Equipment   |         | 835.11         |       |        |           |           | •         |
| Ford Explorer                    |         | 321.20         |       |        |           |           | ·         |
| Pickup, 4x4, 3/4 Ton             |         | 449.67         |       |        |           |           | -         |
| Air Fare - Round Trip            |         | 1,220.54       |       |        |           |           | _         |
| Mileage                          |         | 0.40           |       |        |           |           |           |
| Fuel<br>Lodging                  |         | 1.74<br>68.09  |       |        |           |           | -         |
| Lodging<br>Meals and Incidentals |         | 38.55          |       |        |           |           |           |
| Project Consumables              |         | 192.72         |       |        |           |           |           |
| Printing and Biπding             |         | 205.58         |       |        |           |           |           |
| Shipping                         |         | 154.17         |       |        |           |           | -         |
| Site Trailer                     |         | 963.59         |       |        |           |           | -         |
| Electrical Hook Up               |         | 1,927.17       |       |        |           |           | -         |
| Magazine Fencing                 |         | 899.35         |       |        |           |           | -         |
| Magazine Mobilization            |         | 770.87         |       |        |           |           | -         |
| Donor Explosives                 |         | 1,541.74       |       |        |           |           | -         |
| Site Remediation                 |         | 300.00         |       | 1.00   | 1.00      |           | 300.0     |
| Subtotal - Other Direct Co       | ats     |                |       |        |           |           | 300.0     |
|                                  |         |                |       |        |           |           | 200       |
| Total Estimated Co               | ete     |                |       |        |           |           | 300.0     |

## SECTION G-5 COST ESTIMATE FOR THE NATURAL BRUSH/ FOREST AREA

SELECTED REMOVAL ALTERNATIVE

## Natural Brush/Forests - A [Compost Area B]

# Alternative 1 - No Further Action with Limited Action (Surface and Subsurface Clearance of OE over a Selected Area to a Depth of Four Feet)

Alternative 1 requires a complete OE surface clearance of a 5 acre area (area planned for future Compost Area B within the Natural Brush/Forest Area - A). Electronic detection instruments are necessary to detect OE hidden from view by high grasses, brush, and terrain. The work schedule is based on working four 10hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are less intensive than brush clearance for subsurface clearance; therefore, the production effort is established at 5 grids per day per team. It is assumed that approximately 50% of the total grids will require moderate brush clearance efforts. During the Engineering Design effort 0.23 acres were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for the effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition. Due to the limited scope and duration of this clearance effort, a site visit and site trailer/office will not be necessary and have been excluded from this cost estimate.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance Search Grid Size: 100' X 100'

5 acres/22 (100' X100') search grids

0.23 acres

4.77 acres (approximately 5 acres)

21 grids

10.5grids/2.3 acres .22 acres per grid

**Production Rates:** 

Brush Clearance Land Survey Surface Clearance 5 grids per day per four man team (one team @ 5 grids per day)
14 grids per day per two person team (one team @ 14 grids per day)

4.5 grids per day (1 acres) per 5 person team (1 team);

Duration:

Project Management

7 working days/1.75 weeks

Land Survey

2 working days/0.5 week (one team)

Brush Clearance

4 working days/1 week -- 5 grids per work day per four-person

team (one team @ 5 grids per workday)

Surface Clearance

6 working days/ 1.5 week (one five-person teams)

Disposal

Effort included in Surface Clearance

Quality Control

5 working days/.1.25 weeks (2 person team)

**Total Duration** 

7 Working Days/1.75 weeks

## NFA with Limited Surface & Subsurface Clearance of OE to 4 ft - Alternative 1

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A

| Clearance of Compost a           | Area - B |                          | Summary              |                 |                  |                    |           |
|----------------------------------|----------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Category                   |          | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |
| Program Management I             |          | 82.06                    |                      |                 |                  | 27.30              | 2,240.24  |
| Project Manager III              |          | 76.92                    |                      |                 |                  | 73.50              | 5,653.62  |
| Project Manager II               |          | 66.67                    |                      |                 |                  | 147.00             | 9,800.49  |
| Certified Industrial Hygienist   |          | 74.81                    |                      |                 |                  | 12.00              | 897.72    |
| Engineer II                      |          | 76.92                    |                      |                 |                  | 48.30              | 3,715.24  |
| Survey Manager                   |          | 56.42                    |                      |                 |                  | 84.00              | 4,739.28  |
| Surveyor V                       |          | 46.16                    |                      |                 |                  | 21.00              | 969.36    |
|                                  |          |                          | ,                    |                 |                  |                    |           |
| Quality Control Specialist       | Regular  | 47.04                    |                      |                 |                  | 50.00              | 2,352.00  |
| Site Safety Officer              | Regular  | 47.04                    |                      |                 |                  | 70.00              | 3,292.60  |
| UXO Supervisor/Tech VI           | Regular  | 53.29                    |                      |                 |                  | 114.00             | 6,075.06  |
| UXO Supervisor/Tech V            | Regular  | 47.04                    |                      |                 |                  | 60.00              | 2,822.40  |
| UXO Technician IV                | Regular  | 40.49                    |                      |                 |                  | 334.00             | 13,523.66 |
| UXO Technician III               | Regular  | 34.10                    |                      |                 |                  | 70.00              | 2,387.00  |
| Laborer II                       | Regular  | 28.65                    |                      |                 |                  | 240.00             | 6,876.00  |
| week of the second second second |          | 19480                    |                      |                 |                  | -                  | -         |
|                                  | - Labor  |                          |                      |                 |                  | 1,351.10           | 65,344.87 |

| Other Direct Costs         Rate         Weeks         Units         Amount           FM Radio, Handheld w/ charger         25.69         188         188           FM Radio Repeater/Base Stelion         44.97         358           Cellular Telephone and Service         64.24         128           Video Camera         32.12         64           Computer         96.36         337           Brushoutler, power         96.36         385           Chainsaw         64.24         128           ECD Demolition Kit         51.39         77           Foester Ferrex Ordnance Locator         335.43         33           Schonsted Magnetic Locator         51.39         873           Explosive Storage magazine         44.97         179           Carrier Phase GPS         899.35         899           Surveyor's Kit         64.24         32           Total Station Survey Equipment         335.11         835           Ford Explorer         321.20         1,043           Pickup, Ax4, 34 Ton         449.67         1,043           Mileage         0.40         552           Fuel         1,74         532           Lodging         68.09         7,489<   |                                 |          |          |               | 3          |
|--|---------------------------------|----------|----------|---------------|------------|
| FM Radio, Handheld w/ charger  |                                 |          | Loaded   | Number Number |            |
| FM Radio Repeater/Base Station Cellular Telephone and Service Cellular Telephone and Service 64.24 128 64 Computer 96.36 337 Brushcutter, power Chainsaw 64.24 128 CD Demolition Kit 51.39 FOSster Ferrex Ordnance Locelor Schonsted Magnetic Locator Schonsted Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit 64.24 128 Surveyor's Kit 64.24 32 Total Station Survey Equipment 835.11 835 Ford Explorer 321.20 1,043 Ford Explorer 1,043 Ford Explorer 1,044 552 Fuel 1,74 552 Fuel 1,74 553 Meals and Incidentats 1,043 552 Shipping 68.09 Meals and Incidentats 1,043 Shipping 1,044 Shipping 1,045 Site Trailer Electrical Hook Up 1,927.17 Magazine Fencing Magazine Fencing Magazine Fencing Magazine Fencing Magazine Fencing Site Remediation - Pine Farm 300.00 35,134  |                                 |          |          | weeks Units   |            |
| Cellular Telephone and Service  Cellular Telephone and Service  Ordeo Camera  32.12  Computer  96.36  Surshcutter, power  Chainsaw  64.24  ECD Demolition Kit  51.39  Foester Ferrex Ordnance Locator  Schonssedt Magnetic Locator  51.39  Sephosive Storage magazine  44.97  Carrier Phase GPS  Surveyor's Kit  64.24  32.12  87.76  67.39  89.35  Surveyor's Kit  64.24  32.10  Catal Station Survey Equipment  835.11  835. |                                 |          |          |               | 186.25     |
| Section   Sect   | FM Radio Repeater/Base Station  |          |          |               | 359.76     |
| Second Computer   96.36   337   337   337   337   3385     | Cellular Telephone and Service  | product. |          |               | 126.48     |
| Brushoutter, power 96.36 Chainsaw 64.24 EDD Demolition Kit 51.39 Foester Ferrex Ordnance Locator 385.43 Schornstedt Magnetic Locator 51.39 Explosive Storage magazine 44.97 Carrier Phase CPS 889.35 Surveyor's Kit 64.24 Total Station Survey Equipment 835.11 Bottle Station Survey Equipment 321.20 Total Station Survey Equipment 1,043 Pickup, 4x4, 3/4 Ton 449.67 All Fare - Round Trip 1,220.54 Alleage 0,40 Fuel 1.74 Society | Video Camera                    | 4, 14    |          |               | 64.24      |
| Chainsaw   64.24   128   | Computer                        |          |          |               | 337.26     |
| ### Ste Printing and Binding ### Ste Project Consumables # | Brushcutter, power              |          | 96.36    |               | 385.44     |
| Sector   S   | Chainsew                        |          | 64.24    |               | 128.48     |
| Schonstedt Magnetic Locator       51.39         Explosive Storage magazine       44.97         Carrier Phase GPS       899.35         Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3¼ Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       36,134  | EQD Demolition Kit              |          | 51.39    |               | 77.09      |
| Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Ford Explorer Carrier Phase GPS Surveyor's Kit Ford Explorer 321.20 1,043 Pickup, 4x4, 3/4 Ton 449.67 Ali Fare - Round Trip 1,220.54 Mileage 0,40 Fuel Lodging 68.09 Meals and Incidentals 7,489 Meals and Incidentals 835.55 Project Consumables Project Consumables 192.72 Printing and Binding Shipping 154.17 Site Trailer Electrical Hook Up Magazine Mobilization Donor Explosives 19.272 Project Costs  899.35 899.3 | Foester Ferrex Ordnance Locator |          | 385.43   |               |            |
| A4.97   Carrier Phase GPS   899.35      | Schonstedt Magnetic Locator     |          | 51.39    |               | 873.64     |
| Carrier Phase GPS       899.35       899.35         Surveyor's Kit       64.24       32         Total Station Survey Equipment       835.11       835         Ford Explorer       321.20       1,043         Pickup, 4x4, 3/4 Ton       449.67       1,011         Air Fare - Round Trip       1,220.54       9,764         Mileage       0.40       552         Fuel       1.74       532         Lodging       68.09       7,489         Meals and Incidentals       38.55       4,279         Project Consumables       192.72       2,794         Printing and Binding       205.56       1,438         Shipping       154.17       616         Site Trailer       963.59       59         Electrical Hook Up       1,927.17       599.35         Magazzine Mobilization       770.87       770         Donor Explosives       1,541.74       154         Site Remediation - Pine Farm       300.00       36,134   |                                 |          | 44.97    |               | 179.88     |
| Sast   |                                 |          | 899.35   |               | 899.35     |
| Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Station Survey Equipment   Sacrat Survey Equipmen   | Surveyor's Kit                  |          | 64.24    |               | 32.12      |
| 1,043   1,043   1,043   1,043   1,011   1,220.54   1,011   1,220.54   1,011   1,220.54   1,011   1,220.54   1,011   1,220.54   1,043   1,011   1,220.54   1,74   1,043   1,0   |                                 |          | 835.11   |               | 835.11     |
| Aliferate  |                                 |          | 321,20   |               | 1,043.90   |
| Air Fare - Round Trip Air Fare - Round Trip Mileage Fuel 1,220.54  Jodging 1,220.54  1,74  532  Jodging 68.09  Meals and Incidentals 38.55  Printing and Binding 164.17  Shipping 154.17  Site Trailer Electrical Hook Up Megazine Fencing Megazine Mobilization Donor Explosives Site Remediation - Pine Farm Subtotal - Other Direct Costs  3,764  1,220.54  9,764  552  568  7,489 | - ·                             |          | 449.67   |               | 1,011.76   |
| Mileage       0.40         Fuel       1.74         Lodging       68.09         Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       36,134  |                                 |          | 1,220,54 |               | 9,764.32   |
| 1.74   |                                 |          |          |               | 552.00     |
| Codging  | •                               |          | 1.74     |               | 532.44     |
| Weals and Incidentals       38.55       4,279         Project Consumables       192.72       2,794         Printing and Binding       205.56       1,438         Shipping       154.17       616         Site Trailer       963.59       616         Electracel Hook Up       1,927.17       899.35         Magazine Fencing       899.35       899         Magazine Mobilization       770.87       770         Conor Explosives       1,541.74       154         Site Remediation - Pine Farm       300.00       300         Subtotal - Other Direct Costs       36,134  |                                 |          | 68.09    |               | 7,489.90   |
| Project Consumables       192.72       2,794         Printing and Binding       205.56       1,438         Shipping       154.17       616         Site Trailer       963.59       516         Electrical Hook Up       1,927.17       517         Magazine Fencing       899.35       899         Magazine Mobilization       770.87       770         Donor Explosives       1,541.74       154         Site Remediation - Pine Farm       300.00       300         Subtotal - Other Direct Costs       36,134   |                                 |          | 38.55    |               | 4,279.05   |
| Printing and Binding       205.56       1,438         Shipping       154.17       616         Site Trailer       963.59       516         Electrical Hook Up       1,927.17       517         Magazine Fencing       899.35       899         Magazine Mobilization       770.87       770         Donor Explosives       1,541.74       154         Site Remediation - Pine Farm       300.00       300         Subtotal - Other Direct Costs       36,134  |                                 |          | 192.72   |               | 2,794,44   |
| 154.17   616   |                                 |          | 205.56   |               | 1,438.92   |
| Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       36,134  |                                 |          | 154,17   |               | 616.68     |
| Electrical Hook Up 1,927.17  Magazine Fencing 899.35 899  Magazine Mobilization 770.87 770  Conor Explosives 1,541.74 154  Site Remediation - Pine Ferm 300.00 300  Subtotal - Other Direct Costs 36,134   | ,, <del>-</del>                 |          | 963.59   |               | -          |
| Magazine Fencing         899.35         899           Magazine Mobilization         770.87         770           Conor Explosives         1,541.74         154           Site Remediation - Pine Farm         300.00         300           Subtotal - Other Direct Costs         36,134  |                                 |          | 1.927.17 |               | -          |
| Magazine Mobilization         770.87         770           Conor Explosives         1,541.74         154           Site Remediation - Pine Farm         300.00         300           Subtotal - Other Direct Costs         36,134  | -· •                            |          |          |               | 899.35     |
| Conor Explosives         1,541.74         154           Site Remediation - Pine Farm         300.00         300           Subtotal - Other Direct Costs         36,134   |                                 |          | 770.87   |               | 770.87     |
| Site Remediation - Pine Farm 300.00 300 Subtotal - Other Direct Costs 36,134   |                                 |          |          |               | 154.17     |
| Subtotal - Other Direct Costs 36,134   | - · · · - •                     |          |          |               | 300.00     |
|  | •                               | Costs    |          |               | 36,134.90  |
| Total Entirepted Coulds 101 470  | Section                         |          |          |               |            |
| TUT-917  | Total Estimated 0               | Costs    |          |               | 101,479.77 |

Corps of Engineers

Total Estimated Costs

Corps of Engineers
Camp Croft, Spertenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Tesk 1 Site Visit

| Clossialing of Collisco        | \$4 <b>∟</b> 11041 - ∩ |                          |                      |                 |                  |                    |        |
|--------------------------------|------------------------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|
| Labor Category                 |                        | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount |
| Program Management I           |                        | 82.06                    | -                    | -               | •                | •                  | -      |
| Project Manager III            |                        | 76.92                    |                      |                 |                  | •                  | -      |
| Project Manager II             |                        | 66.67                    | •                    | •               | -                | •                  | -      |
| Certified Industrial Hygienist |                        | 74.81                    |                      |                 |                  | -                  | •      |
| Engineer II                    |                        | 76.92                    |                      |                 |                  |                    | •      |
| Survey Manager                 |                        | 56.42                    |                      |                 |                  |                    | •      |
| Surveyor V                     |                        | 48.16                    |                      |                 |                  | -                  | -      |
|                                |                        |                          |                      |                 |                  |                    |        |
| Quality Control Specialist     | Regular                | 47.04                    |                      |                 |                  | -                  | •      |
| Site Safety Officer            | Regular                | 47.04                    |                      |                 |                  | -                  | •      |
| UXO Supervisor/Tech VI         | Regular                | 53.29                    | -                    | -               | •                | •                  | -      |
| UXO Supervisor/Tech V          | Regular                | 47.04                    |                      |                 |                  | -                  | •      |
| UXO Technician IV              | Regutar                | 40.49                    |                      |                 |                  | -                  | •      |
| UXO Technician III             | Regular                | 34.10                    |                      |                 |                  | •                  | -      |
| Laborer II                     | Regular                | 28.65                    |                      |                 |                  | •                  | -      |
|                                | •                      |                          |                      |                 |                  | <u> </u>           |        |
| Subto                          | tal - Labor            |                          |                      |                 |                  |                    | •      |
|                                |                        |                          |                      |                 |                  |                    |        |

| Subjudia - Caron i                    |         |          |  |        |        |   |        |
|---------------------------------------|---------|----------|--|--------|--------|---|--------|
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |         |          |  |        |        |   |        |
|                                       |         | Loaded   |  | Number | Number |   |        |
| Other Direct Costs                    |         | Rate     |  | Weeks  | Units  |   | Amount |
| FM Radio, Handheld w/ charger         | 1       | 25.89    |  |        |        |   | •      |
| FM Radio Repeater/Base Station        |         | 44.97    |  |        |        |   | •      |
| Cellular Telephone and Service        |         | 64.24    |  | -      | -      |   |        |
| Video Camera                          |         | 32.12    |  | •      | •      |   |        |
| Computer                              |         | 96.36    |  |        |        |   |        |
| Brushcutter, power                    |         | 96.36    |  |        |        |   | -      |
| Chainsaw                              |         | 64.24    |  |        |        |   | -      |
| EOD Demolition Kill                   |         | 51.39    |  |        |        |   | -      |
| Foester Ferrex Ordnance Locator       |         | 385.43   |  | -      | •      |   | -      |
| Schonstedt Magnetic Locator           |         | 51.39    |  | -      | •      |   | -      |
| Explosive Storage magazine            |         | 44.97    |  | -      | •      |   | -      |
| Carrier Phase GPS                     |         | 899.35   |  | •      |        |   |        |
| Surveyor's Kit                        |         | 64.24    |  | -      | -      |   |        |
| Total Station Survey Equipment        |         | 835.11   |  | -      | -      |   | -      |
| Ford Explorer                         |         | 321.20   |  | -      | -      | · | -      |
| Pickup, 4x4, 3/4 Ton                  |         | 449.67   |  | -      | -      |   |        |
| Air Fare - Round Trip                 |         | 1,220.54 |  | -      | -      |   |        |
| Mileage                               |         | 0.40     |  |        | -      |   |        |
| Fuel                                  |         | 1.74     |  | -      | •      |   | -      |
| Lodging                               |         | 68.09    |  | -      | -      |   | -      |
| Meals and incidentals                 | A 12 19 | 38,55    |  | -      | -      |   | -      |
| Project Consumables                   |         | 192.72   |  | -      | -      |   | -      |
| Printing and Binding                  |         | 205.56   |  |        |        |   |        |
| Shipping                              |         | 154.17   |  |        |        |   |        |
| Site Trailer                          |         | 963.59   |  |        |        |   | -      |
| Electrical Hook Up                    |         | 1,927.17 |  |        |        |   | -      |
| Magazine Fencing                      |         | 699.35   |  |        |        |   |        |
| Magazine Mobilization                 |         | 770.87   |  |        |        |   |        |
| Donor Explosives                      |         | 1,541.74 |  |        |        |   | -      |
| Site Remediation - Pine Farm          |         | 300.00   |  |        |        |   |        |
| Subtotal - Other Direct Costs         |         |          |  |        |        |   |        |
|                                       |         |          |  |        |        |   |        |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Task 2 Work Plan

| Clearance of Compost Area - E                          | Work Plan |                  |              |                 |                 |           |                |
|--|-----------|------------------|--------------|-----------------|-----------------|-----------|----------------|
|  |           | Loaded<br>Hourly | Hours<br>per | Number          | Number          | Estimated |                |
| Labor Category   |           | Rate             | Week         | Weeks           | People          | Hours     | Amount         |
| Program Management I                                   |           | 82.06            | 42.00        | 0.40            | 1.00            | 16.80     | 1,378.61       |
| Project Manager III                                    |           | 76.92            |              |                 |                 | •         | •              |
| Project Manager II                                     |           | 66.67            | 42.00        | 1.50            | 1.00            | 63.00     | 4,200.21       |
| Certified Industrial Hygienist                         |           | 74.81            | 40.00        | 0.30            | 1.00            | 12.00     | 697.72         |
| Engineer II  |           | 76.92            | 42.00        | 0.40            | 1.00            | 16.80     | 1,292.26       |
| Survey Manager   |           | 56.42            | 42.00        | 0.50            | 1.00            | 21.00     | 1,184.82       |
| Surveyor V   |           | 46.16            |              |                 |                 | -         | •              |
|  | -         |                  |              |                 |                 |           | 15             |
| Quality Control Specialist                             | Regular   | 47.04            |              |                 |                 | •         | -              |
| Site Safety Officer                                    | Regular   | 47.04            |              |                 |                 | •         | -              |
| UXO Supervisor/Tech VI                                 | Regular   | 53.29            | 40.00        | 0.75            | 1.00            | 30.00     | 1,598.70       |
| UXO Supervisor/Tech V                                  | Regular   | 47.04            |              |                 |                 | -         | -              |
| UXO Technician IV                                      | Regutar   | 40.49            |              |                 |                 | •         | •              |
| UXO Technician III                                     | Regular   | 34.10            |              |                 |                 | •         | •              |
| Laborer II   | Regular   | 28.65            |              |                 |                 |           | -              |
| 2 d  |           |                  |              |                 |                 | -         | <u> </u>       |
| Subtotal - Labo  |           |                  |              |                 |                 | 159.60    | 10,552.32      |
|  |           |                  |              |                 |                 |           |                |
|  |           |                  |              |                 | Alexandres      |           | 10 11 + 49 + 5 |
| Office Charles   |           | Loaded<br>Rate   |              | Number<br>Weeks | Number<br>Units |           | Amount         |
| Other Direct Costs                                     | -         |                  |              | 110013          | UIBS            |           | CIIIOIR        |
| FM Radio, Handheld w/ charger                          |           | 25.69            |              |                 |                 |           | -              |
| FM Radio Repeater/Base Station                         |           | 44.97            |              |                 |                 |           | •              |
| Cellular Telephone and Service                         |           | 64.24<br>32.12   |              |                 |                 |           | •              |
| Video Camera   |           | 96.36            |              | 1.00            | 1.00            |           | 96.36          |
| Computer   |           | 96.36            |              | 1.00            | 1.00            |           | 90.30          |
| Brushcutter, power                                     |           | 80.30<br>64.24   |              |                 |                 |           | •              |
| Chainsaw   |           | 51.39            |              |                 |                 |           | -              |
| EOD Demolition Kill<br>Foester Ferrex Ordnance Locator | 15        | 385,43           |              |                 |                 |           | -              |
|  |           | 51.39            |              |                 |                 |           |                |
| Schonstedt Magnetic Locator Explosive Storage magazine |           | 44.97            |              |                 |                 |           | _              |
| Carrier Phase GPS                                      |           | 899,35           |              |                 |                 |           | _              |
| Surveyor's Kit   |           | 64.24            |              |                 |                 |           | _              |
| Total Station Survey Equipment                         |           | 835.11           |              |                 |                 |           |                |
| Ford Explorer  |           | 321.20           |              | 1,00            | 1.00            |           | 321.20         |
| Pickup, 4x4, 3/4 Ton                                   |           | 449.67           |              | 1.00            | 1.00            |           | -              |
| Air Fare - Round Trio                                  |           | 1.220.54         |              | 1.00            | 1.00            |           | 1,220.54       |
| Mileage  |           | 0.40             |              | 50.00           | 1.00            |           | 20.00          |
| Fuel   |           | 1.74             |              | 1.00            | 40.00           |           | 69.60          |
| Lodging  |           | 68.09            |              | 6.00            | 1.00            |           | 408.54         |
| Meals and incidentals                                  |           | 38.55            |              | 7.00            | 1.00            |           | 269.85         |
| Project Consumables                                    |           | 192.72           |              | 8.00            | 1.00            |           | 1.541.78       |
| Printing and Binding                                   |           | 205.56           |              | 1.00            | 2.00            |           | 411.12         |
| Shipping   |           | 154.17           |              |                 |                 |           | -              |
| Site Trailer   |           | 963,59           |              |                 |                 |           | -              |
| Electrical Hook Up                                     |           | 1,927.17         |              |                 |                 |           |                |
| Magazine Fencing                                       |           | 899.35           |              |                 |                 |           | -              |
| Magazine Mobilization                                  |           | 770,87           |              |                 |                 |           | -              |
| Donor Explosives                                       |           | 1,541.74         |              |                 |                 |           | -              |
|  |           |                  |              |                 |                 |           |                |
| Site Remediation - Pine Farm                           |           | 300.00           |              |                 |                 |           | 4,358.97       |

14,911.29

Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Task 3 Site Management

| Labor Category                  |       | i.ceded<br>Hourly<br>Rate   | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours   | Amount    |
|---------------------------------|-------|-----------------------------|----------------------|-----------------|------------------|--|-----------|
|                                 |       |                             | HOOK                 | Proons          | r dopic          | 110015   |           |
| Program Management I            |       | 82.06<br>76.92              | 42.00                | 1.75            | 1.00             | 73.50  | 5,653.62  |
| Project Manager III             |       | 70.92<br>66.67              | 7200                 | 1.75            | 1.00             | ,,,,,,,  | 0,000.02  |
| Project Manager II              |       | 74.81                       |                      |                 |                  | -  | _         |
| Certified Industrial Hygienist  |       | 7 <del>4</del> .61<br>76.92 |                      |                 |                  | _  | _         |
| Engineer II                     |       | 76.92<br>56.42              |                      |                 |                  | _  | -         |
| Survey Manager                  |       | . 30.42<br>46.16            |                      |                 |                  | -  |           |
| Surveyor V                      | . !   | 40,10                       |                      |                 |                  |  |           |
| Overline Courtee) Conscipling   | gular | 47.04                       |                      |                 |                  | •  |           |
|                                 | gular | 47.04                       | 40.00                | 1.75            | 1.00             | 70.00  | 3,292.80  |
| •                               | gular | 53.29                       | 40.00                | 1.75            | 1.00             | 70.00  | 3,730.30  |
|                                 | gular | 47.04                       | 70.00                | 1.70            | (,00             | , 5.55   | -         |
|                                 | -     | 40.49                       |                      |                 |                  | _  |           |
|                                 | gular | 34,10                       |                      |                 |                  | _  | _         |
|                                 | gutar | 28.65                       |                      |                 |                  | _  | _         |
| Laborer II Re                   | gular | 20.00                       |                      |                 |                  | _  |           |
| Contrated Labor                 |       |                             |                      |                 |                  | 213.50   | 12,676.72 |
| Subtotal - Labor                |       |                             |                      |                 | 1                | 213,30   | 12,010.72 |
|                                 |       |                             |                      |                 |                  |  |           |
| :                               |       | Loaded                      |                      | Number          | Number           |  |           |
| Other Direct Costs              |       | Rate                        |                      | Weeks           | Units            |  | Amount    |
|                                 |       |                             |                      | 110010          | OI III           | The state of the s | , unoun   |
| FM Radio, Handheld w/ charger   |       | 25.69                       |                      | 0.00            |                  |  | 359.76    |
| FM Radio Repeater/Base Station  |       | 44.97                       |                      | 2.00            | 4.00             |  | 128.48    |
| Cellular Telephone and Service  |       | 64.24                       |                      | 200             | 1.00             |  |           |
| Video Camera                    |       | 32.12                       |                      | 2.00            | 1.00             |  | 64.24     |
| Computer                        |       | 96.36                       |                      | 2.00            | 1.00             |  | 192.72    |
| Brushcutter, power              |       | 96.36                       |                      |                 |                  |  | -         |
| Chainsaw                        |       | 64.24                       |                      |                 |                  |  | -         |
| EOD Demolition Kit              |       | 51.39                       |                      |                 |                  |  | -         |
| Foester Ferrex Ordnance Locator |       | 385.43                      |                      |                 |                  |  | -         |
| Schonstedt Magnetic Locator     |       | 51.39                       |                      |                 |                  |  | 470.00    |
| Explosive Storage magazine      |       | 44.97                       |                      | 200             | 2.00             |  | 179.88    |
| Carrier Phase GPS               |       | 899.35                      |                      |                 |                  |  | •         |
| Surveyor's Kil                  |       | 64.24                       |                      |                 | - 1              |  | -         |
| Total Station Survey Equipment  |       | 835.11                      |                      |                 |                  |  | -         |
| Ford Explorer                   |       | 321.20                      |                      |                 |                  |  | •         |
| Pickup, 4x4, 3/4 Ton            |       | 449.67                      |                      |                 |                  |  |           |
| Air Fare - Round Trip           |       | 1,220.54                    |                      | 1.00            | 3.00             |  | 3,661.62  |
| Mileage                         |       | 0.40                        |                      | 850.00          | 1.00             |  | 340.00    |
| Fuel                            |       | 1.74                        |                      | 45.00           | 1.00             |  | 78.30     |
| Lodging                         |       | 68.09                       |                      | 7.00            | 2.00             |  | 953.26    |
| Meals and Incidentals           |       | 38.55                       |                      | 7,00            | 2.00             |  | 539.70    |
| Project Consumables             |       | 192.72                      |                      | 2.00            | 1.00             |  | 385.44    |
| Printing and Binding            |       | 205.56                      |                      | 2.00            | 1.00             |  | 411.12    |
| Shipping                        |       | 154.17                      |                      | 1.00            | 3.00             |  | 462.51    |
| Site Trailer                    |       | 963.59                      |                      | -               | 1.00             |  | •         |
| Electrical Hook Up              |       | 1,927.17                    |                      | •               | 1.00             |  | *<br>*    |
| Magazine Fencing                |       | 899.35                      |                      | 1.00            | 1.00             |  | 899.35    |
| Magazine Mobilization           |       | 770.87                      |                      | 1.00            | 1.00             |  | 770.87    |
| Donor Explosives                |       | 1,541.74                    |                      |                 |                  |  | •         |
| Site Remediation - Pine Farm    |       | 300.00                      |                      |                 |                  |  |           |
|                                 |       |                             |                      |                 |                  |  | 0.497.95  |
| Subtotal - Other Direct Costs   |       |                             |                      |                 |                  | <u> </u>   | 9,427.25  |
|                                 |       |                             |                      |                 |                  |  | 22,103.97 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A

Subtotal - Other Direct Costs

**Total Estimated Costs** 

| Task 4 |   |     |    |     |
|--------|---|-----|----|-----|
|        | ı | and | Su | MAY |

| Clearance of Compost Area - B          |         |                    |                      |                 |                  |                    |          |
|--|---------|--------------------|----------------------|-----------------|------------------|--------------------|----------|
|  |         | Loaded<br>Hourly   | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |
| Labor Category                         |         | Rate               | Treek                | TIDEKS_         | reopie           | TRANS              | Allouin  |
| Program Management I                   |         | 82.06              |                      |                 |                  | -                  | •        |
| Project Manager III                    |         | 76.92              |                      |                 |                  | -                  | •        |
| Project Manager II                     |         | 66.67              |                      |                 |                  | -                  | •        |
| Certified Industrial Hygienist         |         | 74.81              |                      |                 |                  | •                  | •        |
| Engineer II                            |         | 76.92              |                      |                 | 4.00             | ~ ~                | 4 404 00 |
| Survey Manager                         |         | 56.42              | 42.00                | 0.50            | 1.00             | 21.00              | 1,184.62 |
| Surveyor V                             |         | 46.16              | 42.00                | 0.50            | 1.00             | 21.00              | 969.36   |
|  |         | 47.04              |                      |                 |                  |                    |          |
| Quality Control Specialist             | Regular | 47.04              |                      |                 |                  | -                  | -        |
| Site Safety Officer                    | Regular | 47.04              |                      |                 |                  | •                  | •        |
| UXO Supervisor/Tech VI                 | Regular | 53.29              |                      |                 |                  | -                  | •        |
| UXO Supervisor/Tech V                  | Regular | 47.04              |                      |                 |                  | -                  | •        |
| UXO Technician IV                      | Regular | 40.49              |                      |                 |                  |                    |          |
| UXO Technician III                     | Regular | 34.10              | 40.00                | 0.50            | 1.00             | 20.00              | 682.00   |
| Laborer II                             | Regular | 28.65              |                      |                 |                  | -                  | •        |
|  |         |                    |                      |                 |                  | 62.00              | 2,836,18 |
| Subtotal - Labo                        | X.      |                    |                      |                 |                  | 62.00              | 2,630.10 |
|  |         |                    |                      |                 |                  |                    |          |
|  |         | Loaded             |                      | Number          | Number           |                    | •        |
| Other Direct Costs                     |         | Rate               |                      | Weeks           | Units            |                    | Amount   |
| FM Radio, Handheld w/ charger          |         | 25.69              |                      | 0.50            | 2.00             |                    | 25.69    |
| FM Radio Repeater/Base Station         |         | 44.97              |                      |                 |                  |                    | -        |
| Cellular Telephone and Service         |         | 64.24              |                      |                 |                  |                    | -        |
| Video Camera                           | 100     | 32.12              |                      |                 |                  |                    | -        |
| Computer                               |         | 98.36              |                      | 0.50            | 1.00             |                    | 48.18    |
| Brushcutter, power                     |         | 96.36              |                      |                 |                  |                    | •        |
| Chainsaw                               |         | 64.24              |                      |                 |                  |                    | •        |
| EOD Demoistion Kit                     |         | 51.39              |                      |                 |                  |                    | •        |
| Foester Ferrex Ordnance Locator        |         | 385.43             |                      |                 |                  |                    | -        |
| Schonstedt Magnetic Locator            |         | 51.39              |                      | 0.50            | 1.00             |                    | 25.70    |
| Explosive Storage magazine             |         | 44.97              |                      |                 |                  |                    | -        |
| Carrier Phase GPS                      |         | 899.35             |                      | 0.50            | 2.00             |                    | 899.35   |
| Surveyor's Kit                         |         | 64.24              |                      | 0.50            | 1.00             |                    | 32.12    |
| Total Station Survey Equipment         |         | 835.11             |                      | 1.00            | 1.00             |                    | 835.11   |
| Ford Explorer                          |         | 321.20             |                      | 1.00            | 1.00             |                    | 321,20   |
| Pickup, 4x4, 3/4 Ton                   |         | 449.67             |                      |                 |                  |                    |          |
| Air Fare - Round Trip                  |         | 1,220.54           |                      | 1.00            | 2.00             |                    | 2,441.08 |
| Mileage                                |         | 0.40               |                      | 50.00           | 2.00             |                    | 40.00    |
| Fuel                                   |         | 1.74               |                      | 32.00           | 1.00             |                    | 55,68    |
| Lodging                                |         | 68.09              |                      | 4.00            | 2.00             |                    | 544.72   |
| Meals and Incidentals                  |         | 38,55              |                      | 4.00            | 2.00             |                    | 306.40   |
| Project Consumables                    |         | 192 72             |                      | 0.50            | 1.00             |                    | 96.36    |
| Printing and Binding                   |         | 205.56             |                      | 1.00            | 1.00             |                    | 205.56   |
| Chiching Shipping                      |         | 154.17             |                      | 1.00            | 1.00             |                    | 154.17   |
| Site Trailer                           |         | 963.59             |                      | I '.~           | 1.00             |                    |          |
| Electrical Hook Up                     |         | 1,927.17           |                      |                 | j                |                    |          |
| Magazine Fencing                       |         | 899.35             |                      |                 |                  |                    | -        |
| mouseling Folkii Ni                    |         |                    |                      |                 |                  |                    | _        |
|  |         |                    |                      | j               |                  |                    |          |
| Magazine Mobilization Donor Explosives |         | 770.87<br>1,541.74 |                      |                 |                  |                    | •        |

Page 5

6,033.32

8,869.50

NFA with Limited Surface & Subsurface
Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area. - A

Task 5

| Clearance of Compost Area - B                                       |         | Brush Clearance          |                      |                 |                  |                    |              |  |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------------|--|
| Labor Category  |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount       |  |
|   |         | 82.06                    | 11001                |                 |                  |                    | _            |  |
| Program Management I  |         | 76.92                    |                      |                 |                  | _                  | _            |  |
| Project Manager III   |         | 76.52<br>66.67           |                      |                 |                  | _                  | _            |  |
| Project Manager II  |         |                          |                      |                 |                  | •                  | _            |  |
| Certified Industrial Hygienist                                      |         | 74.81                    |                      |                 |                  | -                  | •            |  |
| Engineer II   |         | 76.92                    |                      |                 |                  | -                  | -            |  |
| Survey Manager  |         | 56.42                    |                      |                 |                  | •                  | -            |  |
| Surveyor V  |         | 46.16                    |                      |                 |                  | •                  |              |  |
|   |         | 47.04                    |                      |                 |                  |                    | <del>.</del> |  |
| Quality Control Specialist  | Regular | 47.04                    |                      |                 |                  | •                  | -            |  |
| Site Safety Officer   | Regular | 47.04                    |                      |                 |                  | -                  | •            |  |
| UXO Supervisor/Tech VI  | Regular | 53.29                    |                      |                 |                  | -                  | •            |  |
| UXO Supervisor/Tech V   | Regular | 47.04                    |                      |                 |                  | -                  |              |  |
| UXO Technician IV   | Regular | 40.49                    | 40.00                | 1,00            | 2.00             | 80.00              | 3,239.20     |  |
| UXO Technician III  | Regular | 34.10                    |                      |                 |                  |                    |              |  |
| Laborer II  | Regular | 28.65                    | 40.00                | 1.00            | 6.00             | 240.00             | 6,876.00     |  |
| Subtotal - L  | ohar    |                          |                      |                 | ·                | 320.00             | 10,115.20    |  |
| ŞUDIOIAI - C  | , ELLX  |                          |                      |                 |                  | 020.00             | C422,000 C.  |  |
|   |         |                          |                      |                 | N                |                    | Alter i      |  |
|   |         | Loaded                   |                      | Number          | Number           |                    | 4            |  |
| Other Direct Costs  |         | Rate                     |                      | Weeks           | Units            |                    | Amount       |  |
| FM Radio, Handheld w/ charger                                       |         | 25.69                    |                      | 1.00            | 2.00             |                    | 51.38        |  |
| FM Radio Repeater/Base Station                                      |         | 44.97                    |                      |                 |                  |                    | •            |  |
| Celtular Telephone and Service                                      |         | 64.24                    |                      |                 |                  |                    | •            |  |
| Video Camera  |         | 32.12                    |                      |                 |                  |                    | -            |  |
| Computer  |         | 96.36                    |                      |                 |                  |                    | -            |  |
| Brushcutter, power  |         | 96.36                    |                      | 1.00            | 4.00             |                    | 385.44       |  |
| Chainsaw  |         | 64.24                    |                      | 1.00            | 200              |                    | 128.48       |  |
| EOD Demolition Kit  |         | 51.39                    |                      |                 | 1                |                    | •            |  |
| Foester Ferrex Ordnance Locator                                     |         | 385.43                   |                      |                 |                  |                    | -            |  |
| Schonstedt Magnetic Locator   |         | 51.39                    |                      | 1.00            | 2.00             |                    | 102.78       |  |
| Explosive Storage magazine  | 1       | 44,97                    |                      |                 |                  |                    | -            |  |
| Carrier Phase GPS   |         | 899.35                   |                      |                 |                  |                    | •            |  |
| Surveyor's Kit  | •       | 64,24                    |                      |                 |                  |                    | _            |  |
| Total Station Survey Equipment                                      |         | 835.11                   |                      |                 |                  |                    | -            |  |
| Ford Explorer   |         | 321.20                   |                      |                 |                  |                    | _            |  |
| Pickup, 4x4, 3/4 Ton  |         | 449.67                   |                      | 1.00            | 200              |                    | 899.34       |  |
| Air Fare - Round Trip   |         | 1,220,54                 |                      | 1:              |                  |                    |              |  |
| Mileage   |         | 0.40                     |                      | 50,00           | 2.00             |                    | 40.00        |  |
| Fuel  |         | 1.74                     |                      | 32.00           | 200              |                    | 111.36       |  |
| Lodging   |         | 68.09                    |                      | 4.00            | 8.00             |                    | 2,178.88     |  |
| Meals and incidentels   |         | 38.55                    |                      | 4.00            | 8.00             |                    | 1,233.60     |  |
| Sector Section  |         | 192.72                   |                      | 1.00            | 1.00             |                    | 192.72       |  |
| Printing and Binding  |         | 205.56                   |                      | 1.90            | 1.00             |                    | 194.72       |  |
|   |         | 200.56<br>154.17         |                      |                 |                  |                    | -            |  |
| Shipping<br>Site Trailer  |         | 963.59                   |                      |                 | ,                |                    | -<br>-       |  |
| Site Trailer  |         | 1,927,17                 |                      |                 |                  |                    | -            |  |
| Electrical Hook Up  |         | 1,927.17<br>899.35       |                      |                 |                  |                    | -            |  |
| Magazine Fencing  |         |                          |                      |                 |                  |                    | -            |  |
| AAL COLLEGE AALKSEELS   |         |                          |                      |                 |                  |                    | -            |  |
| Megazine Mobilization   |         | 770.87                   |                      |                 |                  |                    |              |  |
| Megazine Mobilization Donor Explosives Site Remediation - Pine Farm |         | 1,541.74<br>300.00       |                      |                 |                  |                    | -            |  |

15,439.18

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forest Area - A Clearance of Compost Area - B

Task 6 Surface OE Removal

| Clearance or Compost Are                       | M - D   | Loaded   | Hours |        | SUITAGE OF MAINWAIL |           |          |  |
|--|---------|----------|-------|--------|---------------------|-----------|----------|--|
|  |         | Hourly   | Det   | Number | Number              | Estimated |          |  |
| Labor Category                                 |         | Rate     | Week  | Weeks  | People              | Hours     | Amount   |  |
| Program Management I                           |         | 82.06    |       |        |                     | -         | •        |  |
| Project Manager III                            |         | 76.92    |       |        |                     | •         | -        |  |
| Project Manager II                             |         | 66.67    |       |        |                     | •         | -        |  |
| Certified Industrial Hygienist                 |         | 74.81    |       |        |                     | -         | -        |  |
| Engineer II                                    |         | 76.92    |       |        |                     | -         |          |  |
| Survey Manager                                 |         | 56.42    |       |        |                     | •         | -        |  |
| Surveyor V                                     |         | 46.16    |       |        |                     |           | -        |  |
| :  |         |          |       |        |                     |           |          |  |
| Quality Control Specialist                     | Regular | 47.04    |       |        |                     | -         | -        |  |
| Site Safety Officer                            | Regular | 47.04    |       |        |                     | -         | -        |  |
| UXO Supervisor/Tech VI                         | Regular | 53.29    |       |        |                     | •         | -        |  |
| UXO Supervisor/Tech V                          | Regular | 47.04    | 40.00 | 1.50   | 1.00                | 60.00     | 2,822.4  |  |
| UXO Technician IV                              | Regular | 40.49    | 40.00 | 1.50   | 4.00                | 240.00    | 9,717.6  |  |
| UXO Technician III                             | Regular | 34.10    |       |        |                     | -         | •        |  |
| Laborer II                                     | Regular | 28.65    |       |        |                     | •         | -        |  |
| **   |         |          |       |        |                     |           | -        |  |
| Subtotal - L                                   | abor    |          |       |        | 4.1                 | 300.00    | 12,540.0 |  |
|  |         |          |       |        |                     |           |          |  |
|  |         |          |       |        |                     |           |          |  |
|  |         | Loaded   |       | Number | Number              |           |          |  |
| Other Direct Costs                             |         | Rate     |       | Weeks  | Units               |           | Amount   |  |
| M Radio, Handheld w/ charger                   |         | 25.69    |       | 1,50   | 2.00                |           | 77.0     |  |
| M Radio Repeater/Base Station                  |         | 44.97    |       |        |                     |           | _        |  |
| Cellular Telephone and Service                 |         | 64.24    |       |        |                     |           | -        |  |
| /ideo Camera                                   |         | 32.12    |       |        |                     |           | _        |  |
| Computer                                       |         | 96.36    |       |        |                     |           | _        |  |
| Brushcutter, power                             |         | 96.36    |       |        |                     |           | _        |  |
| Chainsaw                                       |         | 64.24    |       |        |                     |           |          |  |
| EOD Demolition Kit                             |         | 51.39    |       | 1.50   | 1.00                |           | 77.0     |  |
| Foester Ferrex Ordnance Locator                | 100     | 385.43   |       |        | ,,,,,               |           | •        |  |
| Schonstedt Magnetic Locator                    |         | 51.39    |       | 1.50   | 6.00                |           | 616.6    |  |
| Explosive Storage magazine                     |         | 44.97    |       | 1.00   | 0.00                |           | 0.0.0    |  |
| Carrier Phase GPS                              |         | 899.35   |       |        |                     |           | _        |  |
| Surveyor's Kil                                 |         | 64.24    |       |        |                     |           | _        |  |
| Total Station Survey Equipment                 |         | 835.11   |       |        |                     |           | _        |  |
| Ford Explorer                                  |         | 321.20   |       |        |                     |           | _        |  |
| Pickup, 4x4, 3/4 Ton                           |         | 449.67   |       |        |                     |           | _        |  |
| rickup, 4x4, 344 foli<br>Air Fare - Round Trip |         | 1,220.54 |       |        | į                   |           | _        |  |
| •  |         | 0.40     |       |        |                     |           |          |  |
| Mileage<br>Fund                                |         | 1.74     |       |        |                     |           | -        |  |
| Fuel   |         | 68.09    |       | 7.00   | 5.00                |           | 2,383.1  |  |
| Lodging  |         |          |       |        | 5.00                |           | 1,349.2  |  |
| Meals and Incidentals                          |         | 38.55    |       | 7.00   | 5.00                |           | 1,349.2  |  |
| Project Consumables                            |         | 192.72   |       |        |                     |           | -        |  |
| Printing and Binding                           |         | 205.56   |       |        |                     |           | -        |  |
| Shipping                                       |         | 154.17   |       |        |                     |           | •        |  |
| Site Trailer                                   |         | 963.59   |       |        |                     |           | •        |  |
| Electrical Hook Up                             |         | 1,927.17 |       |        |                     |           | -        |  |
| Magazine Fencing                               |         | 899,35   |       |        |                     |           | -        |  |
| Magazine Mobilization                          |         | 770.87   |       |        |                     |           |          |  |
| Donor Explosives                               |         | 1,541.74 |       | 0,50   | 0.20                |           | 154.1    |  |
| Site Remediation - Pine Farm                   |         | 300.00   |       |        |                     |           | <u>-</u> |  |
| Subtotal - Other Direct C                      | Costs   |          |       |        |                     |           | 4,657.4  |  |

17,197.41

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural BrustvForest Area - A
Clearance of Compost Area - 8

Task 7 Screo Turn-In

| Clearance of Compost Area - B   |         | Scrap Turn-In            |                      |                 |                  |                    |          |  |  |
|---------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|----------|--|--|
| Labor Category                  |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |  |  |
|                                 |         | 82.06                    | 11005                | *******         |                  |                    |          |  |  |
| Program Management I            |         | 76.92                    |                      |                 |                  | -                  |          |  |  |
| Project Manager III             |         | 96.67                    |                      |                 |                  | _                  |          |  |  |
| Project Manager II              |         | 74.81                    |                      |                 |                  | _                  | -        |  |  |
| Certified Industrial Hygienist  |         | 76.92                    |                      |                 |                  | _                  | -        |  |  |
| Engineer II                     |         | 56.42                    |                      |                 |                  | _                  | _        |  |  |
| Survey Manager                  |         | 46,16                    |                      |                 |                  | -                  | _        |  |  |
| Surveyor V                      |         | 40,10                    |                      |                 |                  |                    |          |  |  |
| Quality Control Specialist      | Regular | 47.04                    |                      |                 |                  | -                  | -        |  |  |
| Site Safety Officer             | Regular | 47.04                    |                      |                 |                  | •                  | -        |  |  |
| UXO Supervisor/Tech VI          | Regular | 53,29                    | 40.00                | 0.35            | 1.00             | 14.00              | 746.06   |  |  |
| UXO Supervisor/Tech V           | Regular | 47.04                    |                      |                 |                  | -                  | -        |  |  |
| UXO Technician IV               | Regular | 40.49                    | 40.00                | 0.35            | 1.00             | 14.00              | 566.86   |  |  |
| UXO Technician III              | Regular | 34.10                    |                      |                 |                  | •                  | -        |  |  |
| Laborer II                      | Regular | 26.65                    |                      |                 |                  | -                  | -        |  |  |
|                                 |         |                          |                      |                 |                  | *                  | -        |  |  |
| Subtotal - L                    | abor    |                          |                      |                 |                  | 28.00              | 1,312.92 |  |  |
|                                 |         |                          |                      |                 |                  |                    |          |  |  |
|                                 |         | Loaded                   |                      | Number          | Number           |                    |          |  |  |
| Other Direct Costs              |         | Rate                     |                      | Weeks           | Units            | _                  | Amount   |  |  |
| FM Radio, Handheld w/ charger   |         | 25.69                    |                      |                 |                  |                    | -        |  |  |
| FM Radio Repeater/Base Station  |         | 44.97                    |                      |                 |                  |                    | -        |  |  |
| Celtular Telephone and Service  |         | 64.24                    |                      |                 |                  |                    | -        |  |  |
| Video Carnera                   |         | 32.12                    |                      |                 |                  |                    | •        |  |  |
| Computer                        |         | 96.36                    |                      |                 |                  |                    | •        |  |  |
| Brushcutter, power              |         | 96.36                    |                      |                 |                  |                    | -        |  |  |
| Chainsaw                        |         | 64.24                    |                      |                 | 1                |                    | -        |  |  |
| EOD Demolition Kit              |         | 51.39                    |                      |                 |                  |                    | -        |  |  |
| Foester Ferrex Ordnance Locator |         | 385.43                   |                      |                 | - 1              |                    | •        |  |  |
| Schonstedi Magnetic Locator     |         | 51.39                    |                      |                 |                  |                    | •        |  |  |
| Explosive Storage magazine      |         | 44,97                    |                      |                 |                  |                    | -        |  |  |
| Carrier Phese GPS               |         | 699,35                   |                      |                 |                  |                    | -        |  |  |
| Surveyor's Kil                  |         | 64.24                    |                      |                 |                  |                    | -        |  |  |
| Total Station Survey Equipment  |         | 835.11                   |                      |                 |                  |                    | -        |  |  |
| Ford Explorer                   |         | 321.20                   |                      |                 |                  |                    | -        |  |  |
| Pickup, 4x4, 3/4 Ton            |         | 449.67                   |                      | 1.00            | 0.25             |                    | 112.42   |  |  |
| Air Fare - Round Trip           |         | 1,220.54                 |                      |                 |                  |                    | -        |  |  |
| Mileage                         |         | 0.40                     |                      |                 |                  |                    | -        |  |  |
| Fuel                            |         | 1.74                     |                      | 25.00           | 1.00             |                    | 43.50    |  |  |
| Lodging                         |         | 68.09                    |                      | 1.50            | 200              |                    | 204.27   |  |  |
| Meals and incidentals           |         | 38.55                    |                      | 1.50            | 2.00             |                    | 115.65   |  |  |
| Project Consumables             |         | 192.72                   |                      | 1.00            | 1.00             |                    | 192.72   |  |  |
| Printing and Binding            |         | 205.56                   |                      |                 |                  |                    | •        |  |  |
| Shipping                        |         | 154.17                   |                      |                 |                  |                    | -        |  |  |
| Site Trailer                    |         | 983.59                   |                      |                 |                  |                    | -        |  |  |
| Electrical Hook Up              |         | 1,927.17                 |                      |                 |                  |                    | -        |  |  |
| Magazine Fencing                |         | 899.35                   |                      |                 | 1                |                    | •        |  |  |
| Magazine Mobilization           |         | 770.67                   |                      |                 |                  |                    | -        |  |  |
| Donor Explosives                |         | 1,541.74                 |                      |                 |                  |                    | _        |  |  |
| Site Remediation - Pine Farm    |         | 300.00                   |                      |                 |                  |                    |          |  |  |
| Subtotal - Other Direct C       | osts    |                          |                      |                 |                  |                    | 668.56   |  |  |

1,981.48

Corps of Engineers Camp Croft, Spertenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forest Area - A Clearance of Compost Area - B

Task 8 Quality Control

| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week_ | Number<br>Weeks | Number<br>People | Estimated<br>Hours_ | Amount   |
|--------------------------------|---------|--------------------------|-----------------------|-----------------|------------------|---------------------|----------|
| Program Management I           |         | 82.06                    |                       |                 |                  | -                   | •        |
| Project Manager III            |         | 76.92                    |                       |                 |                  | •                   | -        |
| Project Manager II             |         | 66.67                    |                       |                 |                  | -                   | •        |
| Certified Industrial Hygienist |         | 74.81                    |                       |                 |                  | -                   | •        |
| Engineer II                    |         | 76.92                    |                       |                 |                  | -                   | -        |
| Survey Manager                 |         | 56.42                    |                       |                 |                  | •                   | -        |
| Surveyor V                     |         | 48.16                    |                       |                 |                  |                     | -        |
| and the second second          |         |                          |                       |                 |                  |                     |          |
| Quality Control Specialist     | Regular | 47.04                    | 40.00                 | 1.25            | 1.00             | 50.00               | 2,352.00 |
| Site Safety Officer            | Regular | 47.04                    |                       |                 |                  | -                   | -        |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                       |                 |                  | -                   | -        |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                       |                 |                  | -                   | •        |
| UXO Technician IV              | Regular | 40.49                    |                       |                 |                  | -                   | -        |
| UXO Technician III             | Regular | 34.10                    | 40.00                 | 1.25            | 1.00             | 50.00               | 1,705.00 |
| Laborer II                     | Regular | 28.65                    |                       |                 |                  | •                   | -        |
|                                |         |                          |                       |                 | 1                |                     | -        |
| Subtotal -                     | Labor   |                          |                       |                 |                  | 100.00              | 4,057.00 |

|                                 |          |        |        | W.8WA. (+) |
|---------------------------------|----------|--------|--------|------------|
|                                 | Loaded   | Number | Number |            |
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    | 1.25   | 1.00   | 32.11      |
| FM Radio Repeater/Base Station  | 44.97    |        |        | -          |
| Celtular Telephone and Service  | 64.24    |        |        | -          |
| Video Camera                    | 32.12    |        |        | •          |
| Computer                        | 96.36    | i      |        | •          |
| Brushcutter, power              | 96.36    | j      |        | •          |
| Chainsaw                        | 64.24    |        |        | •          |
| EOD Demolition Kit              | 51.39    |        |        | -          |
| Foester Ferrex Ordnanca Locator | 385.43   |        |        | -          |
| Schonstedt Magnetic Locator     | 51.39    | 1.25   | 2.00   | 128.48     |
| Explosive Storage magazine      | 44.97    |        |        | -          |
| Carrier Phase GPS               | 899.35   |        |        | -          |
| Surveyor's Kit                  | 64.24    |        |        | -          |
| Total Station Survey Equipment  | 835.11   |        |        | •          |
| Ford Explorer                   | 321.20   | 1.25   | 1.00   | 401.50     |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | •          |
| Air Fare - Round Trip           | 1,220.54 | 1.00   | 2.00   | 2,441.08   |
| Mileage                         | 0.40     | 140.00 | 2.00   | 112.00     |
| Fuel                            | 1.74     | 50.00  | 2.00   | 174.00     |
| Lodging                         | 68.09    | 6.00   | 2.00   | 817.08     |
| Meals and Incidentals           | 38.55    | 6.00   | 200    | 462.60     |
| Project Consumables             | 192.72   | 2.00   | 1.00   | 385.44     |
| Printing and Binding            | 205,56   |        |        | -          |
| Shipping                        | 154.17   |        |        | -          |
| Site Trailer                    | 963.59   |        |        | -          |
| Electrical Hook Up              | 1,927.17 | :      |        | •          |
| Magazine Fencing                | 899.35   |        |        |            |
| Magazine Mobilization           | 770.87   |        |        | -          |
| Donor Explosives                | 1,541.74 |        |        |            |
| Site Remediation - Pine Farm    | 300.00   |        |        |            |
| Subtotal - Other Direct Costs   |          |        |        | 4,954.29   |
|                                 |          |        |        |            |
| Total Estimated Costs           |          |        |        | 9,011.29   |

Comps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A

Task 9 Final Report

| Clearance of Compost Area                             | 9 - B   |                          |                      |                 | Final R          | eport              |           |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Catagory  |         | Loaded<br>Hourty<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |
| Labor Category  |         | 82.06                    | 42.00                | 0.25            | 1.00             | 10.50              | 861,63    |
| Program Management I                                  |         | 76.92                    | 72.00                | 0.40            | 1.00             | -                  | -         |
| Project Manager III                                   |         | 66.67                    | 42.00                | 2.00            | 1.00             | 84.00              | 5,600.28  |
| Project Manager II<br>Certified Inclustrial Hygienist |         | 74.81                    | 1200                 |                 |                  | -                  |           |
|   |         | 76.92                    | 42.00                | 0.75            | 1.00             | 31.50              | 2,422,98  |
| Engineer II<br>Survey Manager                         |         | 56.42                    | 42.00                | 1.00            | 1.00             | 42.00              | 2,369.64  |
| Surveyor V  |         | 46.16                    |                      | ,               |                  | _                  | •         |
| Sulveyor V  |         |                          |                      |                 |                  |                    | 8 18      |
| Quality Control Specialist                            | Regular | 47.04                    |                      |                 |                  | -                  | -         |
| Site Safety Officer                                   | Regular | 47.04                    |                      |                 |                  | •                  | •         |
| UXO Supervisor/Tech VI                                | Regular | 53.29                    |                      |                 |                  | •                  | -         |
| UXO Supervisor/Tech V                                 | Regular | 47.04                    |                      |                 |                  | •                  | •         |
| UXO Technician IV                                     | Regular | 40.49                    |                      |                 |                  | -                  | •         |
| UXO Technician III                                    | Regular | 34.10                    |                      |                 |                  | -                  | -         |
| Laborer II  | Regular | 28.65                    |                      |                 |                  | -                  | -         |
|   |         |                          |                      |                 | • • •            |                    | -         |
| Subtotal - L  | abor    |                          |                      |                 |                  | 168.00             | 11,254.53 |
|   |         |                          |                      |                 |                  |                    |           |
|   |         | Loaded                   |                      | Number          | Mumbar           |                    | 2000      |
| Other Direct Conta                                    |         | Loaced<br>Rate           |                      | Number<br>Weeks | Number<br>Units  |                    | Amount    |
| Other Direct Costs                                    |         |                          |                      | 110013          | CIRCS            |                    | AIIIOUIII |
| FM Radio, Handheld w/ charger                         |         | 25.69                    |                      |                 |                  |                    | _         |
| FM Radio Repester/Base Station                        |         | 44,97<br>64,24           |                      |                 |                  |                    | -         |
| Cellular Telephone and Service                        |         |                          |                      |                 |                  |                    | -         |
| Video Camera  |         | 32.12<br>96.36           |                      |                 |                  |                    |           |
| Computer  |         | 96.36                    |                      |                 |                  |                    | -         |
| Brushcutter, power                                    |         | 64.24                    |                      |                 |                  |                    | _         |
| Chainsaw  |         | 51.39                    |                      |                 |                  |                    | _         |
| EOD Demolition Kit                                    |         | 385.43                   |                      |                 |                  |                    | _         |
| Foester Ferrex Ordnance Locator                       |         | 51.39                    |                      |                 |                  |                    | •         |
| Schonstedt Magnetic Locator                           |         | 44.97                    |                      |                 |                  |                    | _         |
| Explosive Storage magazine                            |         | 899.35                   |                      |                 |                  |                    | _         |
| Carrier Phase GPS                                     |         | 64.24                    |                      |                 |                  |                    | _         |
| Surveyor's Kill                                       |         | 835.11                   |                      |                 |                  |                    | _         |
| Total Station Survey Equipment                        |         | 321.20                   |                      |                 |                  |                    | _         |
| Ford Explorer<br>Pickup, 4x4, 3/4 Ton                 |         | 449.67                   |                      |                 |                  |                    | _         |
| Pickup, 4x4, 3/4 10h<br>Air Fare - Round Trìo         |         | 1,220.54                 |                      |                 |                  |                    | _         |
| •   |         | 0.40                     |                      |                 |                  | 3                  | _         |
| Mileage   |         | 1.74                     |                      |                 |                  |                    | _         |
| Fuel<br>Ledeine                                       |         | 68.09                    |                      | •               |                  |                    | _         |
| Lodging<br>Meals and Incidentals                      |         | 38.55                    |                      |                 |                  |                    |           |
| Project Consumables                                   |         | 192.72                   |                      |                 |                  |                    |           |
| Project Consumatives Printing and Binding             |         | 205.56                   |                      | 1.00            | 2.00             |                    | 411.12    |
| Pringing and binding<br>Shipping                      |         | 154.17                   |                      |                 | 2.50             |                    |           |
| onipping<br>Site Trailer                              |         | 963.59                   |                      |                 |                  |                    |           |
| Electrical Hook Up                                    | - A     | 1,927.17                 |                      |                 |                  |                    | -         |
| Magazine Fencing                                      |         | 899.35                   |                      |                 |                  |                    | -         |
| Magazine Perking<br>Magazine Mobilization             |         | 770.87                   |                      |                 |                  |                    | -         |
| Donor Explosives                                      |         | 1,541.74                 |                      |                 | 1                |                    | -         |
| Site Remediation - Pine Farm                          |         | 300.00                   |                      |                 |                  |                    |           |
| Subtotal - Other Direct (                             | Costs   |                          |                      |                 |                  |                    | 411.12    |
| wantenn warm dann                                     |         |                          |                      |                 |                  |                    |           |
|   |         |                          |                      |                 |                  |                    |           |

**Total Estimated Costs** 

11,685.65

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Lodging

Shipping Site Trailer

Meals and Incidentals

Project Consumables
Printing and Binding

Electrical Hook Up Magazine Fencing

**Donor Explosives** 

Magazine Mobilization

Site Remediation - Pine Farm

Subtotal - Other Direct Costs

Total Estimated Costs

| Engineering Design Cost Est<br>Natural Brust/Forest Are |         | Task 10<br>Site Restoration |             |                 |                  |           |              |  |
|---|---------|-----------------------------|-------------|-----------------|------------------|-----------|--------------|--|
| Clearance of Compost Are                                | sa - B  |                             |             |                 | Site Rest        | oration   |              |  |
|   |         | Loaded                      | Hours       |                 | 444              | Estimated |              |  |
|   |         | Hourly                      | per<br>Week | Number<br>Weeks | Number<br>People | Hours     | Amount       |  |
| Labor Category  |         | Rate                        | HOOK        | M-DGV2          | гецие            |           | POINCEIN     |  |
| Program Management I                                    |         | 82.06                       |             |                 |                  | •         | •            |  |
| Project Manager III                                     |         | 76.92                       |             |                 |                  | •         | -            |  |
| Project Manager II                                      |         | 66.67                       |             |                 |                  | -         | -            |  |
| Certified Industrial Hygienist                          |         | 74.81                       |             |                 |                  | •         | •            |  |
| Engineer 1  |         | 76.92                       |             |                 |                  | •         | •            |  |
| Survey Manager  |         | 56.42                       |             |                 |                  | •         | •            |  |
| Surveyor V  |         | 46,16                       |             |                 |                  | •         | •            |  |
|   |         |                             |             |                 |                  |           |              |  |
| Quality Control Specialist                              | Regular | 47.04                       |             |                 |                  | -         | •            |  |
| Site Safety Officer                                     | Regular | 47.04                       |             |                 |                  | -         | -            |  |
| UXO Supervisor/Tech VI                                  | Regular | 53.29                       |             |                 |                  | -         | -            |  |
| UXO Supervisor/Tech V                                   | Regutar | 47.04                       |             |                 |                  | -         | -            |  |
| UXO Technician IV                                       | Regutar | 40.49                       |             |                 |                  | -         | -            |  |
| UXO Technician III                                      | Regular | 34.10                       |             |                 |                  | -         | -            |  |
| Laborer II  | Regular | 28.65                       |             |                 |                  | -         | -            |  |
|   |         |                             |             |                 | 1. 31.           |           |              |  |
| Subtotal -  | Labor   |                             |             |                 |                  |           | <del>-</del> |  |
| 10 mg   |         |                             |             |                 |                  |           | W. W. F.     |  |
|   |         |                             |             |                 |                  |           | A            |  |
|   |         | Loaded                      |             | Number          | Number           |           |              |  |
| Other Direct Costs                                      |         | Rate                        |             | Weeks           | Units            |           | Amount       |  |
| FM Radio, Handheld w/ charger                           |         | 25.69                       |             |                 |                  |           | -            |  |
| FM Radio Repeater/Base Station                          |         | 44.97                       |             |                 |                  |           | •            |  |
| Cellular Telephone and Service                          |         | 64.24                       |             |                 |                  |           | -            |  |
| Video Camera  |         | 32.12                       |             |                 |                  |           | -            |  |
| Computer  |         | 96.36                       |             |                 |                  |           | •            |  |
| Brushoutter, power                                      |         | 96.36                       |             |                 |                  |           | •            |  |
| Chainsaw  |         | 84.24                       |             |                 |                  |           | •            |  |
| EOD Demolition Kit                                      |         | 51.39                       |             |                 |                  |           | •            |  |
| Foester Ferrex Ordnance Locator                         |         | 385.43                      |             |                 |                  |           | •            |  |
| Schonstedt Magnetic Locator                             |         | 51:39                       |             |                 |                  |           |              |  |
| Explosive Storage magazine                              |         | 44.97                       |             |                 |                  |           |              |  |
| Carrier Phase GPS                                       |         | 899.35                      |             |                 |                  |           |              |  |
| Surveyor's Kit  |         | 84.24                       |             |                 |                  |           |              |  |
| Total Station Survey Equipment                          |         | 835,11                      |             |                 |                  |           |              |  |
| Ford Explorer   |         | 321.20                      |             |                 |                  |           | -            |  |
| Pickup, 4x4, 3/4 Ton                                    |         | 449.67                      |             |                 |                  |           |              |  |
| Air Fare - Round Trip                                   |         | 1,220,54                    |             |                 |                  |           |              |  |
| Mileage   |         | 0.40                        |             |                 |                  |           |              |  |
| Fuel  |         | 1.74                        |             |                 |                  |           |              |  |
| ruei  |         | 1./7                        |             |                 |                  |           |              |  |

68.09

38.55 192.72

205.56

154.17 963.59 1,927.17

899.35 770.87

1,541.74

300.00

300.00

300.00

300.00

1.00

1.00

**EVALUATED REMOVAL ALTERNATIVES** 

## Natural Brush/Forests - A [Compost Area B]

## Alternative 1 - No Further Action with Limited Action (Surface Clearance of OE)

Alternative 1 requires a complete OE surface clearance of a 5 acre area (area planned for future Compost Area B within the Natural Brush/Forest Area - A). Electronic detection instruments are necessary to detect OE hidden from view by high grasses, brush, and terrain. The work schedule is based on working four 10hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are less intensive than brush clearance for subsurface clearance; therefore, the production effort is established at 5 grids per day per team. It is assumed that approximately 50% of the total grids will require moderate brush clearance efforts. During the Engineering Design effort 0.23 acres were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for the effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the erratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition. Due to the limited scope and duration of this clearance effort, a site visit and site trailer/office will not be necessary and have been excluded from this cost estimate.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance Search Grid Size: 100' X 100'

5 acres/22 (100' X100') search grids

0.23 acres

4.77 acres (approximately 5 acres)

10.5grids/2.3 acres .22 acres per grid

Production Rates:

Brush Clearance

Land Survey

Surface Clearance

5 grids per day per four man team (one team @ 5 grids per day) 14 grids per day per two person team (one team @ 14 grids per day)

8.71 grids per day (2 acres) per 5 person team (1 team);

Duration:

Project Management

5 working days/1.25 weeks

Land Survey

2 working days/0.5 week (one team)

Brush Clearance

4 working days/1 week -- 5 grids per work day per four-person

team (one team @ 5 grids per workday)

Surface Clearance

4 working days/1 week (one five-person teams)

Disposal

Effort included in Surface Clearance

Quality Control

3 working days/0.75 week (2 person team)

Total Duration

5 Working Days/1.25 weeks

#### Surface Clearance of OE

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate
Natural Brush/Forest Area - A

Meals and incidentals

Project Consumables

Printing and Binding

Electrical Hook Up

Magazine Fencing

Donor Explosives

Magazine Mobilization

Site Remediation - Pine Farm

Mileage

Lodging

Shipping

Site Trailer

Fuel

| Natural Brush/Forest Area - /<br>Clearance of Compost Area - ! | Summary   |          |                           |        |        |           |          |  |  |
|--|-----------|----------|---------------------------|--------|--------|-----------|----------|--|--|
| Clearance of Compositives -                                    | •         | Loaded   | Hours                     |        |        |           |          |  |  |
|  |           | Hourly   | per                       | Number | Number | Estimated |          |  |  |
| Labor Category   |           | Rate     | Week                      | Weeks  | People | Hours_    | Amount   |  |  |
| Program Management I   | 12, 12, 1 | 82.06    |                           |        |        | 27.30     | 2,240.2  |  |  |
| Project Manager III  |           | 76.92    |                           |        |        | 52.50     | 4,038.3  |  |  |
| Project Manager II   |           | 66.67    |                           |        |        | 147.00    | 9,800.4  |  |  |
| Certified Industrial Hygienist                                 |           | 74.81    |                           |        |        | 12.00     | 897.7    |  |  |
| Engineer II  |           | 76.92    |                           |        |        | 48.30     | 3,715.2  |  |  |
| Survey Manager   | 0.41%     | 56,42    |                           |        |        | 84.00     | 4,739.2  |  |  |
| Surveyor V   |           | 46.16    |                           |        |        | 21.00     | 969.3    |  |  |
|  |           |          |                           |        |        |           |          |  |  |
| Quality Control Specialist                                     | Regular   | 47.04    |                           |        |        | 30.00     | 1,411.2  |  |  |
| Site Safety Officer  | Regular   | 47.04    |                           |        |        | 50.00     | 2,352.0  |  |  |
| UXO Supervisor/Tech VI   | Regular   | 53.29    |                           |        |        | 90.00     | 4,796.1  |  |  |
| UXO Supervisor/Tech V  | Regular   | 47.04    | 14.                       |        |        | 40.00     | 1,881.6  |  |  |
| UXO Technician IV  | Regular   | 40,49    | 2.0                       |        |        | 250.00    | 10,122.5 |  |  |
| UXO Technician III   | Regular   | 34,10    |                           |        |        | 50.00     | 1,705.0  |  |  |
| Laborer II   | Regular   | 28.65    | 40                        |        |        | 240.00    | 6,876.0  |  |  |
|  |           |          |                           |        |        |           | •        |  |  |
| Subtotal - Labo  | Y.        |          | i i Marana.<br>Ngjarja na |        |        | 1,142.10  | 55,545.0 |  |  |
|  | 5         |          |                           |        |        |           |          |  |  |
|  |           |          |                           |        |        |           |          |  |  |
|  |           | Loaded   |                           | Number | Number |           |          |  |  |
| Other Direct Costs   |           | Rate     |                           | Weeks  | Units  |           | Amount   |  |  |
| FM Radio, Handheld w/ charger                                  |           | 25.69    |                           |        |        |           | 147.7    |  |  |
| FM Radio Repeater/Base Station                                 | 283       | 44.97    |                           |        |        |           | 269.8    |  |  |
| Cellular Telephone and Service                                 | 1035A     | 64.24    |                           |        |        |           | 96.3     |  |  |
| Video Camera   |           | 32.12    |                           |        |        |           | 48.1     |  |  |
| Computer   |           | 96.36    |                           |        |        | 75.Ac.    | 289.0    |  |  |
| Brushcutter, power   |           | 96.36    |                           |        |        |           | 385.4    |  |  |
| Chainsaw   |           | 64.24    |                           |        |        |           | 128.4    |  |  |
| EOD Demolition Kit   |           | 51.39    |                           |        |        |           | 51.3     |  |  |
| Foester Ferrex Ordnance Locator                                |           | 385.43   |                           |        |        |           |          |  |  |
| Schonstedt Magnetic Locator                                    |           | 51,39    |                           |        |        |           | 616.6    |  |  |
| Explosive Storage magazine                                     |           | 44.97    |                           |        |        |           | 179.8    |  |  |
| Carrier Phase GPS  |           | 899.35   |                           |        |        |           | 899.3    |  |  |
| Surveyor's Kit   |           | 64.24    |                           |        |        |           | 32.1     |  |  |
| Total Station Survey Equipment                                 |           | 835.11   |                           |        |        |           | 835.1    |  |  |
| Ford Explorer  |           | 321.20   |                           |        |        |           | 963.€    |  |  |
| Pickup, 4x4, 3/4 Ton   |           | 449.67   |                           |        |        |           | 1,011.7  |  |  |
| Air Fare - Round Trip  |           | 1,220,54 |                           |        |        |           | 9,764.3  |  |  |
| rui i uro - (Nouro irip  |           | .,       |                           |        |        |           | 340.0    |  |  |

0.40

1.74

68.09

38.55

192.72

205.56

154.17

963.59

899.35

770.87

1,541.74 300.00

1,927.17

440.00

441.96

6,196.19

3,546.60

2,601.72

1,438.92

616.68

899.35

770.87

154.17

300.00

33,125.76

Corps of Engineers Camp Croft, Spertenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forest Area - A Cleerance of Compost Area - B

Task 1 Site Visit

| Labor Category                        |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People_ | Estimated<br>Hours | Amount |
|---------------------------------------|---------|--------------------------|----------------------|-----------------|-------------------|--------------------|--------|
| Program Management I                  |         | 82.06                    | -                    | •               | -                 |                    | •      |
| Project Manager III                   |         | 76.92                    |                      |                 |                   | •                  | -      |
| Project Manager II                    |         | 66.67                    | -                    | -               | -                 | •                  | •      |
| Certified Industrial Hygienist        |         | 74.81                    |                      |                 |                   | •                  | -      |
| Engineer II                           |         | 76.92                    |                      |                 |                   |                    | •      |
| Survey Manager                        |         | 56.42                    |                      |                 |                   |                    | -      |
| Surveyor V                            |         | 46.16                    |                      |                 |                   | -                  |        |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |         |                          |                      |                 |                   |                    |        |
| Quality Control Specialist            | Regular | 47.04                    |                      |                 |                   | •                  | -      |
|                                       | Regular | 47.04                    |                      |                 |                   | -                  | -      |
|                                       | Regular | 53.29                    | •                    | •               | •                 | •                  | •      |
|                                       | Regular | 47.04                    |                      |                 |                   | -                  | •      |
|                                       | Regular | 40.49                    |                      |                 |                   | -                  | -      |
| UXO Technician III                    | Reguler | 34.10                    |                      |                 |                   | -                  | -      |
| Laborer II                            | Regular | 28.65                    |                      |                 |                   | •                  | -      |

Subtotal - Labor

|       | Loaded   | Number   | Number   |  |  |
|-------|----------|--|--|--|--|
|       |          | ,  | 14/41   15/45  |  |  |
|       | Rate     | Weeks  | Units  |  | Amount   |
|       | 25.69    |  |  |  | -  |
| -     | 44.97    |  |  |  | -  |
|       | 64.24    | -  | -  |  | -  |
|       | 32.12    | -  | -  |  | -  |
|       | 96.36    |  |  |  | -  |
|       | 96.38    |  |  |  |  |
|       | 64.24    |  |  |  | -  |
|       | 51.39    |  |  |  |  |
|       | 385.43   | -  | -  |  |  |
|       | 51.39    | -  | -  |  |  |
|       | 44.97    | -  | •  |  |  |
|       | 899.35   | -  | •  |  |  |
|       | 64.24    | -  | -  |  |  |
|       | 835.11   | -  | -  |  | •  |
|       | 321.20   | -  | -  |  |  |
|       | 449.67   | -  | -  |  |  |
|       | 1,220.54 | -  | -  |  |  |
|       | 0.40     | -  | •  |  |  |
|       | 1.74     |  | -  |  |  |
|       | 68.09    | -  | •  |  |  |
|       | 38.55    | -  | •  |  | •  |
|       | 192.72   | -  | -  |  |  |
| 1 4 1 | 205.56   |  |  |  |  |
|       | 154.17   |  |  |  |  |
|       | 963.59   |  |  |  | •  |
|       | 1,927.17 |  |  |  |  |
|       | 899.35   |  |  |  |  |
|       | 770.67   |  |  |  |  |
|       | 1,541.74 |  |  |  |  |
|       | 300.00   |  |  |  |  |
| osts  | \        |  |  |  |  |
|       |          | 32.12<br>96.36<br>96.38<br>64.24<br>51.39<br>385.43<br>51.39<br>44.97<br>899.35<br>64.24<br>835.11<br>321.20<br>449.67<br>1,220.54<br>0,40<br>1.74<br>68.09<br>38.55<br>192.72<br>205.56<br>154.17<br>963.59<br>1,927.17<br>889.35<br>770.67<br>1,541.74<br>300.00 | 32.12<br>96.36<br>96.36<br>64.24<br>51.39<br>385.43<br>51.39<br>44.97<br>899.35<br>64.24<br>835.11<br>321.20<br>449.67<br>1,220.54<br>0.40<br>1.74<br>68.09<br>38.55<br>192.72<br>206.56<br>154.17<br>963.59<br>1,927.17<br>899.35<br>770.67<br>1,541.74<br>300.00 | 32.12 96.36 96.38 64.24 51.39 385.43 51.39 44.97 899.35 64.24 835.11 321.20 449.67 1,220.54 0.40 1.74 68.09 38.55 192.72 205.56 154.17 963.59 1,927.17 889.35 770.67 1,541.74 300.00 | 32.12<br>96.36<br>96.36<br>64.24<br>51.39<br>385.43<br>51.30<br>44.97<br>899.35<br>64.24<br>835.11<br>321.20<br>449.67<br>1,220.54<br>0.40<br>1.74<br>68.09<br>38.55<br>192.72<br>205.68<br>154.17<br>963.59<br>1,927.17<br>899.35<br>770.67<br>1,541.74<br>300.00 |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forest Area - A Clearance of Compost Area - B

Task 2 Work Plan

| Clearance of Compo             | st Area - B  |                |             |                 | 7                | PORK PERMI   |           |
|--------------------------------|--------------|----------------|-------------|-----------------|------------------|--------------|-----------|
|                                |              | Loaded         | Hours       | Number          | N. mbar          | Estimated    |           |
|                                |              | Hourly         | per<br>Week | Number<br>Weeks | Number<br>People | Hours        | Amount    |
| Labor Category                 |              | Rate           |             | 0.40            | 1.00             | 16.80        | 1,378.61  |
| Program Management I           |              | 82.06          | 42.00       | 0.40            | 1.00             | 10.00        | 1,070.01  |
| Project Manager III            |              | 76.92<br>66.67 | 42.00       | 1.50            | 1.00             | 63.00        | 4,200,21  |
| Project Manager II             |              |                | 40.00       | 0.30            | 1.00             | 12.00        | 897.72    |
| Certified Industrial Hygienisi |              | 74.81          | 42.00       | 0.40            | 1.00             | 16.80        | 1,292.26  |
| Engineer II                    |              | 76.92<br>56.42 | 42.00       | 0.50            | 1.00             | 21.00        | 1,184.82  |
| Survey Manager                 |              | 46.16          | 4200        | 0.50            | 1.00             |              | •         |
| Surveyor V                     |              | 40.10          |             |                 |                  |              |           |
|                                |              | 47.04          |             |                 |                  |              |           |
| Quality Control Specialist     | Regular      | 47.04          |             |                 |                  |              | _         |
| Site Safety Officer            | Regular      | 53.29          | 40.00       | 0.75            | 1.00             | 30.00        | 1,598.70  |
| UXO Supervisor/Tech VI         | Regular      |                | 40.00       | 0.73            | 1.00             | •            | •         |
| UXO Supervisor/Tech V          | Regular      | 47.04          |             |                 |                  | _            | -         |
| UXO Technician IV              | Regular      | 40.49          |             |                 |                  | _            | _         |
| UXO Technician III             | Regular      | 34.10          |             |                 |                  | _            | _         |
| Laborer II                     | Regular      | 28.65          |             |                 |                  | _            |           |
| 0.44                           | -t-l L-b-s   |                |             |                 |                  | 159.60       | 10,552.32 |
| ŞUDI                           | otal - Labor |                |             |                 | 1                |              |           |
| 500 1                          |              |                |             |                 |                  |              |           |
|                                |              | Loaded         |             | Number          | Number           |              |           |
| Other Direct Costs             |              | Rate           |             | Weeks           | Units            |              | Amount    |
| FM Radio, Handheld w/ charger  |              | 25.69          |             |                 |                  | West Control | -         |
| FM Radio Repeater/Base Station | 1            | 44.97          |             |                 |                  |              | -         |
| Cellular Telephone and Service | •            | 64.24          |             |                 |                  |              | •         |
| Video Camera                   |              | 32.12          |             |                 |                  |              | -         |
| Computer                       |              | 98.36          |             | 1.00            | 1.00             |              | 96.36     |
| Brushcutter, power             |              | 96.36          |             |                 |                  |              | -         |
| Chainsaw                       |              | 64.24          |             |                 |                  |              | -         |
| EOD Demolition Kit             |              | 51.39          |             |                 |                  |              | -         |
| Foester Ferrex Ordnance Locato | Y .          | 385.43         |             |                 |                  |              | -         |
| Schonstedl Magnetic Locator    |              | 51.39          |             |                 |                  |              | -         |
| Explosive Storage magazine     |              | 44.97          |             |                 |                  |              | -         |
| Cerrier Phase GPS              |              | 899.35         |             |                 |                  |              | -         |
| Surveyor's Kit                 |              | 64.24          |             |                 |                  |              | -         |
| Total Station Survey Equipment |              | 835.11         |             |                 |                  |              | -         |
| Ford Explorer                  |              | 321.20         |             | 1.00            | 1.00             |              | 321.20    |
| Pickup, 4x4, 3/4 Ton           |              | 449.67         |             |                 |                  |              |           |
| Air Fare - Round Trip          |              | 1,220.54       |             | 1.00            | 1.00             |              | 1,220.54  |
| Mileage                        |              | 0.40           |             | 50.00           | 1.00             |              | 20.00     |
| Fuel                           |              | 1.74           |             | 1.00            | 40.00            |              | 69.60     |
| Lodging                        |              | 68.09          |             | 6.00            | 1.00             |              | 408.54    |
| Meals and Incidentals          |              | 38.55          |             | 7.00            | 1.00             |              | 269.85    |
| Project Consumables            |              | 192.72         |             | 8.00            | 1.00             |              | 1,541.76  |
| Printing and Binding           |              | 205.56         |             | 1,00            | 2.00             |              | 411,12    |
| Shipping                       |              | 154.17         |             |                 |                  |              | -         |
| Site Trailer                   |              | 963.59         |             |                 |                  |              | •         |
| Electrical Hook Up             |              | 1,927.17       |             |                 |                  |              | •         |
| Magazine Fencing               |              | 899.35         |             |                 |                  |              | -         |
| Magazine Mobilization          |              | 770.87         |             |                 |                  |              |           |
| Donor Explosives               |              | 1,541.74       |             |                 |                  |              | •         |
| Site Remediation - Pine Farm   |              | 300.00         |             | L               |                  |              | 4,358.97  |
| Subtotal - Other               | Direct Costs |                |             |                 |                  |              |           |
|                                |              |                |             |                 |                  |              | 14,911.29 |
| Total Esti                     | mated Costs  |                |             |                 |                  |              | 17,311.23 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A

Task 3 Site Management

| Natural Brush/Forest Are                      | xa-A     |                 |             |                 | Tesk 3       |           |                 |  |  |
|---|----------|-----------------|-------------|-----------------|--------------|-----------|-----------------|--|--|
| Clearance of Compost Are                      | ea - B   |                 |             | Site Management |              |           |                 |  |  |
|   |          | Loaded          | Hours       | Number          | Number       | Estimated |                 |  |  |
| Labor Category                                |          | Hourly<br>Rate  | per<br>Week | Weeks           | People_      | Hours     | Amount          |  |  |
| Program Management 1                          |          | 82.06           |             |                 |              | •         | -               |  |  |
| Project Manager III                           |          | 76.92           | 42.00       | 1.25            | 1.00         | 52.50     | 4,038.30        |  |  |
| Project Manager II                            |          | 66.67           |             |                 |              | •         | •               |  |  |
| Certified Industrial Hygienist                |          | 74.81           |             |                 |              | -         | •               |  |  |
| Engineer II                                   |          | 76.92           |             |                 |              | -         | •               |  |  |
| Survey Manager                                |          | 56.42           |             |                 |              | •         | •               |  |  |
| Surveyor V                                    |          | 46.16           |             |                 |              |           | -               |  |  |
|   |          | • :             |             |                 |              |           | * * .           |  |  |
| Quality Control Specialist                    | Regular  | 47.04           |             |                 |              |           | -               |  |  |
| Site Safety Officer                           | Regular  | 47.04           | 40.00       | 1.25            | 1.00         | 50.00     | 2,352.00        |  |  |
| UXO Supervisor/Tech VI                        | Regular  | 53.29           | 40.00       | 1.25            | 1.00         | 50.00     | 2,664.50        |  |  |
| UXO Supervisor/Tech V                         | Regular  | 47.04           |             |                 |              | -         | •               |  |  |
| UXO Technician IV                             | Regular  | 40.49           |             |                 |              | -         | •               |  |  |
| UXO Technician III                            | Regular  | 34.10           |             |                 |              | -         | •               |  |  |
| Laborer II                                    | Regular  | 28.65           |             |                 |              | •         | -               |  |  |
| <u> </u>                                      |          |                 |             |                 |              | 450 50    | 9,054.80        |  |  |
| Subtotal -                                    | Labor    |                 |             |                 |              | 152.50    | 9,054.80        |  |  |
|   |          |                 |             |                 |              |           |                 |  |  |
|   |          |                 |             | Normal          | Number       |           | ·               |  |  |
|   |          | Loaded          |             | Number<br>Weeks | Units        |           | Amount          |  |  |
| Other Direct Costs                            | <u> </u> | Rate            |             | THOCKS          | Ullas        |           | - Cultocalit    |  |  |
| FM Radio, Handheld w/ charger                 |          | 25.69           |             | 4.50            | 4.00         |           | 269.82          |  |  |
| FM Radio Repeater/Base Station                |          | 44.97           |             | 1.50            | 4.00         |           | 209.62<br>96.36 |  |  |
| Cellular Telephone and Service                |          | 64.24           |             | 1.50            | 1.00<br>1.00 |           | 48.18           |  |  |
| Video Camera                                  |          | 32.12           |             | 1.50<br>1.50    | 1.00         |           | 144.54          |  |  |
| Computer                                      |          | 96.36           |             | 1.30            | 1.00         |           | 177.07          |  |  |
| Brushcutter, power                            |          | 96.36           |             |                 |              |           |                 |  |  |
| Chainsew                                      |          | 64.24           |             |                 |              |           | -               |  |  |
| EOD Demolition Kit                            | *        | 51.39<br>385.43 |             |                 |              |           | -               |  |  |
| Foester Ferrex Ordnance Locator               |          | 363.43<br>51.39 |             |                 |              |           | -               |  |  |
| Schonstedi Magnetic Locator                   |          | 44.97           |             | 2.00            | 200          |           | 179.88          |  |  |
| Explosive Storage magazine                    |          | 899.35          |             | 2.00            |              |           | 110.00          |  |  |
| Carrier Phase GPS                             |          | 64.24           |             |                 |              |           | -               |  |  |
| Surveyor's Kit Total Station Survey Equipment |          | 835,11          |             |                 |              |           | _               |  |  |
| Ford Explorer                                 |          | 321.20          |             |                 |              |           | _               |  |  |
| Pickup, 4x4, 3/4 Ton                          |          | 449.67          |             |                 |              |           | _               |  |  |
| Air Fare - Round Trio                         |          | 1,220.54        |             | 1.00            | 3.00         |           | 3,661.62        |  |  |
| Mileage                                       |          | 0.40            |             | 750.00          | 1.00         |           | 300.00          |  |  |
| Fuel  |          | 1.74            |             | 32.00           | 1.00         |           | 55.68           |  |  |
| Lodging                                       |          | 68.09           |             | 5.00            | 2.00         |           | 680.90          |  |  |
| Meals and incidentals                         |          | 38.55           |             | 5.00            | 2.00         |           | 385.50          |  |  |
| Project Consumables                           |          | 192.72          |             | 2.00            | 1.00         |           | 385.44          |  |  |
| Printing and Binding                          |          | 205.56          |             | 2.00            | 1.00         |           | 411,12          |  |  |
| Shipping                                      |          | 154.17          |             | 1.00            | 3.00         |           | 462.51          |  |  |
| Site Trailer                                  |          | 963.59          |             | -               | 1.00         |           | •               |  |  |
| Electrical Hook Up                            |          | 1,927.17        |             | -               | 1.00         |           | •               |  |  |
| Magazine Fencing                              |          | 899.35          |             | 1.00            | 1.00         |           | 899.35          |  |  |
| Magazine Mobilization                         | ·        | 770.87          |             | 1.00            | 1.00         |           | 770.87          |  |  |
| Donor Explosives                              | S        | 1,541.74        |             |                 |              |           | -               |  |  |
| Site Remediation - Pine Farm                  |          | 300.00          |             |                 |              |           |                 |  |  |
| Subtotal - Other Direct                       | Costs    |                 |             |                 |              |           | 8,751.77        |  |  |

Total Estimated Costs

17,806.57

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Classrapes of Compact Area - B

Task 4 Land Survey

| Labor Category  Program Management I Project Manager III Project Manager III Project Manager III Certified Industrial Hygienist Engineer II Survey Manager Surveyor V  Quality Control Specialist Site Safety Officer UXO Supervisor/Tech VI UXO Supervisor/Tech VI Regular UXO Supervisor/Tech VI Regular UXO Technician IVI Regular Laborer III Regular  Subtotal - Labor  Subtotal - Labor  Subtotal - Labor  Computer Brushoutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonsledt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | Rate  82.06 76.92 66.67 74.81 76.92 56.42 46.18  47.04 47.04 53.29 47.04               | Hours<br>per<br>Week<br>42.00<br>42.00 | Number<br>Weeks<br>0.50<br>0.50 | Number<br>People | Estimated<br>Hours        | Amount   |
|--|--|--|---------------------------------|------------------|---------------------------|----------|
| Program Management I Project Manager III Project Manager III Project Manager III Certified Industrial Hygienist Engineer II Survey Manager Surveyor V  Quality Control Specialist Site Safety Officer Regular UXO Supervisor/Tech VI Regular UXO Supervisor/Tech V Regular UXO Technician IV Regular Regular Regular Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushoutter, power Chainsaw EOD Demoktion Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage megazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 82.06<br>76.92<br>66.67<br>74.81<br>76.92<br>56.42<br>46.18<br>47.04<br>47.04<br>53.29 | 42.00                                  | 0.50                            | 1.00             | -<br>-<br>-<br>-<br>21.00 | •        |
| Project Manager III Project Manager III Certified Industrial Hygienist Engineer II Survey Manager Surveyor V  Quality Control Specialist Site Safety Officer Regular UXO Supervisor/Tech VI Regular UXO Supervisor/Tech VI Regular UXO Technician IVI Regular UXO Technician IIII Regular Laborer III Regular Subtotal - Labor  Subtotal - Labor  Other Direct Costs FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushoutter, power Chainsaw EOD Demoition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 76.92<br>66.67<br>74.81<br>76.92<br>56.42<br>46.18<br>47.04<br>47.04<br>53.29          |  |                                 |                  |                           | •        |
| Project Manager II Certified Industrial Hygienist Engineer II Survey Manager Surveyor V  Quality Control Specialist Site Safety Officer UXO Supervisor/Tech VI UXO Supervisor/Tech VI UXO Technician IVI UXO Technician IIII Laborer IIII Regular Regular Subtotal - Labor  Other Direct Costs FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushoutter, power Chainsaw EOD Demoktion Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 66.67<br>74.81<br>76.92<br>56.42<br>46.18<br>47.04<br>47.04<br>53.29                   |  |                                 |                  |                           | •<br>•   |
| Certified Industrial Hygienist Engineer II Survey Manager Surveyor V  Cuality Control Specialist Regular Site Safety Officer Regular UXO Supervisor/Tech VI Regular UXO Supervisor/Tech V Regular UXO Technician IVI Regular UXO Technician III Regular Laborer II Regular Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushoutler, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 74.81<br>76.92<br>56.42<br>46.18<br>47.04<br>47.04<br>53.29                            |  |                                 |                  |                           | -        |
| Engineer II Survey Manager Surveyor V  Quality Control Specialist Regular Site Safety Officer Regular UXO Supervisor/Tech V Regular UXO Supervisor/Tech V Regular UXO Technician IV Regular UXO Technician III Regular Laborer II Regular Subtotal - Labor  Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 76.92<br>56.42<br>46.16<br>47.04<br>47.04<br>53.29                                     |  |                                 |                  |                           | _        |
| Survey Manager Surveyor V  Quality Control Specialist Regular Site Safety Officer Regular UXO Supervisor/Tech V Regular UXO Supervisor/Tech V Regular UXO Technician IV Regular UXO Technician III Regular Laborer II Regular Subtotal - Labor  Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 56.42<br>46.18<br>47.04<br>47.04<br>53.29  |  |                                 |                  |                           |          |
| Surveyor V  Quality Control Specialist Regular Site Safety Officer Regular UXO Supervisor/Tech VI Regular UXO Supervisor/Tech VI Regular UXO Technician IVI Regular UXO Technician III Regular Laborer II Regular  Subtotal - Labor  Cother Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera  Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Orchance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 46.16<br>47.04<br>47.04<br>53.29   |  |                                 |                  |                           | 1,184.82 |
| Quality Control Specialist Regular Site Safety Officer Regular UXO Supervisor/Tech VI Regular UXO Supervisor/Tech VI Regular UXO Technician IV Regular UXO Technician IVI Regular UXO Technician III Regular Laborer III Regular Subtotal - Labor  Colher Direct Costs FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Camer Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 47.04<br>47.04<br>53.29  |  |                                 |                  | 21.00                     | 969.36   |
| Site Safety Officer UXO Supervisor/Tech VI UXO Supervisor/Tech V UXO Technician IV UXO Technician IV UXO Technician III UXO Tec | 47.04<br>53.29   |  |                                 |                  | التنتقصي                  |          |
| Site Safety Officer UXO Supervisor/Tech VI UXO Supervisor/Tech V UXO Technician IV UXO Technician IV UXO Technician III UXO Tec | 53.29  |  |                                 |                  | •                         | -        |
| UXO Supervisor/Tech V Regular UXO Supervisor/Tech V Regular UXO Technician IV Regular UXO Technician III Regular Laborer II Regular Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushoutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 53.29  |  |                                 |                  | -                         | -        |
| UXO Supervisor/Tech V Regular UXO Technician IV Regular LXO Technician III Regular Laborer II Regular Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   |  |  |                                 |                  | -                         | -        |
| UXO Technician IV Regular Laborer II Regular Laborer II Regular Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Cheinsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   |  |  |                                 |                  | •                         | •        |
| UXO Technician III Regular Laborer III Regular Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Cheinsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 40.49  |  |                                 |                  |                           | •        |
| Subtotal - Labor  Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger  FM Radio Repeater/Base Station  Cellular Telephone and Service  Video Camera  Computer  Brushcutter, power  Cheinsaw  EOD Demolition Kit  Foester Ferrex Ordnance Locator  Schonstedt Magnetic Locator  Explosive Storage magazine  Carrier Phase GPS  Surveyor's Kit  Total Station Survey Equipment  Ford Explorer  Pickup, 4x4, 3/4 Ton  Alr Fare - Round Trip  Mileage  Fuel  Lodging  Meals and Incidentals  Project Consumables  Printing and Binding   | 34.10  | 40.00                                  | 0.50                            | 1.00             | 20.00                     | 682.00   |
| Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger  FM Radio Repeater/Base Station  Cellular Telephone and Service  Video Camera  Computer  Brushcutter, power  Cheinsaw  EOD Demolition Kit  Foester Ferrex Ordnance Locator  Schonstedt Magnetic Locator  Explosive Storage magazine  Carrier Phase GPS  Surveyor's Kit  Total Station Survey Equipment  Ford Explorer  Pickup, 4x4, 3/4 Ton  Alr Fare - Round Trip  Mileage  Fuel  Lodging  Meals and Incidentals  Project Consumables  Printing and Binding   | 28.65  |  |                                 |                  | -                         | -        |
| Subtotal - Labor  Other Direct Costs  FM Radio, Handheld w/ charger  FM Radio Repeater/Base Station  Cellular Telephone and Service  Video Camera  Computer  Brushcutter, power  Chainsaw  EOD Demolition Kit  Foester Ferrex Ordnance Locator  Schonsledt Magnetic Locator  Explosive Storage magazine  Carrier Phase GPS  Surveyor's Kit  Total Station Survey Equipment  Ford Explorer  Pickup, 4x4, 3/4 Ton  Alr Fare - Round Trip  Mileage  Fuel  Lodging  Meals and Incidentals  Project Consumables  Printing and Binding   |  |  |                                 |                  | -                         |          |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage megazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   |  |  |                                 |                  | 62.00                     | 2,836.18 |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage megazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   |  |  |                                 |                  |                           |          |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | Loaded   |  | Number                          | Number           |                           | i        |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage megazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | Rate   |  | Weeks                           | Units            | 1                         | Amount   |
| FM Radio Repeater/Base Station Cellutar Telephone and Service Video Camera Computer Brushoutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonsledt Magnetic Locator Explosive Storage megazine Camer Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 25.69  |  | 0.50                            | 2.00             |                           | 25.69    |
| Cellular Telaphone and Service Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 44.97  |  | 0.00                            | 200              |                           | 20.00    |
| Video Camera Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 64.24  |  |                                 |                  |                           | _        |
| Computer Brushcutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 32.12  |  |                                 |                  |                           |          |
| Brushoutter, power Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 96.36  |  | 0.50                            | 1.00             |                           | 48.18    |
| Chainsaw EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 96.36  |  | 0.50                            | 1.00             |                           | 40.10    |
| EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 64.24  |  |                                 |                  |                           | _        |
| Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 51.39  |  |                                 |                  |                           | _        |
| Schonstedt Magnetic Locator Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 385.43   |  |                                 |                  |                           | _        |
| Explosive Storage magazine Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 51,39  |  | 0.50                            | 1.00             |                           | 25.70    |
| Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 44.97  |  | 0.00                            | 1.00             |                           | 20       |
| Surveyor's Kit Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 899.35   |  | 0.50                            | 200              |                           | 899.35   |
| Total Station Survey Equipment Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 64.24  |  | 0.50                            | 1.00             |                           | 32.12    |
| Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 835.11   |  | 1.00                            | 1.00             |                           | 835.11   |
| Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding   | 321,20   |  | 1.00                            | 1.00             |                           | 321.20   |
| Alr Fare - Round Trip Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 449.67   |  | 1.00                            | 1.00             |                           | 021.20   |
| Mileage Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 1,220,54   |  | 1.00                            | 200              |                           | 2,441.08 |
| Fuel Lodging Meals and Incidentals Project Consumables Printing and Binding  | 0.40   |  | 50.00                           | 2.00             |                           | 40.00    |
| Lodging<br>Meals and Incidentals<br>Project Consumables<br>Printing and Binding  | 1.74   |  | 32.00                           | 1.00             |                           | 55.68    |
| Meals and Incidentals<br>Project Consumables<br>Printing and Binding   | 68,09  |  | 4.00                            | 2.00             |                           | 544.72   |
| Project Consumables<br>Printing and Binding  | 38.55  |  | 4.00                            | 2.00             |                           | 308.40   |
| Printing and Binding   | 192.72   |  | 0.50                            | 1.00             |                           | 96.36    |
|  | 205.56   |  | 1.00                            | 1.00             |                           | 205.56   |
| Shipping   | 154,17   |  | 1.00                            | 1.00             |                           | 154.17   |
| Site Trailer   | 963.59   |  | 1.00                            |                  |                           |          |
| Electrical Hook Up   | 1,927.17   |  |                                 |                  |                           | -        |
| Magazine Fencing   | 899.35   |  |                                 | ·                |                           | -        |
| Magazine Mobilization  |  |  |                                 |                  |                           |          |
| Donor Explosives   |  |  |                                 |                  |                           | _        |
| Site Remediation - Pine Farm   | 770.87   |  |                                 |                  |                           | •        |
| Subtotal - Other Direct Costs  |  |  |                                 |                  |                           | 6,033.32 |

Total Estimated Costs

8,869.50

Corps of Engineers
Camp Croft, Sparterburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Task 5 Brush Clearance

| Quality Control Specialist   Regular   47,04   Site Safety Officer   Regular   47,04   Site Safety Officer   Regular   47,04   UXO Supervisor/Tech V   Regular   47,04   UXO Supervisor/Tech V   Regular   47,04   UXO Supervisor/Tech V   Regular   47,04   UXO Technician IV   Regular   47,04   UXO Technician IV   Regular   34,10   UXO Technician III   Regular   28,65   40,00   1,00   6,00   240,00   6,876   | Clearance of Compost Area      | - B      |        |       |        | Brus   | th Clearance |              |
|--|--------------------------------|----------|--------|-------|--------|--------|--------------|--------------|
| Project Manager  | ·                              |          | Hourty | per   |        |        |              |              |
| Project Manager  | Labor Category                 |          |        | Week  | Weeks  | People | Hours        | Amount       |
| Project Manager  | Program Management I           |          |        |       |        |        | -            | -            |
| Cartified Inclustrial Hygienist   74.81   78.92   -  | Project Manager III            |          |        |       |        |        | •            | •            |
| Engineer II  | Project Manager II             |          |        |       |        |        | •            | •            |
| Surveyor V   | Certified Industrial Hygienist |          |        |       |        |        | -            | •            |
| A8.16     A8.16     A8.16      | Engineer II                    |          |        |       |        |        | •            | •            |
| Quality Corried Specialist   Regular   47.04   | Survey Manager                 |          | 56.42  |       |        |        | •            | -            |
| Cuality Control Specialis    Regular   A7.04   Substitution   Regular   A7.04   Substitution   Regular   A7.04   Substitution   Regular   A7.04   Substitution   Regular   A7.04   Substitution   Regular   A7.04   A0.00      | Surveyor V                     |          | 46.16  |       |        |        | •            | •            |
| Site Safety Officer   Regular   47,04   UXO Supervisor/Tech V   Regular   53,29  |                                |          |        |       |        |        |              | August Pesse |
| UXO Supervisor/Tech VI Regular 47.04 UXO Supervisor/Tech VI Regular 47.04 UXO Supervisor/Tech VI Regular 47.04 UXO Technician IVI Regular 34.10 UXO Technician IIII Regular 34.10 UXO Technician IIII Regular 34.10 Laborer III Regular 28.65  Subtotal - Labor  |                                | Regular  |        |       |        |        | -            | -            |
| UXO Supervisor/Tech V Regular 47,04 UXO Technician IV Regular 40,49 40,00 1,00 2,00 80,00 3,239 UXO Technician III Regular 28,65 40,00 1,00 6,00 240,00 6,876  Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - Labor Subtotal - College Subtotal - Labor Subtotal - College Subtotal | Site Safety Officer            | _        |        |       |        |        | -            | -            |
| UXO Technician IV Regular 40.49 40.00 1.00 2.00 80.00 3.238   UXO Technician III Regular 34.10   Laborer III Regular 34.10   Laborer III Regular 28.65 40.00 1.00 6.00 240.00 6,876    Subtotal - Labor    Loeded Number Number Units Amount   FM Radio, Handheld witcharger 25.69 1.00 2.00 51   FM Radio, Handheld witcharger 32.12   Computer 96.38   Brushcutter, power 96.39 1.00 4.00 335   Chainsaw 64.24 1.00 2.00 128   EDD Demolition Kit 51.39   Foester Ferrex Ordnance Locator 51.39 1.00 2.00 128   EDD Demolition Kit 64.24 1.00 2.00 128   Explosive Storage magazine 24.87   Carrier Phase GPS 89.35   Surveyor's Kit 64.24   Total Station Survey Equipment 835.11   Ford Explorer 94.24   Ford Explorer 94.24   Ford Explorer 95.25   Mireage 94.00 8.00 2.00 110    Finel Total Station Survey Equipment 95.25    Ford Explorer 95.25   Mireage 95.26   Mireage 95.27   Mireage 95.28   Mireage 95.29   Mireage 95.30   Mi | UXO Supervisor/Tech VI         | Regular  |        |       |        |        | -            | -            |
| UXO Technician III   | UXO Supervisor/Tech V          | Regutar  | 47.04  |       |        |        | -            | -            |
| Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Coler Direct Costs   Subtotal - Coler Direct    | UXO Technician IV              | Regular  | 40.49  | 40.00 | 1.00   | 2.00   | 80.00        | 3,239.20     |
| Close   Costs   Coded   Number   Numb   | UXO Technician III             | Regular  | 34.10  |       |        |        | •            | •            |
| Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   | Laborer II                     | Regular  | 28.65  | 40.00 | 1.00   | 6.00   | 240.00       | 6,876.00     |
| Collect Direct Costs   |                                |          |        |       |        |        |              |              |
| Cher Direct Costs   Rate   Weeks   Units   Amount  | Subtotal - Lab                 | 700      |        |       |        |        | 320.00       | 10,115.20    |
| Cher Direct Costs   Rate   Weeks   Units   Amount  |                                |          |        |       |        |        |              |              |
| FM Radio, Handheld w/ charger 25.99 1.00 2.00 51 FM Radio RepeaterBase Station 44.97 Cellular Telephone and Service 64.24 Video Camera 32.12 Computer 96.36 Brushcutter, power 96.36 Brushcutter, power 96.36 Chainsaw 64.24 1.00 2.00 128 EOD Demolition Kit 51.39 Foester Ferrex Ordinance Locator 385.43 Schonstedt Magnetic Locator 51.39 1.00 2.00 102 Explosive Storage magazine 44.97 Carrier Phase GPS 899.35 Surveyor's Kit 64.24 Total Stationsurvey Equipment 835.11 Ford Explorer 321.20 Pictup, Av4, 3/4 Ton 44.967 1.00 2.00 899 Air Fare - Round Trip 1.220.54 Mileage 0.40 50.00 2.00 40 Fuet 1.74 32.00 2.00 111 Codging 68.99 4.00 8.00 2.178 Meals and Incidentals 38.55 4.00 8.00 1.233 Project Consumables 192.72 Printing and Binding 154.17 Site Trailer 963.59 Electrical Hook Up 1.927.17 Magazzine Hobilization 770.87 Donor Explosives Subtotal - Other Direct Costs  |                                |          | Loaded | ••••  | Number | Number |              |              |
| FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera 32.12 Computer 96.36 Brushcutter, power 96.36  | Other Direct Costs             |          | Rate   |       |        | Units  |              | Amount       |
| FM Radio Repeater/Base Station Cellular Telephone and Service Video Camera 32.12 Computer 96.36 Brushcutter, power 96.36  | FM Radio, Handheld w/ charger  |          | 25.69  |       | 1.00   | 200    |              | 51.38        |
| Cellular Telephone and Service Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Camera Video Video Video Video Camera Video Video Video Video Video Video Camera Video Vid |                                |          | 44.97  |       |        |        |              |              |
| Video Camera       32.12         Computer       96.36         Brushcutter, power       96.36         Chainsaw       64.24       1.00       2.00         EOD Demolition Kit       51.39       1.00       2.00       128         Foester Ferrex Ordnance Locator       385.43       3       3       3       3       1.00       2.00       102       2.00       102       2.00       102       2.00       102       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       2.00       1.00       1.00       2.00       1.00       1.00       1.00       2.00       1.00 <td< td=""><td>•</td><td></td><td>64.24</td><td></td><td></td><td></td><td></td><td></td></td<>  | •                              |          | 64.24  |       |        |        |              |              |
| Brushoutter, power   | Video Camera                   |          | 32.12  |       |        |        |              | -            |
| Brushcutter, power 98.36 1.00 4.00 385 Chainsaw 64.24 1.00 2.00 128 EOD Demolition Kit 51.39 5 Foester Ferrex Ordnance Locator 385.43 5 Schonsteck Magnetic Locator 51.36 1.00 2.00 102 Explosive Storage magazine 44.97   | Computer                       |          |        |       |        |        |              | -            |
| Chainsaw   64.24   1.00   2.00   128   | •                              |          |        |       | 1.00   | 4.00   |              | 385.44       |
| EOD Demolition Kit Foester Ferrex Ordnance Locator Schonstect Magnetic Locator Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Equipment Explosive Station Survey Station Explosive Station Survey Station Explosive Station Station Explosive Station Station Explosive Station Explosive Station Station Explosive Station Station Explosive Station Explosive Station Station Explosive Station Station Explosive Station Explosive Station Station Explosive Station Station Explosive Station Explosi |                                |          |        |       |        |        |              | 128.48       |
| Foester Ferrex Ordnance Locator   385,43   Schonstedt Magnetic Locator   51,39   1,00   2,00   102   Explosive Storage magazine   44,97   Carrier Phase GPS   899,35   Surveyor's Kit   64,24   Total Station Survey Equipment   835,11   Ford Explorer   321,20   Ficting AxA, 3/4 Ton   449,67   1,00   2,00   899   AIr Fare - Round Trip   1,220,54   Mileage   0,40   50,00   2,00   40   Mileage   0,40   50,00   2,00   40   Mileage   1,174   32,00   2,00   111   Locating Air Fare - Round Trip   68,09   4,00   8,00   2,178   Meats and Incidentals   38,55   4,00   8,00   1,233   Project Consumables   192,72   1,00   1,00   182   Printing and Binding   205,56   Shipping   154,17   Shipping   154,17   Shipping   154,17   Shipping   192,71   Magazine Fencing   899,35   Magazine Fencing   899,35   Magazine Fencing   899,35   Magazine Mobilization   770,87   Donor Explosives   1,541,74   300,00   5,323   Mileage   1,541,74   300,00   3,323   Mileage   1,541,74   3,   |                                |          |        |       |        |        | •            | -            |
| Schonstedt Magnetic Locator 51.39 1.00 2.00 102 Explosive Storage magazine 44.97 Carrier Phase GPS 899.35 Surveyor's Kit 64.24 Total Station Survey Equipment 835.11 Ford Explorer 321.20 Pickup, 1x4, 3/4 Ton 449.67 1.00 2.00 899 Air Fare - Round Trip 1,220.54 Mileage 0,40 50.00 2.00 40 Fuet 1.74 32.00 2.00 111 Lodging 68.09 4.00 8.00 2,178 Meals and Incidentals 38.55 4.00 8.00 1,233 Project Consumables 192.72 1.00 1.00 182 Printing and Binding 205.56 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 Subtotal - Other Direct Costs 5.323   |                                |          |        |       |        |        |              | _            |
| Explosive Storage magazine  Carrier Phase GPS  Surveyor's Kit  Total Station Survey Equipment  Ford Explorer  321.20  Pickup, 4x4, 3/4 Ton  Alr Fare - Round Trip  Mileage  0.40  Fuel  1.74  1.00  2.00  899  400  Fuel  1.74  32.00  2.00  400  Fuel  1.74  1.74  32.00  2.00  400  Fuel  1.74  32.00  2.00  411  1.6dging  68.09  4.00  8.00  2.178  Meals and Incidentals  192.72  Project Consumables  192.72  Printing and Binding  5hipping  154.17  Site Trailer  Electrical Hook Up  Magazine Fencing  Magazine Fencing  Magazine Mobilization  Donor Explosives  Subtotal - Other Direct Costs  5.323  |                                |          |        |       | 1.00   | 2.00   |              | 102.78       |
| Carrier Phase GPS Surveyor's Kit Total Station Survey Equipment Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip 1,220.54 Mileage 0,40 Fuel 1,74 1,74 32.00 2,00 40 Fuel Lodging 68.09 4.00 8,00 1,233 Project Consumables 192.72 Printing and Binding Shipping Shipping Site Trailer 963.59 Electrical Hook Up Magazine Fencing Magazine Mobilization Donor Explosives Site Remediation - Pine Farm Subtotal - Other Direct Costs  |                                |          |        |       |        |        | 2.3          | •            |
| Surveyor's Kit Total Station Survey Equipment Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton Air Fare - Round Trip  |                                |          |        |       |        |        |              |              |
| Total Station Survey Equipment 835.11 Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton 449.87 1.00 2.00 899 Alr Fare - Round Trip 1,220.54 Mileage 0,40 50.00 2.00 40 Fuet 1.74 32.00 2.00 111 Lodging 68.09 4.00 8.00 2,178 Meals and Incidentals 38.55 4.00 8.00 1,233 Project Consumables 192.72 1.00 1.00 192 Printing and Binding 205.56 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 Subtotal - Other Direct Costs  |                                |          |        |       |        |        |              |              |
| Ford Explorer Pickup, 4x4, 3/4 Ton Alr Fare - Round Trip 1,220.54 Mileage 10.40 Fuel 1.74 Set and Incidentals Froject Consumables Printing and Binding Shipping Shipping File Trailer Electrical Hook Up Magazine Fencing Magazine Mobilization Subtotal - Other Direct Costs  321.20 3200 3200 40 50.00 50.00 2.00 40 50.00 50.00 2.00 40 40 40 50.00 50.00 2.00 40 40 40 40 68.09 4.00 8.00 1111 4.00 8.00 12,178 4.00 8.00 12,233 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.   | •                              |          |        |       |        |        |              |              |
| Pickup, 4x4, 3/4 Ton       449.87       1.00       2.00       899         Alr Fare - Round Trip       1,220.54   |                                |          | 9      |       |        |        |              | _            |
| Alr Fare - Round Trip  Mileage  1,220.54  Mileage  1,240.54  Mileage  1,240.54  Lodging  Meals and Incidentals  1,241.74  Meals and Incidentals  1,241.75  Meals and Incidentals  1,241.75  Meals and Incidentals  1,241.75  Site Trailer  Electrical Hook Up  Magazine Fencing  Magazine Mobilization  Donor Explosives  1,541.74  Site Remediation - Pine Farm  Subtotal - Other Direct Costs  |                                |          |        |       | 1.00   | 200    |              | 899,34       |
| Mileage       0.40       50.00       2.00       40         Fuel       1.74       32.00       2.00       111         Lodging       68.09       4.00       8.00       2,178         Meals and incidentals       38.55       4.00       8.00       1,233         Project Consumables       192.72       1.00       1.00       182         Printing and Binding       206.56       56       56       56         Shipping       154.17       56       56       56       56         Shite Trailer       963.59       56       <  | • • •                          |          |        |       | 1.00   | 200    |              | - 000.04     |
| Fuel 1.74 32.00 2.00 1111 Lodging 68.09 4.00 8.00 2,178 Meals and Incidentals 38.55 4.00 8.00 1,233 Project Consumables 192.72 1.00 1.00 182 Printing and Binding 205.56 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation - Pine Farm 300.00 5,323  | •                              | 17.7     |        |       | 60.00  | 200    |              | 40.00        |
| Lodging       68.09       4.00       8.00       2,178         Meals and Incidentals       38.55       4.00       8.00       1,233         Project Consumables       192.72       1.00       1.00       182         Printing and Binding       205.56   | _                              |          |        |       |        |        |              | 111.36       |
| Meals and Incidentals       38.55       4.00       8.00       1,233         Project Consumables       192.72       1.00       1.00       192         Printing and Binding       205.56   | ··.                            | 11.1.1.1 |        |       |        |        |              | 2.176.68     |
| Project Consumables         192.72         1.00         1.00         192           Printing and Binding         205.56         -         -           Shipping         154.17         -         -           Site Trailer         963.59         -         -           Electrical Hook Up         1,927.17         -         -           Magazine Fencing         899.35         -         -           Magazine Mobilization         770.87         -         -           Donor Explosives         1,541.74         -         -           Site Remediation - Pine Farm         300.00         -         -           Subtotal - Other Direct Costs         5,323  | • •                            |          |        |       |        |        |              | 1,233.60     |
| Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       5,323   |                                |          |        |       |        |        |              | 192.72       |
| Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       5,323   |                                |          |        |       | 1.00   | 1.00   |              | 10212        |
| Site Trailer   963.59  |                                |          |        |       |        |        |              | •<br>-       |
| Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation - Pine Farm       300.00         Subtotal - Other Direct Costs       5,323   |                                |          |        |       |        | i      |              | _            |
| Magazine Fencing         899.35           Magazine Mobilization         770.87           Donor Explosives         1,541.74           Site Remediation - Pine Farm         300.00           Subtotal - Other Direct Costs         5,323   |                                |          |        |       |        |        |              | _            |
| Magazine Mobilization 770.87  Donor Explosives 1,541.74  Site Remediation - Pine Farm 300.00  Subtotal - Other Direct Costs 5,323  |                                |          |        |       |        |        |              | •            |
| Donor Explosives 1,541.74 - Site Remediation - Pine Farm 300.00 - Subtotal - Other Direct Costs 5,323  | -                              |          |        |       |        |        |              | -            |
| Site Remediation - Pine Farm 300.00 - Subtotal - Other Direct Costs 5,323  | •                              |          |        |       |        |        |              | •            |
| Subtotal - Other Direct Costs 5,323  | •                              |          |        |       |        |        |              | •            |
|  |                                | ds.      | 300.00 |       |        |        |              | 5,323.98     |
|  | SUDJUNCTI - CHIRA CHOC COS     | ~        |        |       |        |        |              | 0,323.00     |
| Total Estimated Costs 15 439   | Total Estimated Cos            | ets Est  |        |       |        |        | * 4          | 15,439.18    |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - 8

Task 6 Surface OE Removal

| Clearance of Compost Are                                  | a - 8   |                    |       |        | Surface OE | Removal   |           |
|---|---------|--------------------|-------|--------|------------|-----------|-----------|
|   |         | Loaded             | Hours |        |            |           |           |
|   |         | Hourly             | per   | Number | Number     | Estimated |           |
| Labor Category  |         | Rate               | Week  | Weeks  | People     | Hours     | Amount    |
| Program Management I                                      |         | 82.06              |       |        |            | -         | •         |
| Project Manager III                                       | :       | 76.92              |       |        |            | •         | •         |
| Project Manager II  |         | 66.67              |       |        |            | -         | •         |
| Certified Industrial Hygienist                            |         | 74,81              |       |        |            | -         | -         |
| Engineer II   |         | 76.92              |       |        |            | -         | •         |
| Survey Manager  |         | 56.42<br>46.16     |       |        |            | •         | •         |
| Surveyor V  |         | 40.10              |       |        |            | <u>-</u>  |           |
| Quality Control Specialist                                | Regular | 47.04              |       |        | . •        |           |           |
| Site Safety Officer                                       | Regular | 47.04              |       |        |            |           | -         |
| UXO Supervisor/Tech VI                                    | Regular | 53,29              |       |        |            | -         |           |
| UXO Supervisor/Tech V                                     | Regular | 47.04              | 40.00 | 1.00   | 1.00       | 40.00     | 1.881.60  |
| UXO Technician IV   | Regular | 40.49              | 40.00 | 1.00   | 4.00       | 160.00    | 6,478,40  |
| UXO Technician III  | Regular | 34.10              |       |        |            | -         |           |
| Laborer II  | Regular | 28.65              |       |        |            | -         | -         |
|   |         |                    |       |        |            |           |           |
| Subtotal - L  | abor    |                    |       |        |            | 200.00    | 8,360.00  |
| CATA ANT AND A  |         |                    |       |        |            |           | ngan si a |
| Hush Minist   |         |                    |       |        |            |           | 114 C.W.  |
|   |         | Loaded             |       | Number | Number     |           |           |
| Other Direct Costs  |         | Rate               |       | Weeks  | Units      | -         | Amount    |
| FM Radio, Handheld w/ charger                             |         | 25.69              |       | 1.00   | 2.00       |           | 51.38     |
| FM Radio Repeater/Base Station                            |         | 44.97              |       |        |            |           | •         |
| Cellular Telephone and Service                            |         | 64.24              |       |        |            |           | -         |
| Video Carnera   |         | 32.12              |       |        |            |           | -         |
| Computer  |         | 96.36              |       |        |            |           | -         |
| Brushoutter, power  |         | 96.36              |       |        |            |           | •         |
| Chainsew  |         | 64.24<br>51.39     |       | 4.00   |            |           | 51.39     |
| EOD Demotition Kit Foester Ferrex Ordnance Locator        |         | 385.43             |       | 1.00   | 1.00       |           | 31.39     |
| Schonstedt Magnetic Locator                               |         | 51.39              |       | 1.00   | 8.00       |           | 411,12    |
| Explosive Storage magazine                                |         | 44,97              |       | 1.00   | 0.00       |           | 717,12    |
| Carrier Phase GPS   |         | 899.35             |       |        |            |           |           |
| Surveyor's Kill   |         | 64.24              |       |        |            |           | •         |
| Total Station Survey Equipment                            |         | 835,11             |       |        |            |           | -         |
| Ford Explorer   |         | 321.20             |       |        |            |           | _         |
| Pickup, 4x4, 3/4 Ton                                      |         | 449.67             |       |        |            |           | -         |
| Air Fare - Round Trip                                     |         | 1,220.54           |       |        |            |           | -         |
| Mileage   | 1111    | 0.40               |       |        |            |           | -         |
| Fuel  |         | 1.74               |       |        |            |           | -         |
| Lodging   |         | 68.09              |       | 5.00   | 5.00       |           | 1,702.25  |
| Meals and incidentals                                     |         | 38.55              |       | 5.00   | 5.00       |           | 963.75    |
| Project Consumables                                       |         | 192.72             |       |        |            |           | -         |
| Printing and Binding                                      |         | 205.56             |       |        |            |           | •         |
| Shipping  |         | 154.17             |       |        |            |           | -         |
| Site Trailer  |         | 963.59             |       |        |            |           | -         |
| Electrical Hook Up  |         | 1,927.17           |       |        |            |           | •         |
| Magazine Fencing  |         | 899.35             |       |        |            |           | -         |
| Magazine Mobilization                                     |         | 770.87             |       | A 5A   | 0.00       |           | 45447     |
| Donor Explosives Site Remediation - Pine Farm             |         | 1,541.74<br>300.00 |       | 0.50   | 0.20       |           | 154.17    |
| Site Remediation - Pine Farm<br>Subtotal - Other Direct C | oute .  | 300.00             |       |        |            |           | 3,334.06  |
| GUADIAI * CARGI LARGA C                                   | 0013    |                    |       |        |            |           | 3,337.00  |
| Total Estimated C   | osts    |                    |       |        |            |           | 11,694.06 |
| TOTAL ESTIMATED C   | 0013    |                    |       |        |            |           | 11,007.00 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Task 7 Screo Turn-In

| Clearance of Compost Area - B               | Clearance of Compost Area - B Scrap Turn-In |                  |       |                 |                 |           |                 |
|---|---|------------------|-------|-----------------|-----------------|-----------|-----------------|
| ·   |   | Loaded           | Hours |                 |                 |           |                 |
|   |   | Hourly           | per   | Number          | Number          | Estimated |                 |
| Labor Category                              |   | Rate             | Week  | Weeks           | People          | Hours     | Amount          |
| Program Management I                        |   | 82.06            |       |                 |                 | -         | -               |
| Project Manager III                         |   | 76.92            |       |                 |                 | -         | -               |
| Project Manager II                          |   | 66.67            |       |                 |                 | •         | -               |
| Certified Industrial Hygienist              |   | 74.81            |       |                 |                 | •         | -               |
| Engineer II                                 |   | 76.92            |       |                 |                 | •         | -               |
| Survey Manager                              |   | 56.42            |       |                 |                 | -         | •               |
| Surveyor V                                  |   | 46.16            |       |                 |                 | -         | •               |
|   |   |                  |       |                 |                 |           | 7.66            |
| Quality Control Specialist                  | Regular                                     | 47.04            |       |                 |                 | -         | •               |
| Site Safety Officer                         | Regular                                     | 47.04            |       |                 |                 | -         |                 |
| UXO Supervisor/Tech VI                      | Regular                                     | 53.29            | 40.00 | 0.25            | 1.00            | 10.00     | 532.90          |
| UXO Supervisor/Tech V                       | Regular                                     | 47.04            |       |                 |                 |           |                 |
| UXO Technician IV                           | Regular                                     | 40.49            | 40.00 | 0.25            | 1,00            | 10.00     | 404.90          |
| UXO Technician III                          | Regular                                     | 34.10            |       |                 |                 | •         | •               |
| Laborer II                                  | Regular                                     | 28.65            |       |                 |                 | -         | •               |
| 31 S (8) S                                  |   |                  |       |                 |                 | *         | 207.44          |
| Subtotal - Labor                            |   |                  |       |                 |                 | 20.00     | 937.80          |
|   |   |                  |       |                 |                 |           |                 |
| 1000  |   | فيشموا           |       | No mark and     | his meh ar      |           |                 |
| Other Direct Conte                          |   | Loaded<br>Rate   |       | Number<br>Weeks | Number<br>Units |           | Amount          |
| Other Direct Costs                          |   |                  |       | TTOOKS          | ÇÎ IIIS         |           | ANIOGIL         |
| FM Radio, Handheld w/ charger               |   | 25.69            |       |                 |                 |           | •               |
| FM Radio Repeater/Base Station              |   | 44.97            |       |                 |                 |           | •               |
| Cellular Telephone and Service              |   | 64.24            |       |                 |                 |           | -               |
| Video Camera                                |   | 32.12            |       |                 |                 |           | -               |
| Computer                                    |   | 96.36            |       |                 |                 |           | -               |
| Brushcutter, power                          |   | 96,36            |       |                 |                 |           | -               |
| Chainsaw                                    |   | 64.24            |       |                 |                 |           | -               |
| EOD Demolition Kil                          |   | 51.39            |       |                 |                 |           | -               |
| Foester Ferrex Ordnance Locator             |   | 385.43           |       |                 |                 |           | -               |
| Schonstedt Magnetic Locator                 |   | 51.39            |       |                 |                 |           | •               |
| Explosive Storage magazine                  |   | 44.97            |       |                 |                 |           | -               |
| Carrier Phase GPS                           |   | 899.35           |       |                 |                 |           | •               |
| Surveyor's Kit                              |   | 64.24            |       |                 |                 |           | •               |
| Total Station Survey Equipment              |   | 835.11           |       |                 |                 |           | •               |
| Ford Explorer                               |   | 321.20           |       |                 |                 |           | 440.40          |
| Pickup, 4x4, 3/4 Ton                        |   | 449.67           |       | 1.00            | 0.25            |           | 112.42          |
| Air Fare - Round Trip                       |   | 1,220.54         |       |                 |                 |           | •               |
| Mileage                                     |   | 0.40             |       | 40.00           | 400             |           | 27.84           |
| Fuef  |   | 1.74             |       | 16.00<br>1.00   | 1.00            |           |                 |
| Lodging                                     |   | 68.09<br>38.55   |       | 1.00            | 200<br>200      |           | 136.18<br>77.10 |
| Meals and Incidentals                       |   |                  |       |                 | 1.00            |           | 192.72          |
| Project Consumables<br>Printing and Rinding |   | 192.72<br>205.56 |       | 1.00            | 1.00            |           | 18412           |
| Printing and Binding<br>Shipping            |   | 200.50<br>154.17 |       |                 | į               |           | •               |
| Site Trailer                                |   | 963.59           |       |                 |                 |           | •<br>-          |
| Site Trailler<br>Electrical Hook Up         |   | 1,927.17         |       |                 |                 |           | _               |
| Electrical Hook op<br>Magazine Fencing      | 71. A                                       | 889.35           |       |                 |                 |           | _               |
| Magazine Hencing<br>Magazine Mobilization   |   | 770.87           |       |                 |                 |           | -               |
| Magazine Modaczakon<br>Donor Explosives     |   | 1,541.74         |       |                 |                 |           | •               |
| Site Remediation - Pine Farm                |   | 300.00           |       |                 |                 |           | -               |
| Subtotal - Other Direct Costs               |   | 300.00           |       |                 |                 |           | 546.26          |
| COLCORI - CIRCI DROCI COSIS                 |   |                  |       |                 |                 |           | 040.20          |
| Total Estimated Costs                       |   |                  |       |                 |                 |           | 1,484.06        |
| i Orai Palilitatea Crasa                    |   |                  |       |                 |                 |           | ,,-000          |

Corps of Engineers Camp Croft, Spartenburg, S.C.

| Engineering Design Cost Est     | timate  |                          |                      |                 |                               |                          |          |
|---------------------------------|---------|--------------------------|----------------------|-----------------|-------------------------------|--------------------------|----------|
| Natural Brush/Forest Are        |         |                          |                      |                 | Task                          | -                        |          |
| Clearance of Compost Are        | ea - B  | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Quality C<br>Number<br>People | entrol  Estimated  Hours | Amount   |
| Program Management I            |         | 82.06                    |                      |                 |                               | •                        | •        |
| Project Manager III             |         | 76.92                    |                      |                 |                               | •                        | •        |
| Project Manager ()              |         | 66.67                    |                      |                 |                               | •                        | -        |
| Certified Industrial Hygienist  |         | 74.81                    |                      |                 |                               | •                        | •        |
| Engineer II                     |         | 76.92                    |                      |                 |                               | -                        | -        |
| Survey Manager                  |         | 56.42                    |                      |                 |                               | •                        | -        |
| Surveyor V                      |         | 46.16                    |                      |                 |                               | •                        | •        |
|                                 |         |                          |                      |                 |                               |                          | 1.777    |
| Quality Control Specialist      | Regular | 47.04                    | 40.00                | 0.75            | 1.00                          | 30.00                    | 1,411.20 |
| Site Safety Officer             | Regular | 47,04                    |                      |                 |                               | -                        | -        |
| UXO Supervisor/Tech VI          | Regular | 53.29                    |                      |                 |                               | •                        | -        |
| UXO Supervisor/Tech V           | Regular | 47.04                    |                      |                 |                               | •                        | •        |
| UXO Technician IV               | Regular | 40.49                    |                      |                 |                               | •                        | •        |
| UXO Technician III              | Regular | 34.10                    | 40.00                | 0.75            | 1.00                          | 30.00                    | 1,023.00 |
| Laborer II                      | Regular | 28.65                    |                      |                 |                               | -                        | •        |
| 3.1.4.1.1                       |         |                          |                      |                 |                               |                          |          |
| Subtotal - I                    | Labor   |                          |                      |                 |                               | 60.00                    | 2,434.20 |
| 14 M 14                         |         |                          |                      |                 |                               |                          |          |
|                                 |         | Loaded                   |                      | Number          | Number                        |                          |          |
| Other Direct Costs              |         | Rate                     |                      | Weeks           | Units                         |                          | Amount   |
| FM Radio, Handheld w/ charger   |         | 25.69                    |                      | 0.75            | 1.00                          |                          | 19.27    |
| FM Radio Repeater/Base Station  |         | 44.97                    |                      |                 |                               |                          | •        |
| Cellular Telephone and Service  |         | 64.24                    |                      |                 |                               |                          | •        |
| Video Camera                    |         | 32.12                    |                      |                 |                               |                          | •        |
| Computer                        | ŀ       | 96.36                    |                      |                 |                               |                          | -        |
| Brushcutter, power              |         | 96.36                    |                      |                 |                               |                          | -        |
| Chainsaw                        |         | 64.24                    |                      |                 |                               |                          | -        |
| EOD Demolition Kill             |         | 51.39                    |                      |                 |                               |                          | -        |
| Foester Ferrex Ordnance Locator |         | 385.43                   |                      |                 | 1                             |                          | •        |
| Schonstedi Magnetic Locator     |         | 51,39                    |                      | 0,75            | 2.00                          |                          | 77.09    |
| Explosive Storage magazine      |         | 44,97                    |                      |                 |                               |                          | -        |
| Carrier Phase GPS               |         | 899.35                   |                      |                 |                               |                          | -        |
| Surveyor's Kit                  |         | 64.24                    |                      |                 | 1                             |                          | -        |
| Total Station Survey Equipment  |         | 835.11                   |                      | == د            |                               |                          |          |
| Ford Explorer                   |         | 321.20                   |                      | 1.00            | 1.00                          |                          | 321.20   |
| Pickup, 4x4, 3/4 Ton            |         | 449.67                   |                      |                 |                               |                          |          |
| Air Fare - Round Trip           |         | 1,220.54                 |                      | 1.00            | 200                           |                          | 2,441.08 |
| Mileage                         |         | 0.40                     |                      | 50.00           | 2.00                          |                          | 40.00    |
| Fuel                            |         | 1.74                     |                      | 35.00           | 2.00                          |                          | 121.80   |

Subtotal - Other Direct Costs **Total Estimated Costs** 

Lodging

Shipping Site Trailer Electrical Hook Up

Meals and Incidentals

**Project Consumables** 

Printing and Binding

Magazine Fencing

**Donor Explosives** 

Magazine Mobilization

Site Remediation - Pine Farm

4,066.28

544.72

308,40

192.72

68.09

38.55

192.72

205.56 154.17 963.59

1,927.17

899.35

770.87

1,541.74

300.00

4.00

4.00

1.00

2.00

2.00

1.00

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural BrustyForest Area - A
Clearance of Compost Area - B

**Total Estimated Costs** 

Task 9 Final Report

| Clearance of Compost Are                                  | sa - B  | Final Report             |                      |  |                  |                    |             |  |  |
|---|---------|--------------------------|----------------------|--|------------------|--------------------|-------------|--|--|
| Labor Category  |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks                        | Number<br>People | Estimated<br>Hours | Amount      |  |  |
| Program Management I                                      |         | 82.06                    | 42.00                | 0.25                                   | 1.00             | 10.50              | 961,63      |  |  |
| Project Manager III                                       |         | 76.92                    |                      |  |                  | •                  | -           |  |  |
| Project Manager II  |         | 86.67                    | 42.00                | 2.00                                   | 1.00             | 84,00              | 5,600.28    |  |  |
| Certified Industrial Hygienist                            |         | 74.81                    |                      |  |                  | -                  | -           |  |  |
| Engineer II   |         | 76.92                    | 42.00                | 0.75                                   | 1.00             | 31.50              | 2,422,98    |  |  |
| Survey Manager  |         | 56.42                    | 42.00                | 1.00                                   | 1.00             | 42.00              | 2,369.64    |  |  |
| Surveyor V  |         | 46.16                    |                      |  |                  | -                  |             |  |  |
| :   |         |                          |                      |  |                  |                    |             |  |  |
| Quality Control Specialist                                | Regular | 47.04                    |                      |  |                  | -                  | •           |  |  |
| Site Safety Officer                                       | Regular | 47.04                    |                      |  |                  | -                  | •           |  |  |
| UXO Supervisor/Tech VI                                    | Regular | 53.29                    |                      |  |                  | -                  | -           |  |  |
| UXO Supervisor/Tech V                                     | Regular | 47.04                    |                      |  |                  | -                  | -           |  |  |
| UXO Technician IV   | Regular | 40.49                    |                      |  |                  | -                  | •           |  |  |
| UXO Technician III  | Regutar | 34.10                    |                      |  |                  | -                  | •           |  |  |
| Laborer II  | Regular | 28.65                    |                      |  |                  | -                  |             |  |  |
| Subtotal - L  |         |                          |                      |  |                  | 168.00             | 11,254.53   |  |  |
| Subidial - L  | auor    |                          |                      |  |                  | 108.00             | 11,204.03   |  |  |
|   |         | Loaded                   |                      | Monthead                               | Number           |                    |             |  |  |
| Other Direct Costs  |         | Rate                     |                      | Number<br>Weeks                        | Units            |                    | Amount      |  |  |
| FM Radio, Handheld w/ charger                             |         | 25.69                    |                      |  |                  |                    | <del></del> |  |  |
| FM Radio Repeater/Base Station                            |         | 44,97                    |                      |  |                  |                    |             |  |  |
| Cellular Telephone and Service                            | ar ayaa | 64.24                    |                      |  |                  |                    |             |  |  |
| Video Camera  |         | 32.12                    |                      |  |                  |                    | _           |  |  |
| Computer  |         | 96.36                    |                      |  |                  |                    | _           |  |  |
| Brushcutter, power  |         | 96.36                    |                      |  |                  |                    | _           |  |  |
| Chainsaw  |         | 64.24                    |                      |  |                  |                    | _           |  |  |
| EOD Demolition Kit  |         | 51.39                    |                      |  |                  |                    | _           |  |  |
| Foester Ferrex Ordnance Locator                           |         | 385,43                   |                      |  |                  |                    |             |  |  |
| Schonstedt Magnetic Locator                               |         | 51.39                    |                      |  |                  |                    |             |  |  |
| Explosive Storage magazine                                |         | 44.97                    |                      |  |                  |                    | -           |  |  |
| Carrier Phase GPS   |         | 899.35                   |                      |  |                  |                    |             |  |  |
| Surveyor's Kit  |         | 84.24                    |                      |  | i                |                    |             |  |  |
| Total Station Survey Equipment                            |         | 835.11                   |                      |  |                  |                    | •           |  |  |
| Ford Explorer   |         | 321.20                   |                      |  |                  |                    | •           |  |  |
| Pickup, 4x4, 3/4 Ton                                      | :       | 449.67                   |                      |  |                  |                    |             |  |  |
| Alt Fare - Round Trip                                     |         | 1,220.54                 |                      |  |                  |                    |             |  |  |
| Mileage   |         | 0.40                     |                      |  |                  |                    |             |  |  |
| Fuel  |         | 1.74                     |                      |  |                  |                    | _           |  |  |
| Lodging   |         | 68.09                    |                      |  |                  |                    |             |  |  |
| Meals and Incidentals                                     |         | 38.55                    |                      |  |                  |                    |             |  |  |
| Project Consumables                                       |         | 192.72                   |                      |  |                  |                    | -           |  |  |
| Printing and Binding                                      |         | 205.56                   |                      | 1.00                                   | 2.00             |                    | 411.12      |  |  |
| Shipping  |         | 154.17                   |                      |  |                  |                    | •           |  |  |
| Site Trailer  |         | 983.59                   |                      |  |                  |                    | -           |  |  |
| Electrical Hook Up  |         | 1,927.17                 |                      |  |                  |                    | -           |  |  |
| Magazine Fencing  |         | 899.35                   |                      |  |                  |                    | •           |  |  |
| Magazine Mobilization                                     |         | 770.87                   |                      |  |                  |                    | -           |  |  |
| Donor Explosives  |         | 1,541.74                 |                      |  |                  |                    | -           |  |  |
| Site Remediation - Pine Ferm<br>Subtotal - Other Direct C | nete    | 300.00                   |                      | ······································ |                  |                    | #14.40      |  |  |
| SUBSURAL COMEN DIRECT C                                   | uaca    |                          |                      |  |                  |                    | 411.12      |  |  |

11,665.65

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Cost Estimate
Natural Brush/Forest Area - A
Clearance of Compost Area - B

Task 10 Site Restoration

| Labor Category                    | Loeded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks                         | Number<br>People | Estimated<br>Hours | Amount |
|-----------------------------------|--------------------------|----------------------|---|------------------|--------------------|--------|
| Program Management I              | 82.06                    |                      |   |                  | -                  | -      |
| Project Manager III               | 76.92                    |                      |   |                  | -                  | -      |
| Project Manager II                | 66.67                    |                      |   |                  | •                  | -      |
| Certified Industrial Hygienist    | 74.81                    |                      |   |                  | -                  | -      |
| Engin <del>ee</del> r II          | 76.92                    |                      |   |                  | •                  |        |
| Survey Manager                    | 56.42                    |                      |   |                  |                    | -      |
| Surveyor V                        | 46.16                    |                      |   |                  | -                  | -      |
|                                   |                          |                      | *************************************** |                  |                    |        |
| Quality Control Specialist Regula | ar 47.04                 |                      |   |                  |                    | -      |
| Site Safety Officer Regula        | ar 47.04                 |                      |   |                  | •                  |        |
| UXO Supervisor/Tech VI Regula     | er 53.29                 |                      |   |                  | -                  | _      |
| UXO Supervisor/Tech V Regula      | er 47.04                 |                      |   |                  |                    |        |
| UXO Technician IV Regula          | er 40.49                 |                      |   |                  | -                  | -      |
| UXO Technician III Regula         |                          |                      |   |                  | -                  |        |
| Laborer II Regula                 |                          |                      |   |                  | -                  |        |
|                                   |                          |                      |   |                  | -                  |        |

Subtotal - Labor

|                                |          | Loaded   | Number    | Number |   |        |
|--------------------------------|----------|----------|-----------|--------|---|--------|
| Other Direct Costs             |          | Rate     | <br>Weeks | Units  | _ | Amount |
| M Radio, Handheld w/ charger   |          | 25.69    |           |        |   | -      |
| M Radio Repeater/Base Station  |          | 44.97    |           |        |   | •      |
| Cellular Telephone and Service |          | 64.24    |           |        |   | -      |
| /ideo Camera                   |          | 32.12    |           |        |   |        |
| Computer                       |          | 96.36    |           |        |   |        |
| Brushcutter, power             |          | 96.36    |           |        |   |        |
| Chainsaw                       |          | 64.24    |           |        |   |        |
| OD Demolition Kit              |          | 51.39    |           |        |   |        |
| oester Ferrex Ordnance Locator |          | 385.43   |           |        |   |        |
| chonstedt Magnetic Locator     |          | 51.39    |           |        |   |        |
| xplosive Storage magazine      |          | 44.97    |           |        |   | -      |
| arrier Phase GPS               |          | 899.35   |           |        |   | _      |
| urveyor's Kit                  |          | 64.24    |           |        |   |        |
| otal Station Survey Equipment  |          | 835,11   |           |        |   | _      |
| ord Explorer                   |          | 321.20   |           |        |   | -      |
| ickup, 4x4, 3/4 Ton            |          | 449.67   |           |        |   | _      |
| Ir Fare - Round Trip           |          | 1,220.54 |           |        |   |        |
| fileage                        |          | 0.40     |           |        |   | _      |
| uel                            |          | 1.74     |           |        |   |        |
| odging                         |          | 68.09    |           | - 1    |   |        |
| leals and incidentals          |          | 38.55    |           |        |   |        |
| roject Consumables             |          | 192.72   |           |        |   |        |
| rinting and Binding            |          | 205.56   |           |        |   |        |
| hipping                        | Marie et | 154,17   |           |        |   |        |
| ite Trailer                    |          | 963.59   |           |        |   | _      |
| lectrical Hook Up              |          | 1.927.17 |           |        |   |        |
| agazine Fencing                |          | 899.35   |           |        |   |        |
| agazine Mobilization           |          | 770.87   |           | 1      |   |        |
| onor Explosives                |          | 1,541,74 |           |        |   | Ī.     |
| ite Remediation - Pine Farm    |          | 300.00   | 1.00      | 1.00   |   | 300,00 |
| Subtotal - Other Direct Costs  |          |          | <br>7,77  | 1.00   |   | 300.00 |
|                                |          |          |           |        |   | 555.60 |
| Total Estimated Costs          |          |          |           |        |   | 300.00 |

# Natural Brush/Forests - A

# Alternative 3 - Surface Clearance of OE

Alternative 3 requires a complete OE surface clearance of 169.05 acres. Electronic detection instruments are necessary to detect OE hidden from view by high grasses and terrain. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Brush clearing efforts are less intensive than brush clearance for subsurface clearance; therefore, the production effort is established at 5 grids per day per team. It is assumed that 80% of the total grids will require moderate brush clearance efforts. During the Engineering Design effort 8.61 acres were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for the effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. Given the crratic terrain and vegetation at Camp Croft, this estimate was held to 14 grids per day. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance

Search Grid Size: 100' X 100'

169.05 acres/736 (100' X100') search grids

8.61 acres

160.44 acres

698 grids

588 grids/135.17 acres

.22 acres per grid

### Production Rates:

Brush Clearance Land Survey

Surface Clearance

5 grids per day per four man team (four teams @ 20 grids per day) 14 grids per day per two person team (three teams @ 42 grids per day) 8.71 grids per day (2 acres) per 5 person team (4 teams@ 34.84 grids

per workday)

### Duration:

Project Management

Land Survey

Brush Clearance

42 working days/10.5 weeks

20 working days/5 weeks (three teams)

30 working days/7.5 weeks -- 5 grids per work day per four-person

team (four teams @ 20 grids per workday)

Surface Clearance

Disposal

Quality Control **Total Duration** 

21 working days/5.25 weeks (four five-person teams) Effort included in Surface Clearance

21 working days/5.25 weeks (2 person team)

42 Working Days/10.5 weeks

# Surface Clearance of OE - Alternative 3

|                                |         | Summery                  |                      |                 |                  |                    |            |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|------------|--|
| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount     |  |
| Program Management I           |         | 82.06                    |                      |                 |                  | 39.90              | 3,274,19   |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  | 441.00             | 33,921,72  |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | 201.60             | 13,440.67  |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | 16.00              | 1,196.96   |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  | 63.00              | 4,845.96   |  |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | 180,60             | 10,189.45  |  |
| Surveyor V                     |         | 48.16                    |                      |                 |                  | 630.00             | 29,080,80  |  |
|                                |         |                          |                      |                 |                  |                    |            |  |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | 210.00             | 9,878.40   |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | 420.00             | 19,758.80  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | 512.00             | 27,284,48  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | 840.00             | 39,513.60  |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | 4,580.00           | 185,444,20 |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | 810.00             | 27.621.00  |  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | 7,200.00           | 206,280.00 |  |
|                                |         |                          |                      |                 |                  | _                  | -          |  |
| Subtotal - L                   | abor    |                          |                      |                 |                  | 16,144.10          | 611,728.23 |  |

| -                                       | Loaded   | Number Nu | mber         |
|---|----------|-----------|--------------|
| Other Direct Costs                      | Rate     | Weeks U   | Inits Amount |
| FM Radio, Handheld w/ charger           | 25.69    |           | 2,215.76     |
| FM Radio Repeater/Base Station          | 44.97    |           | 1,888.74     |
| Cellular Telephone and Service          | 64.24    |           | 725.91       |
| Video Camera                            | 32.12    |           | 362.96       |
| Computer                                | 96.36    |           | 2,553.54     |
| Brushcutter, power                      | 96.36    |           | 5,781.60     |
| Chainsaw                                | 64.24    |           | 3,854.40     |
| EOD Demolition Kit                      | 51.39    |           | 269.80       |
| Foester Ferrex Ordnance Locator         | 385.43   |           | 308.34       |
| Schonstedt Magnetic Locator             | 51.39    |           | 8,248,10     |
| Explosive Storage magazine              | 44.97    |           | 1,416,56     |
| Carrier Phase GPS                       | 899,35   |           | 3,597.40     |
| Surveyor's Kit                          | 64.24    |           | 963.60       |
| Total Station Survey Equipment          | 835.11   |           | 12,526.65    |
| Ford Explorer                           | 321.20   |           | 7.339.42     |
| Pickup, 4x4, 3/4 Ton                    | 449.67   |           | 23.045.59    |
| Air Fare - Round Trip                   | 1,220,54 |           | 17.087.56    |
| Mileage                                 | 0.40     |           | 1,100.00     |
| Fuel                                    | 1.74     |           | 6,457.58     |
| Lodging                                 | 68.09    |           | 142.648.56   |
| Meais and Incidentals                   | 38.55    |           | 81,880,20    |
| Project Consumables                     | 192.72   |           | 8,335.14     |
| Printing and Binding                    | 205.56   |           | 1,644,48     |
| Shipping                                | 154.17   |           | 925.02       |
| Site Trailer                            | 963.59   |           | 2,534.24     |
| Electrical Hook Up                      | 1,927.17 |           | 1,927.17     |
| Magazine Fencing                        | 899.35   |           | 899.35       |
| Magazine Mobilization                   | 770.87   |           | 770,87       |
| Donor Explosives                        | 1,541.74 |           | 1,927.18     |
| Site Remediation                        | 500.00   |           | 500.00       |
| Subtotal - Other Direct Costs           |          |           | 343,735.72   |
|   |          |           | 040,100.74   |
| Total Estimated Costs                   |          |           | 955,463,95   |
| Say Say Say Say Say Say Say Say Say Say |          |           |              |

Tush 1 Site Visit

|  |         |                  |       |        | Site   | Vieit     |             |
|--|---------|------------------|-------|--------|--------|-----------|-------------|
|  |         | Londed           | Hours |        |        |           |             |
|  |         | Hourly           | per   | Number | Number | Estimated |             |
| Labor Category   |         | Rate             | Week  | Weeks  | People | Haurs     | Amount      |
| Program Management I   |         | 82.06            | 42.00 | 0.20   | 1.00   | 8.40      | 689.30      |
| Project Manager III  |         | 76.92            | 42.00 | 0.40   | 1.00   |           | -           |
| Project Manager II   |         | 66.67            | 42.00 | 0.80   | 1.00   | 33,60     | 2,240.11    |
| Certified Industrial Hygienist   |         | 74.81            | 12.00 | 0.00   | 1,00   | -         | 2,240.17    |
| Engineer II  |         | 76.92            |       |        |        | _         | _           |
| Survey Manager   |         | 56.42            |       |        |        | _         | _           |
| Surveyor V   |         | 46.16            |       |        |        | _         | -           |
|  |         | 75.116           |       |        |        |           | _           |
| Quality Control Specialist   | Regular | 47.04            |       |        |        | -         |             |
| Site Safety Officer  | Regular | 47.04            |       |        |        |           |             |
| UXO Supervisor/Tech VI   | Regular | 53.29            | 40.00 | 0.80   | 1.00   | 32.00     | 1,705.28    |
| UXO Supervisor/Tech V  | Regular | 47,04            | 75.00 | 0.00   | 1.00   | 32.00     | 1,703.20    |
| UXO Technician IV  | Regular | 40.49            |       |        |        | -         | •           |
| UXO Technician III   | Regular | 34.10            |       |        |        | -         | •           |
| Laborer II   | Regular | 28.65            |       |        |        | -         | -           |
|  | regual  |                  |       |        |        | -         | -           |
| Subtotal - Labor   |         |                  |       |        |        | 74.00     | 4 8 3 4 8 0 |
| O40(014) - L40(1   |         |                  |       |        |        | 74.00     | 4,634.69    |
|  |         |                  |       |        |        |           |             |
|  |         | Loaded           |       | Number | Number |           |             |
| Other Direct Costs   |         | Rate             |       | Weeks  | Units  |           | Amount      |
| FM Radio, Handheld w/ charger  |         |                  |       | 440679 | UIRIA  |           | Amount      |
| FM Radio Repeater/Base Station   |         | 25.69            |       |        |        |           | -           |
| Cellular Telephone and Service   |         | 44.97            |       |        |        |           |             |
| Video Camera   |         | 64.24            |       | 0.80   | 1.00   |           | 51.39       |
| Computer   |         | 32.12            |       | 0.80   | 1.00   |           | 25.70       |
| Brushcutter, power   |         | 96.36            |       |        |        |           | -           |
| Chainsaw   |         | 96.36            |       |        |        |           | •           |
| EOD Demolition Kit   |         | 64.24            |       |        |        |           | -           |
| Foester Ferrex Ordnance Locator  |         | 51.39            |       |        |        |           | -           |
| Schonstedt Magnetic Locator  |         | 385.43           |       | 0.80   | 1.00   |           | 308.34      |
| Explosive Storage magazine   |         | 51,39            |       |        |        |           | -           |
| Carrier Phase GPS  |         | 44.97            |       |        |        |           | -           |
| Surveyor's Kit   |         | 899.35           |       |        |        |           | -           |
| Total Station Survey Equipment   |         | 64.24            |       |        |        |           | -           |
| Ford Explorer  |         | 835.11           |       |        |        |           |             |
| Pickup, 4x4, 3/4 Ton   |         | 321.20<br>449,67 |       | 2.00   | 0.80   |           | 513.92      |
| Air Fare - Round Trip  |         |                  |       | 4.00   |        |           |             |
| Mileage  | :       | 1,220.54<br>0.40 |       | 1.00   | 2.00   |           | 2,441.08    |
| Fuel   |         |                  |       | 50.00  | 2.00   |           | 40.00       |
| Lodging  |         | 1.74<br>68.09    |       | 5.00   | 8.00   |           | 69.60       |
| Meals and Incidentals  |         |                  |       | 4.00   | 2.00   |           | 544.72      |
| Project Consumables  |         | 38,55<br>192,72  |       | 5.00   | 2.00   | :         | 385.50      |
| Printing and Binding   |         | 205.56           |       | 1.00   | 1.00   |           | 192.72      |
| Shipping   |         | 154.17           |       |        |        |           | -           |
| Site Trailer   |         | 963.59           |       |        |        |           | -           |
| Electrical Hook Up   |         | 1,927.17         |       |        |        |           | +           |
| Magazine Fencing   |         | 899.35           |       |        |        |           | •           |
| Magazine Mobilization  |         | 770,87           |       |        |        |           | -           |
| Donor Explosives   |         | 1,541.74         |       |        |        |           | -           |
| Site Remediation   |         | 500.00           |       |        |        |           | -           |
| Subtotal - Other Direct Costs  |         | 440.00           |       |        |        |           | 4 574 44    |
| Vine. Dileot Obate   |         |                  |       |        |        |           | 4,572.97    |
| Total Estimated Costs  |         |                  |       |        |        |           | 0.202.00    |
| Total Date of the Control of the Con |         |                  |       |        |        | ···       | 9,207.66    |

Task 2 Work Plan

|                                |         |                          |                      | 77              | Work Plan        |                    |           |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|--|
| Labor Cutegory                 |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |  |
| Program Management I           |         | 82.06                    | 42.00                | 0.50            | 1,00             | 21.00              | 1,723.26  |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  |                    |           |  |
| Project Manager II             |         | 66.67                    | 42.00                | 2.00            | 1.00             | 84.00              | 5,600,28  |  |
| Certified Industrial Hygienist |         | 74.81                    | 40.00                | 0.40            | 1.00             | 16,00              | 1,196.96  |  |
| Engineer II                    |         | 76.92                    | 42.00                | 0.50            | 1.00             | 21.00              | 1,615.32  |  |
| Survey Manager                 |         | 56.42                    | 42.00                | 0.80            | 1,00             | 33.60              | 1,895.71  |  |
| Surveyor V                     |         | 46.16                    |                      |                 |                  |                    | .,        |  |
|                                |         |                          |                      |                 |                  |                    |           |  |
| Quality Control Specialist     | Regular | 47.04                    |                      | "               |                  |                    | -         |  |
| Site Safety Officer            | Regular | 47,04                    |                      |                 |                  | _                  | _         |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    | 40.00                | 1.00            | 1.00             | 40.00              | 2,131.60  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | -                  | 2,101.00  |  |
| UXO Technician IV              | Regular | 40,49                    |                      |                 |                  | _                  | _         |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  |                    |           |  |
| Laborer II                     | Regular | 26.65                    |                      |                 |                  | -                  |           |  |
|                                |         |                          |                      |                 |                  | _                  | _         |  |
| Subtotal - L                   | abor    |                          |                      |                 |                  | 215.60             | 14,163.13 |  |

| ubtotal - | Lebori | 045.00 |           |
|-----------|--------|--------|-----------|
|           |        | 215.60 | 14,163,13 |
|           |        |        |           |

| Other Direct Costs   | Loaded   | Number | _     |           |
|--|----------|--------|-------|-----------|
| <del></del>  | Rate     | Weeks  | Units | Amount    |
| FM Radio, Handheld w/ charger  | 25.69    |        |       | -         |
| FM Radio Repeater/Base Station   | 44.97    |        |       | •         |
| Cellular Telephone and Service   | 64.24    |        |       | -         |
| Video Camera   | 32.12    |        |       | -         |
| Computer   | 96.36    | 1.00   | 1.00  | 96.30     |
| Brushcutter, power   | 98.36    |        |       | •         |
| Chainsaw   | 64.24    |        |       | -         |
| EOD Demolition Kit   | 51.39    |        |       | •         |
| Foester Ferrex Ordnance Locator  | 385.43   |        |       | -         |
| Schonstedt Magnetic Locator  | 51.39    |        |       | •         |
| Explosive Storage magazine   | 44.97    |        |       | •         |
| Carrier Phase GPS  | 899.35   |        |       | -         |
| Surveyor's Kit   | 64.24    |        |       | •         |
| Total Station Survey Equipment   | 835.11   |        |       | -         |
| Ford Explorer  | 321.20   | 1.00   | 1.00  | 321,20    |
| Pickup, 4x4, 3/4 Ton   | 449.67   |        |       | -         |
| Air Fare - Round Trip  | 1,220.54 | 1.00   | 1.00  | 1,220.54  |
| Mileage  | 0.40     | 50.00  | 1.00  | 20.00     |
| Fuel   | 1.74     | 1.00   | 40.00 | 69.60     |
| odging   | 68.09    | 6.00   | 1.00  | 408.54    |
| Meals and Incidentals  | 38.55    | 7.00   | 1.00  | 269.85    |
| Project Consumables  | 192.72   | 8.00   | 1.00  | 1,541.76  |
| Printing and Binding   | 205.56   | 1.00   | 2.00  | 411.12    |
| Shipping   | 154.17   |        |       | -         |
| Site Trailer   | 963.59   |        |       | -         |
| Electrical Hook Up   | 1,927.17 |        |       | •         |
| Asgazine Fencing   | 899.35   |        |       | -         |
| fagazine Mobilization  | 770.87   |        |       | -         |
| Donor Explosives   | 1,541.74 |        |       | -         |
| ite Remediation  | 500.00   |        |       |           |
| Subtotal - Other Direct Costs  |          |        |       | 4,358.97  |
| Total Estimated Costs  |          |        |       | 18,522.10 |
| The state of the s |          |        |       |           |

| Natural Brush/Forests-         | A       |                          |                      | Task 3          |                  |                    |            |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|------------|--|
|                                |         |                          |                      |                 | 5                | Site Manageme      | <b>m</b> t |  |
| Labor Category                 |         | Loaded<br>Hourly<br>Rate | Haura<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amoust     |  |
| Program Management I           |         | 82.06                    |                      |                 |                  | -                  |            |  |
| Project Manager III            |         | 76.92                    | 42.00                | 10.50           | 1.00             | 441.00             | 33,921,72  |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  |            |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  |                    | -          |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  | -                  | -          |  |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | -                  | -          |  |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | -                  | -          |  |
|                                |         |                          |                      |                 |                  |                    |            |  |
| Quality Control Specialist     | Regular | 47.04                    |                      | · <u>-</u>      | •                | -                  |            |  |
| Site Safety Officer            | Regular | 47.04                    | 40.00                | 10.50           | 1.00             | 420.00             | 19,756.80  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    | 40.00                | 10.50           | 1.00             | 420.00             | 22,381.60  |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | -                  | · <u>-</u> |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | -                  | •          |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | -                  | _          |  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | _                  | -          |  |
|                                |         |                          |                      |                 |                  |                    | _          |  |
| Subtotal - Lab                 | or      |                          |                      |                 |                  | 1,281.00           | 76,060.32  |  |
|                                |         |                          |                      |                 |                  |                    |            |  |
|                                |         | Loaded                   |                      | Number          | Number           |                    |            |  |
| Other Direct Costs             |         | Rate                     |                      | Weeks           | Units            |                    | Amount     |  |
| FM Radio, Handheld w/ charger  |         | 25.69                    |                      |                 |                  |                    |            |  |
| FM Radio Repeater/Base Station |         | 44.97                    |                      | 10.50           | 4.00             |                    | 1,888,74   |  |
| Cellular Telephone and Service |         | 64.24                    |                      | 10.50           | 1.00             |                    | 674.52     |  |
| Video Camera                   |         | 22.42                    |                      | 40.50           | 4.00             |                    | 31 1.54    |  |

|                                 | Loaded   | Number   | Number |            |
|---------------------------------|----------|----------|--------|------------|
| Other Direct Costs              | Rate     | Weeks    | Units  | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    |          |        |            |
| FM Radio Repeater/Base Station  | 44.97    | 10.50    | 4.00   | 1,888,74   |
| Cellular Telephone and Service  | 64.24    | 10.50    | 1.00   | 674.52     |
| Video Camera                    | 32.12    | 10.50    | 1.00   | 337,26     |
| Computer                        | 96.36    | 10.50    | 1,00   | 1.011.78   |
| Brushcutter, power              | 96.36    |          |        | ,          |
| Chainsaw                        | 64.24    |          |        | _          |
| EOD Demolition Kit              | 51,39    |          |        |            |
| Foester Ferrex Ordnance Locator | 385.43   |          |        | _          |
| Schonstedt Magnetic Locator     | 51,39    |          |        |            |
| Explosive Storage magazine      | 44.97    | 10.50    | 3.00   | 1,416,56   |
| Carrier Phase GPS               | 899.35   | 12,00    |        | (,410.00   |
| Surveyor's Kit                  | 64,24    |          |        |            |
| Total Station Survey Equipment  | 835.11   |          |        |            |
| Ford Explorer                   | 321,20   |          |        |            |
| Pickup, 4x4, 3/4 Ton            | 449.67   |          |        |            |
| Air Fare - Round Trip           | 1,220,54 | 1.00     | 3.00   | 3,661,62   |
| Mileage                         | 0.40     | 2,000.00 | 1.00   | 800.00     |
| Fuel                            | 1.74     | 105.00   | 10.50  | 1,918,35   |
| Lodging                         | 68.09    | 21.00    | 10.50  | 15,013,85  |
| Meals and Incidentals           | 38.55    | 22,00    | 10.50  | 8,905.05   |
| Project Consumables             | 192.72   | 10.50    | 1.00   | 2,023.56   |
| Printing and Binding            | 205.56   | 2.00     | 1.00   | 411.12     |
| Shipping                        | 154.17   | 1,00     | 3.00   | 462.51     |
| Site Traiter                    | 963.59   | 2.63     | 1.00   | 2.534.24   |
| Electrical Hook Up              | 1,927.17 | 1.00     | 1.00   | 1,927.17   |
| Magazine Fencing                | 899.35   | 1,00     | 1.00   | 899.35     |
| Magazine Mobilization           | 770.87   | 1,00     | 1.00   | 770.87     |
| Donor Explosives                | 1,541,74 | *****    | ,,,,,  | 775.01     |
| Site Remediation                | 500.00   |          |        |            |
| Subtotal - Other Direct Costs   |          |          |        | 44,656,55  |
|                                 |          |          |        | 77,000,00  |
| Total Estimated Costs           |          |          |        | 120,716.87 |
|                                 |          |          |        | :20,710.07 |

Task 4

|   |         |                          |                      |                 |                  | Land Survey        |           |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
| Labor Category                          |         | Landed<br>Hourly<br>Rate | Heure<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt    |
| Program Management I                    |         | 82.06                    |                      |                 |                  | -                  | -         |
| Project Manager III                     |         | 76.92                    |                      |                 |                  | -                  |           |
| Project Manager II                      |         | 66.67                    |                      |                 |                  | -                  | -         |
| Certified Industrial Hygienist          |         | 74.81                    |                      |                 |                  | •                  | •         |
| Engineer II                             |         | 76.92                    |                      |                 |                  | -                  | -         |
| Survey Manager                          |         | 56.42                    | 42.00                | 1.50            | 1.00             | 63.00              | 3,554.46  |
| Surveyor V                              |         | 46.16                    | 42.00                | 5.00            | 3.00             | 630.00             | 29,080.80 |
|   |         |                          |                      |                 |                  |                    |           |
| Quality Control Specialist              | Regular | 47.04                    |                      |                 |                  |                    | -         |
| Site Safety Officer                     | Regular | 47.04                    |                      |                 |                  | -                  | -         |
| UXO Supervisor/Tech VI                  | Regular | 53.29                    |                      |                 |                  | -                  | -         |
| UXO Supervisor/Tech V                   | Regular | 47.04                    |                      |                 |                  | -                  | -         |
| UXO Technician IV                       | Regutar | 40.49                    |                      |                 |                  | -                  | -         |
| UXO Technician III                      | Regular | 34.10                    | 40.00                | 5.00            | 3.00             | 600.00             | 20,460.00 |
| Laborer II                              | Regular | 28.65                    |                      |                 |                  | -                  | -         |
|   |         |                          |                      |                 |                  | -                  | _         |
| Subtotal - Labo                         | ) r =   |                          |                      |                 |                  | 1,293.00           | 53,095.26 |
| *************************************** |         |                          |                      |                 |                  |                    |           |

| Other Direct Costs              | Loaded   | Number | Number |            |
|---------------------------------|----------|--------|--------|------------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount     |
| FM Radio, Handheld w/ charger   | 25.69    | 5.00   | 6.00   | 770.70     |
| FM Radio Repeater/Base Station  | 44.97    |        |        | -          |
| Celiular Telephone and Service  | 64.24    |        |        | -          |
| Video Camera                    | 32.12    |        |        | -          |
| Computer                        | 96.36    | 5.00   | 3.00   | 1,445.40   |
| Brushcutter, power              | 96.36    |        |        | -          |
| Chainşaw                        | 64.24    |        |        | -          |
| EOD Demolition Kit              | 51.39    |        |        | •          |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | -          |
| Schonstedt Magnetic Locator     | 51.39    | 5.00   | 3.00   | 770.85     |
| Explosive Storage magazine      | 44.97    |        |        |            |
| Carrier Phase GPS               | 899.35   | 2.00   | 2.00   | 3,597.40   |
| Surveyor's Kit                  | 64.24    | 5.00   | 3.00   | 963.60     |
| Total Station Survey Equipment  | 835.11   | 5,00   | 3.00   | 12,526.65  |
| Ford Explorer                   | 321.20   | 5.00   | 3.00   | 4,818.00   |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | ·          |
| Air Fare - Round Trip           | 1,220.54 | 1.00   | 6.00   | 7,323.24   |
| Mileage                         | 0.40     | 50.00  | 6.00   | 120.00     |
| Fuel                            | 1.74     | 96.00  | 5.00   | 835.20     |
| _odging                         | 68.09    | 42.00  | 5.00   | 14,298.90  |
| Meals and Incidentals           | 38.55    | 43.00  | 5.00   | 8,288.25   |
| Project Consumables             | 192.72   | 5.00   | 2.00   | 1,927.20   |
| Printing and Binding            | 205.56   | 1.00   | 2.00   | 411.12     |
| Shipping                        | 154.17   | 3.00   | 1.00   | 462.51     |
| Site Trailer                    | 963.59   |        |        |            |
| Electrical Hook Up              | 1,927.17 |        |        | _          |
| Magazine Fencing                | 899.35   |        |        |            |
| fagazine Mobilization           | 770.87   |        |        |            |
| Ponor Explosives                | 1,541.74 |        |        | •          |
| Site Remediation                | 500.00   |        |        | -          |
| Subtotal - Other Direct Costs   |          |        | •      | 58,559.02  |
| Total Estimated Costs           |          |        |        | 111,654.28 |

Task 5 Brush Clearance

|  | Loaded Hours      |                       | DPE   | ING CHAPAREE |        |           |            |
|--|-------------------|-----------------------|-------|--------------|--------|-----------|------------|
|  |                   | Hourly                | per   | Number       | Number | Estimated |            |
| Labor Category                         |                   | Rate                  | Week  | Weeks        | People | Hours     | Amount     |
| Program Management I                   |                   | 82.06                 | '     |              |        | -         |            |
| Project Manager III                    |                   | 76.92                 |       |              |        | _         | _          |
| Project Manager II                     |                   | 66.67                 |       |              |        | -         | -          |
| Certified Industrial Hygienist         |                   | 74.81                 |       |              |        | -         | _          |
| Engineer II                            |                   | 76.92                 |       |              |        | -         | •          |
| Survey Manager                         |                   | 56.42                 |       |              |        | -         | _          |
| Surveyor V                             |                   | 46.16                 |       |              |        | -         | -          |
|  |                   |                       |       |              |        |           |            |
| Quality Control Specialist             | Regular           | 47.04                 |       |              |        | -         | •          |
| Site Safety Officer                    | Regular           | 47.04                 |       |              |        | •         | -          |
| UXO Supervisor/Tech VI                 | Regular           | 53.29                 |       |              |        | -         | -          |
| UXO Supervisor/Tech V                  | Regular           | 47.04                 |       |              |        | •         | -          |
| UXO Technician IV                      | Regular           | 40.49                 | 40.00 | 7.50         | 4.00   | 1,200.00  | 48,588.00  |
| UXO Technician III                     | Regular           | 34.10                 |       |              |        | -         | •          |
| Laborer II                             | Regular           | 28.65                 | 40.00 | 7.50         | 24.00  | 7,200.00  | 206,280.00 |
| Subtotal - Lab                         | O.F.              |                       |       |              |        |           |            |
| Subtituel - Lapi                       | 01                |                       |       |              |        | 8,400.00  | 254,868.00 |
|  |                   |                       |       |              |        |           |            |
|  |                   | Loaded                |       | Number       | Number |           |            |
| Other Direct Costs                     |                   | Rate                  |       | Weeks        | Units  |           | Amount     |
| FM Radio, Handheld w/ charger          |                   | 25.69                 |       | 7.50         | 4.00   |           | 770.70     |
| FM Radio Repeater/Base Station         |                   | 44.97                 |       |              |        |           | -          |
| Cellular Telephone and Service         |                   | 64,24                 |       |              |        |           |            |
| Video Camera                           |                   | 32.12                 |       |              |        |           | _          |
| Computer                               |                   | 96.36                 |       |              |        |           | _          |
| Brushcutter, power                     |                   | 96.36                 |       | 7.50         | 8.00   |           | 5,781.60   |
| Chainsaw                               |                   | 64.24                 |       | 7.50         | 8.00   |           | 3,854.40   |
| EOD Demolition Kit                     |                   | 51.39                 |       |              |        |           |            |
| Foester Ferrex Ordnance Locator        |                   | 385.43                |       |              | *      |           | _          |
| Schonstedt Magnetic Locator            |                   | 51.39                 |       | 7.50         | 4.00   |           | 1,541.70   |
| Explosive Storage magazine             |                   | 44.97                 |       |              |        |           | -          |
| Carrier Phase GPS                      |                   | 899.35                |       |              | :      |           | •          |
| Surveyor's Kit                         |                   | 64,24                 |       |              |        |           | -          |
| Total Station Survey Equipment         |                   | 835.11                |       |              |        |           |            |
| Ford Explorer                          |                   | 321.20                |       |              |        |           | -          |
| Pickup, 4x4, 3/4 Ton                   |                   | 449.67                |       | 7.50         | 4.00   |           | 13,490.10  |
| Air Fare - Round Trip                  |                   | 1,220.54              |       |              |        |           | •          |
| Mileage<br>Evel                        |                   | 0.40                  |       | 50.00        | 4.00   |           | 80.00      |
| Fuel                                   |                   | 1.74                  |       | 140.00       | 7.50   |           | 1,827.00   |
| Lodging<br>Meals and Incidentals       |                   | 68.09                 |       | 112.00       | 7.50   |           | 57,195.60  |
| Project Consumables                    |                   | 38.55                 |       | 112.00       | 7.50   |           | 32,382.00  |
| Printing and Binding                   |                   | 192.72                |       | 7.50         | 1.00   |           | 1,445.40   |
| Shipping                               |                   | 205.58                |       |              |        |           | -          |
| Site Trailer                           |                   | 154.17                |       |              |        |           | -          |
| Electrical Hook Up                     |                   | 963.59                |       |              |        |           | -          |
| Magazine Fencing                       |                   | 1,927.17              |       |              |        |           | -          |
| Magazine Mobilization                  |                   | 899.35<br>770.87      |       |              |        |           | -          |
| Donor Explosives                       |                   | 770.87                |       |              |        |           | •          |
| Site Remediation                       |                   | 1,541.74<br>500.00    |       |              |        |           | •          |
| Subtotal - Other Direct Costs          | <b>الموال</b> ة ، | 350,00                |       |              |        |           | 110 200 50 |
|  |                   |                       |       |              |        |           | 118,368.50 |
| Total Estimated Costs                  | 3                 |                       |       |              |        |           | 373,236.50 |
| Programme and the second of the second | Temera area de    | \$1, 100gar 21 - 11 A |       |              |        |           |            |

Tash 6 Surface OE Removal

|                                 |         |                  |       | :               | Surface OI | Removal   |             |
|---------------------------------|---------|------------------|-------|-----------------|------------|-----------|-------------|
|                                 |         | Londed<br>Hourly | Hours | Number          | Number     | Estimated |             |
| Labor Category                  |         | Rate             | Week  | Weeks           | People     | Hears     | Amount      |
| Program Management I            |         | 82,06            |       |                 | <u> </u>   |           | · ·         |
| Project Manager III             |         | 76,92            |       |                 |            | _         | _           |
| Project Manager II              |         | 66.67            |       |                 |            | •         | _           |
| Certified Industrial Hygienist  |         | 74.81            |       |                 |            | _         | _           |
| Engineer II                     |         | 76.92            |       |                 |            | -         | -           |
| Survey Manager                  |         | 56.42            |       |                 |            | _         | _           |
| Surveyor V                      |         | 46.16            |       |                 |            | _         | •           |
|                                 |         |                  |       |                 |            |           |             |
| Quality Control Specialist      | Regular | 47.04            |       |                 |            | -         | +           |
| Site Safety Officer             | Regular | 47.04            |       |                 |            | •         | -           |
| UXO Supervisor/Tech VI          | Regular | 53.29            |       |                 |            | -         | -           |
| UXO Supervisor/Tech V           | Regular | 47.04            | 40.00 | 5.25            | 4.00       | 840.00    | 39,513.60   |
| UXO Technician IV               | Regular | 40.49            | 40.00 | 5.25            | 16.00      | 3,360.00  | 136,046.40  |
| UXO Technician III              | Regular | 34.10            |       |                 |            | -         | -           |
| Laborer II                      | Regular | 28.65            |       |                 |            | -         | •           |
|                                 |         |                  |       |                 |            | -         |             |
| Subtotal - Lab                  | or      |                  |       |                 |            | 4,200.00  | 175,580.00  |
|                                 |         |                  |       |                 |            |           |             |
|                                 |         |                  |       |                 |            |           |             |
| Other Direct Costs              |         | Loaded<br>Rate   |       | Number<br>Weeks | Number     |           | <b>.</b>    |
| FM Radio, Handheld w/ charger   |         | 25.69            |       |                 | Units      |           | Amount      |
| FM Radio Repeater/Base Station  |         | 44.97            |       | 5.25            | 4.00       |           | 539.49      |
| Cellular Telephone and Service  |         | 64,24            |       |                 |            |           | •           |
| Video Camera                    |         | 32.12            |       |                 |            |           | -           |
| Computer                        |         | 96.36            |       |                 |            |           | -           |
| Brushcutter, power              |         | 96.36            |       |                 |            |           | •           |
| Chainsaw                        |         | 64.24            |       |                 |            |           | -           |
| EOD Demolition Kit              |         | 51,39            |       | 5.25            | 1,00       |           | -<br>269,80 |
| Foester Ferrex Ordnance Locator |         | 385.43           |       | 5.25            | 1.00       |           | 209.00      |
| Schonstedt Magnetic Locator     |         | 51.39            |       | 5.25            | 20.00      |           | 5,395.95    |
| Explosive Storage magazine      |         | 44.97            |       | 3.23            | 20.00      |           | 0,383.83    |
| Carrier Phase GPS               |         | 899,35           |       |                 |            |           | -           |
| Surveyor's Kit                  |         | 64.24            |       |                 |            |           | •           |
| Total Station Survey Equipment  |         | 835,11           |       |                 |            |           | -           |
| Ford Explorer                   |         | 321,20           |       |                 |            |           | -           |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |       | 5.25            | 4.00       |           | 9,443,07    |
| Air Fare - Round Trip           |         | 1,220.54         |       |                 | .,         |           | 0,440.01    |
| Mileage                         |         | 0.40             |       |                 |            |           | _           |
| Fuel                            |         | 1.74             |       | 140.00          | 5.25       |           | 1,278.90    |
| Lodging                         |         | 68.09            |       | 140.00          | 5.25       |           | 50,046.15   |
| Meals and Incidentals           |         | 38.55            |       | 141.00          | 5.25       |           | 28,536.64   |
| Project Consumables             |         | 192.72           |       |                 |            |           |             |
| Printing and Binding            |         | 205.56           |       |                 |            |           | _           |
| Shipping                        |         | 154.17           |       |                 |            |           | -           |
| Site Trailer                    |         | 963,59           |       |                 |            |           | -           |
| Electrical Hook Up              |         | 1,927.17         |       |                 |            |           | -           |
| Magaziné Fencing                |         | 899.35           |       |                 |            |           | -           |
| Magazine Mobilization           |         | 770.87           |       |                 |            |           | -           |
| Oonor Explosives                |         | 1,541.74         |       | 1.25            | 1.00       |           | 1,927.18    |
| Site Remediation                |         | 500.00           |       |                 |            |           |             |
| Subtotal - Other Direct Cost    | 3       |                  |       |                 |            |           | 97,437.18   |
|                                 |         |                  |       |                 |            |           |             |
| Total Estimated Cost            | 3       |                  |       |                 |            |           | 272,997.18  |

Task 7 Seen Tun-le

|                                |         |                          | Serap Tura-la        |                 |                  |                    |          |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|----------|--|
| Labor Category                 |         | Loaded<br>Honely<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amenat   |  |
| Program Management I           |         | 82.06                    |                      |                 |                  | -                  | -        |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  | _                  | -        |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  | _        |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | -                  | -        |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  | _                  | _        |  |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | _                  | _        |  |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | _                  | _        |  |
|                                |         |                          |                      |                 |                  |                    |          |  |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | -                  | •        |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  |                    | _        |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    | 40.00                | 0.50            | 1.00             | 20.00              | 1,065.80 |  |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | -                  | -,       |  |
| UXO Technician IV              | Regular | 40.49                    | 40.00                | 0.50            | 1.00             | 20.00              | 809.80   |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  |                    |          |  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | _                  | -        |  |
|                                |         |                          |                      |                 |                  |                    | -        |  |
| Subtotal - La                  | abor    |                          |                      |                 |                  | 40.00              | 1,875.60 |  |

| Other Direct Cont.              | Loaded   |       | Number |            |
|---------------------------------|----------|-------|--------|------------|
| Other Direct Costs              | Rate     | Weeks | Units  | <br>Amount |
| FM Radio, Handheld w/ charger   | 25.69    |       | -      | _          |
| FM Radio Repeater/Base Station  | 44.97    |       |        |            |
| Cellular Telephone and Service  | 64.24    |       |        | -          |
| Video Camera                    | 32.12    |       |        | -          |
| Computer                        | 96.36    |       |        | -          |
| Brushcutter, power              | 96.36    |       |        | -          |
| Chainsaw                        | 64.24    |       |        |            |
| EOD Demolition Kit              | 51,39    |       |        | -          |
| Foester Ferrex Ordnance Locator | 385.43   |       |        | -          |
| Schonstedt Magnetic Locator     | 51.39    |       |        |            |
| Explosive Storage magazine      | 44.97    |       |        | _          |
| Carrier Phase GPS               | 899.35   |       |        | -          |
| Surveyor's Kit                  | 64.24    |       | i      | _          |
| Total Station Survey Equipment  | 835.11   |       |        | _          |
| Ford Explorer                   | 321.20   |       |        | _          |
| Pickup, 4x4, 3/4 Ton            | 449.67   | 1.00  | 0.25   | 112.42     |
| Alr Fare - Round Trip           | 1,220.54 |       |        | -          |
| Mileage                         | 0.40     |       |        | -          |
| Fuel                            | 1.74     | 80.00 | 1.00   | 139,20     |
| Lodging                         | 68.09    | 1.00  | 2.00   | 136,18     |
| Meals and Incidentals           | 38.55    | 1.00  | 2.00   | 77.10      |
| Project Consumables             | 192.72   | 1.00  | 1.00   | 192.72     |
| Printing and Binding            | 205.56   |       |        |            |
| Shipping                        | 154.17   |       |        | -          |
| Site Trailer                    | 963.59   |       |        | -          |
| Electrical Hook Up              | 1,927.17 |       |        | -          |
| Magazine Fencing                | 899,35   |       |        |            |
| Magazine Mobilization           | 770.87   |       |        | -          |
| Donor Explosives                | 1,541.74 |       |        | -          |
| Site Remediation                | 500.00   |       |        |            |
| Subtotal - Other Direct Costs   |          |       |        | 657,62     |
|                                 |          |       |        |            |
| Total Estimated Costs           |          |       |        | 2,533.22   |

|     | Т.,  | Ļ | 8   |  |
|-----|------|---|-----|--|
| Q== | lity | C | oni |  |

|   |          | Loaded   | Hours |        | Quality ( | Control   |                       |
|---|----------|----------|-------|--------|-----------|-----------|-----------------------|
|   |          | Hourly   | per   | Number | Number    | Estimated |                       |
| Labor Category                            |          | Rate     | Week  | Weeks  | People    | Hours     | Amount                |
| Program Management I                      |          | 82,06    |       |        | - top.c   |           | 71.00.000             |
| Project Manager III                       |          | 76.92    |       |        |           | _         | •                     |
| Project Manager II                        |          | 66.67    |       |        |           | _         | -                     |
| Certified Industrial Hygienist            |          | 74,81    |       |        |           | _         | _                     |
| Engineer II                               |          | 76.92    |       |        |           | _         | _                     |
| Survey Manager                            |          | 56.42    |       |        |           | -         | -                     |
| Surveyor V                                |          | 46.16    |       |        |           | _         |                       |
|   |          |          |       |        |           |           |                       |
| Quality Control Specialist                | Regular  | 47.04    | 40.00 | 5.25   | 1.00      | 210.00    | 9,878,40              |
| Site Safety Officer                       | Regular  | 47.04    |       |        |           |           | -                     |
| UXO Supervisor/Tech VI                    | Regular  | 53.29    |       |        |           | _         | _                     |
| UXO Supervisor/Tech V                     | Regular  | 47,04    |       |        |           | _         |                       |
| UXO Technician (V                         | Regular  | 40.49    |       |        |           | -         | -                     |
| UXO Technician III                        | Regular  | 34.10    | 40.00 | 5.25   | 1,00      | 210.00    | 7,1 <del>8</del> 1.00 |
| Laborer II                                | Regular  | 28,65    | 40.00 | J.20   | 1.00      | 210.00    | 7,101.00              |
|   | ,1092121 | 20.00    |       |        |           | -         | -                     |
| Subtotal - Labo                           | r        |          |       |        |           | 420.00    | 17,039.40             |
|   |          |          |       |        |           | 120.00    | 17,000,40             |
|   |          |          |       |        |           |           |                       |
| Other Direct Costs                        |          | Loaded   |       | Number | Number    |           | _                     |
|   |          | Rate     |       | Weeks  | Units     |           | Amount                |
| FM Radio, Handheid w/ charger             |          | 25.69    |       | 5.25   | 1.00      |           | 134.87                |
| FM Radio Repeater/Base Station            |          | 44.97    |       |        | i         |           | -                     |
| Cellular Telephone and Service            |          | 84.24    |       |        |           |           | -                     |
| Video Camera                              |          | 32.12    |       |        |           |           | -                     |
| Computer                                  |          | 96.36    |       |        |           |           | •                     |
| Brushcutter, power                        |          | 96.36    |       |        |           |           | -                     |
| Chainsaw                                  |          | 64.24    |       |        | ·         |           | -                     |
| EOD Demolition Kit                        |          | 51,39    |       |        |           |           | -                     |
| Foester Ferrex Ordnance Locator           |          | 385.43   |       |        |           |           | -                     |
| Schonstedt Magnetic Locator               |          | 51.39    |       | 5.25   | 2.00      |           | 539.60                |
| Explosive Storage magazine                |          | 44.97    |       |        |           |           | -                     |
| Carrier Phase GPS                         |          | 899,35   |       |        |           |           | -                     |
| Surveyor's Kit                            |          | 64.24    |       |        |           |           | -                     |
| Total Station Survey Equipment            |          | 835.11   |       |        |           |           | -                     |
| Ford Explorer                             |          | 321.20   |       | 5.25   | 1.00      |           | 1,686.30              |
| Pickup, 4x4, 3/4 Ton                      |          | 449.67   |       |        |           |           | -                     |
| Air Fare - Round Trip<br>Mileage          |          | 1,220.54 |       | 1.00   | 2.00      |           | 2,441.08              |
| <b>-</b> •                                |          | 0.40     |       | 50.00  | 2.00      |           | 40.00                 |
| ruel<br>Lodging                           |          | 1.74     |       | 35.00  | 5.25      |           | 319,73                |
| Meals and Incidentals                     |          | 68,09    |       | 14.00  | 5.25      |           | 5,004.62              |
| Project Consumables                       |          | 38.55    |       | 15.00  | 5.25      |           | 3,035.81              |
| Printing and Binding                      |          | 192.72   |       | 1.00   | 5.25      |           | 1,011.7B              |
| Shipping                                  |          | 205.56   |       |        |           |           | -                     |
| Site Trailer                              |          | 154.17   |       |        |           |           | -                     |
| Electrical Hook Up                        |          | 963.59   |       |        |           |           | -                     |
| Magazine Fencing                          |          | 1,927.17 |       |        |           |           | -                     |
| wagazine rending<br>Wagazine Mobilization |          | 899,35   |       |        |           |           | -                     |
| wagazine modilization<br>Donor Explosives |          | 770.87   |       |        |           |           | -                     |
| Site Remediation                          |          | 1,541.74 |       |        |           |           | -                     |
| Subtotal - Other Direct Costs             |          | 500.00   |       |        |           |           | · · · ·               |
| Onnight - Other Direct Costs              |          |          |       |        |           |           | 14,213.79             |
| Total Estimated Costs                     |          |          |       |        |           |           | 24.062.42             |
| Faciliates Chata                          |          |          |       |        |           |           | 31,253.19             |

| Engineering Design Cost Estima<br>Natural Brush/Forests |         |                          |                      |                 | Tasl             |                    |           |
|---|---------|--------------------------|----------------------|-----------------|------------------|--------------------|-----------|
|   |         |                          |                      |                 |                  |                    |           |
| Labor Category  |         | Loaded<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ámenat    |
| Program Management I                                    |         | 82.06                    | 42.00                | 0.25            | 1.00             | 10.50              | 861.63    |
| Project Manager III                                     |         | 76.92                    |                      |                 |                  | -                  |           |
| Project Manager II                                      |         | 66.67                    | 42.00                | 2.00            | 1.00             | 84.00              | 5,600.28  |
| Certified Industrial Hygienist                          |         | 74.81                    |                      |                 |                  | -                  | *         |
| Engineer If   |         | 76.92                    | 42.00                | 1.00            | 1.00             | 42.00              | 3,230.84  |
| Survey Manager  |         | 56.42                    | 42.00                | 2.00            | 1.00             | 84.00              | 4,739.28  |
| Surveyor V  |         | 46.16                    |                      |                 |                  | -                  | -         |
|   |         |                          |                      |                 |                  |                    |           |
| Quality Control Specialist                              | Regular | 47.04                    |                      |                 |                  | -                  |           |
| Site Safety Officer                                     | Regular | 47.04                    |                      |                 |                  | _                  | _         |
| UXO Supervisor/Tech VI                                  | Regular | 53.29                    |                      |                 |                  | -                  | _         |
| UXO Supervisor/Tech V                                   | Regular | 47.04                    |                      |                 |                  | _                  | -         |
| UXO Technician IV                                       | Regular | 40.49                    |                      |                 |                  | _                  | _         |
| UXO Technician III                                      | Regular | 34.10                    |                      |                 |                  | -                  | _         |
| Laborer II  | Regular | 28.65                    |                      |                 |                  | _                  | -         |
|   |         |                          |                      |                 |                  | _                  | _         |
| Subtotal - Lab  | Φr      |                          |                      |                 |                  | 220.50             | 14,431,83 |
|   |         |                          |                      |                 |                  |                    |           |
|   |         | Loaded                   |                      | Number          | Number           |                    |           |
| Other Direct Costs                                      |         | Rate                     |                      | Weeks           | Units            |                    | Amount    |
| FM Radio, Handheld w/ charger                           |         | 25.69                    |                      |                 |                  |                    |           |
| FM Radio Repeater/Base Station                          |         | 44.97                    |                      |                 |                  |                    | -         |
| Cellular Telephone and Service                          |         | 64.24                    |                      |                 |                  |                    | -         |
| Video Camera  |         | 32,12                    |                      |                 |                  |                    |           |
| Computer  |         | 96.36                    |                      |                 |                  |                    | -         |
| Brushcutter, power                                      |         | 96.36                    |                      |                 |                  |                    | -         |
| Chaine  |         |                          |                      |                 |                  |                    | -         |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forests--A

Tusk 10 Site Remediation

|                                |         |                          |                      |                 | 2                |                    |        |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|--------|
| Labor Category                 |         | Londed<br>Hourly<br>Rate | Hours<br>per<br>Week | Nomber<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt |
| Program Management I           |         | 82.06                    |                      | -               |                  | _                  |        |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  | _      |
| Project Manager II             |         | 86.67                    |                      |                 |                  | -                  |        |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | -                  | -      |
| Engineer (I                    |         | 76.92                    |                      |                 |                  | •                  | -      |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | -                  | -      |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | •                  | -      |
|                                |         |                          |                      |                 |                  |                    |        |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | -                  | _      |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | _                  | -      |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  |                    | _      |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | _                  | _      |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | _                  |        |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | _                  |        |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | _                  | _      |

Subtotal - Labor

| Other Direct Costs              | Loaded   | Number Number |        |
|---------------------------------|----------|---------------|--------|
|                                 | Rate     | Weeks Units   | Amount |
| FM Radio, Handheld w/ charger   | 25.69    |               | -      |
| FM Radio Repeater/Base Station  | 44.97    |               | -      |
| Cellular Telephone and Service  | 64.24    |               | •      |
| Video Camera                    | 32.12    |               | -      |
| Computer                        | 96.36    |               | •      |
| Brushcutter, power              | 96.36    |               | -      |
| Chainsaw                        | 64.24    |               | -      |
| EOD Demolition Kit              | 51.39    |               | -      |
| Foester Ferrex Ordnance Locator | 385.43   |               | -      |
| Schonstedt Magnetic Locator     | 51.39    | •             | -      |
| Explosive Storage magazine      | 44.97    |               | -      |
| Carrier Phase GPS               | 899.35   |               | _      |
| Surveyor's Kit                  | 64.24    |               |        |
| Total Station Survey Equipment  | 835.11   |               | _      |
| ord Explorer                    | 321.20   |               | _      |
| Pickup, 4x4, 3/4 Ton            | 449.67   |               | -      |
| Alr Fare - Round Trip           | 1,220.54 |               |        |
| Aileage                         | 0.40     |               |        |
| Fuel                            | 1.74     |               | _      |
| .odging                         | 68.09    |               | _      |
| Meals and Incidentals           | 38.55    |               |        |
| roject Consumables              | 192.72   |               |        |
| Printing and Binding            | 205.56   |               |        |
| Shipping                        | 154,17   |               | _      |
| Site Trailer                    | 963.59   |               | _      |
| Bectrical Hook Up               | 1,927.17 |               | _      |
| fagazine Feπcing                | 899.35   |               | _      |
| fagazine Mobilization           | 770.87   |               | _      |
| Ponor Explosives                | 1,541.74 |               |        |
| ite Remediation                 | 500.00   | 1.00 1.00     | 500.00 |
| Subtotal - Other Direct Costs   |          | 7,00          | 500.00 |
|                                 |          |               | 300.00 |
| <b>Total Estimated Costs</b>    |          |               | 500.00 |
|                                 |          |               | 300.00 |

# Natural Brush/Forests - A

# Alternative 7 - Surface and Subsurface OE Clearance Over Entire Area to a Depth of One Foot

Alternative 7 requires a complete OE surface and subsurface OE clearance of 169.05 acres to a depth of one foot. The work schedule is based on working four 10-hour days per work week. Where possible, local laborers are used to reduce per diem and labor cost. Per diem costs for labors is assumed to be one-half the JTR rate. Because the surface clearance will be performed concurrently with the subsurface clearance, the cost for the surface clearance is included in the subsurface costs. Brush clearing efforts are intensive based on previous work performed at the site; therefore, the production effort is established at 4 grids per day per team. It is assumed that 80% of the total grids will require moderate brush clearance efforts. During the Engineering Design effort 8.61 acres were geophysically investigated to a depth of 4 feet. Brush clearance and surface clearance production rates have been proportionally increased to account for the effort previously completed. The land survey effort was not adjusted, as grids established during the Engineering Design initiative add no value to the removal action. Typically, a survey team can survey twenty 100' X 100' grids per day. A site restoration line item has been included in this estimate to account for funds to re-seed and return the site to near original condition.

Total Acreage/grids to Surface Clear:

Total Acreage Previously Geophysically Investigated:

Adjusted acreage:

Adjusted number of grids

Grids Requiring Brush Clearance

Search Grid Size: 100' X 100'

169.05 acres/736 (100' X100') search grids

8.61 acres

160.44 acres

698 grids

588 grids/135.17 acres

.22 acres per grid

### **Production Rates:**

Brush Clearance Land Survey

Surface Clearance

4 grids per day per four man team (four teams @ 16 grids per day)
14 grids per day per two person team (three teams @ 42 grids per day)

7.62 grids per day (1.75 acres) per 5 person team (4 teams@ 30.48

grids per workday)

### **Duration:**

Project Management

Land Survey
Brush Clearance

45 working days/11.25 weeks

20 working days/5 weeks (three teams)

37 working days/9.25 weeks -- 4 grids per work day per four-person

team (four teams @ 16 grids per workday)

Subsurface Clearance

arance 25 w

Disposal

Quality Control
Total Duration

---1 '

23 working days/5.75 weeks (four five-person teams) Effort included in Surface Clearance

23 working days/5.75 weeks (2 person team)

45 Working Days/11.25 weeks

# OE Surface/Subsurface Clearance of Entire Area to 1 Foot - Alternative 7

|                                |         | _                        |                      | Summery         |                  |                    |            |  |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|------------|--|
| Labor Category                 |         | Loaded<br>Honely<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Happe | Amount     |  |
| Program Management I           |         | 82.06                    |                      |                 |                  | 39.90              | 3,274,19   |  |
| Project Manager III            |         | 76.92                    |                      |                 |                  | 472.50             | 36,344.70  |  |
| Project Manager II             |         | 66.67                    |                      |                 |                  | 222.60             | 14,840.74  |  |
| Certified Industrial Hygienist |         | 74.81                    |                      |                 |                  | 20.00              | 1,496.20   |  |
| Engineer II                    |         | 76.92                    |                      |                 |                  | 63.00              | 4,845,96   |  |
| Survey Manager                 | :       | 56.42                    |                      |                 |                  | 231.00             | 13,033.02  |  |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | 630,00             | 29,080,80  |  |
|                                |         |                          |                      |                 |                  |                    | ,          |  |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | 230.00             | 10,819,20  |  |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | 450.00             | 21,168.00  |  |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | 542.00             | 28,883.18  |  |
| UXO Supervisor/Tech V          | Regular | 47,04                    |                      |                 |                  | 920.00             | 43,276.80  |  |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | 5,180,00           | 209,738.20 |  |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | 830.00             | 28,303.00  |  |
| Laborer II                     | Regular | 28.65                    |                      |                 |                  | 8,880.00           | 254,412.00 |  |
| 0                              |         |                          |                      |                 |                  | -                  | <u> </u>   |  |
| Subtotal - Li                  | BDOL    |                          |                      |                 |                  | 18,711.00          | 699,515.99 |  |

|                                 | Loaded   | Number Number   |                 |
|---------------------------------|----------|-----------------|-----------------|
| Other Direct Costs              | Rate     | Weeks Units     | Amount          |
| FM Radio, Handheld w/ charger   | 25.69    |                 | 2,459,82        |
| FM Radio Repeater/Base Station  | 44.97    |                 | 2,023.65        |
| Cellular Telephone and Service  | 84.24    |                 | 774.09          |
| Video Camera                    | 32.12    |                 | 387.05          |
| Computer                        | 96.36    |                 | 2.625.81        |
| Brushcutter, power              | 96.36    |                 | 4,456.65        |
| Chainsaw                        | 64.24    |                 | 2,971,10        |
| EOD Demolition Kit              | 51,39    |                 | 295.49          |
| Foester Ferrex Ordnance Locator | 385.43   |                 | 308.34          |
| Schonstedt Magnetic Locator     | 51.39    |                 | 9,173.12        |
| Explosive Storage magazine      | 44.97    |                 | 1,517,74        |
| Carrier Phase GPS               | 899.35   |                 | 3,597,40        |
| Surveyor's Kit                  | 64.24    |                 | 963,60          |
| Total Station Survey Equipment  | 835.11   |                 | 12,526,65       |
| Ford Explorer                   | 321.20   |                 | 7,500.02        |
| Pickup, 4x4, 3/4 Ton            | 449.67   |                 | 27,092.62       |
| Alr Fare - Round Trip           | 1,220.54 |                 | 17,087.56       |
| Mileage                         | 0.40     |                 | 1,100,00        |
| Fuel                            | 1.74     |                 | 7,261.46        |
| Lodging                         | 68.09    |                 | 162,309.54      |
| Meals and Incidentais           | 38.55    |                 | 93,435.57       |
| Project Consumables             | 192.72   |                 | 10,695.98       |
| Printing and Binding            | 205.56   |                 | 1,644,48        |
| Shipping                        | 154.17   |                 | 925.02          |
| Site Trailer                    | 963.59   |                 | 2,707.69        |
| Electrical Hook Up              | 1,927.17 |                 | 1,927.17        |
| Magazine Fencing                | 899.35   |                 | 899.35          |
| Magazine Mobilizatioл           | 770.87   |                 | 770.87          |
| Donor Explosives                | 1,541,74 |                 | 2,775.13        |
| Site Remediation                | 500.00   |                 | 500.00          |
| Subtotal - Other Direct Costs   |          |                 | 382,712.95      |
| Total Estimated Costs           |          |                 | 1,082,228,94    |
| sonal in<br>Konganasangan       |          | it in minimized | THE CONTRACT OF |

Corps of Engineers Camp Croft, Spartenburg, S.C. **Engineering Design Cost Estimate** 

Magazine Mobilization

Subtotal - Other Direct Costs

Total Estimated Costs

Donor Explosives

Site Remediation

| Natural Brush/Forests-          | -n                 |                |       |        | Taa<br>Site ' |           |          |
|---------------------------------|--------------------|----------------|-------|--------|---------------|-----------|----------|
|                                 |                    | Loaded         | Hours |        | one           | * 1501    |          |
|                                 |                    | Hearly         | per   | Number | Number        | Estimated |          |
| Labor Catagory                  |                    | Rate           | Week  | Weeks  | People        | Hours     | Amount   |
| Program Management I            |                    | 82,06          | 42.00 | 0.20   | 1.00          | 8.40      | 689.30   |
| Project Manager III             |                    | 76.92          |       |        |               | -         | -        |
| Project Manager II              |                    | 66.67          | 42.00 | 0.60   | 1.00          | 33.60     | 2,240.11 |
| Certified Industrial Hygienist  |                    | 74.81          |       |        |               | -         | -        |
| Engineer II                     |                    | 76.92          |       |        |               | -         | -        |
| Survey Manager<br>Surveyor V    |                    | 56.42          |       |        |               | -         | -        |
| Suiveyor v                      |                    | 48.16          |       |        |               | -         | -        |
| Quality Control Specialist      | Pagulas            | 47.04          |       |        |               |           |          |
| Site Safety Officer             | Regular            |                |       |        |               | -         | -        |
| UXO Supervisor/Tech VI          | Regular<br>Regular | 47.04          | 40.00 |        | 4.00          | -         |          |
| UXO Supervisor/Tech V           | _                  | 53.29          | 40.00 | 0.80   | 1.00          | 32.00     | 1,705.28 |
| UXO Technician IV               | Regular            | 47.04          |       |        |               | -         | -        |
| UXO Technician III              | Regular            | 40.49          |       |        |               | -         | •        |
| Laborer II                      | Regular            | 34.10<br>28.65 |       |        |               | -         | -        |
|                                 | Regular            | 28.00          |       |        |               | -         | -        |
| Subtotal - Labo                 | vr.                |                |       |        |               | 74.00     | 4.004.00 |
| Outlitui Eggt                   | , i                |                |       |        |               | 74.00     | 4,634.69 |
|                                 |                    |                |       |        |               |           |          |
|                                 |                    | Loaded         |       | Number | Number        |           |          |
| Other Direct Costs              |                    | Rate           |       | Weeks  | Units         |           | Amount   |
| M Radio, Handheld w/ charger    |                    | 25.69          |       |        |               | •         | -        |
| M Radio Repeater/Base Station   |                    | 44.97          |       |        |               |           | -        |
| Cellular Telephone and Service  |                    | 64,24          |       | 0.80   | 1,00          |           | 51.39    |
| ∕ideo Camera                    |                    | 32.12          |       | 0.80   | 1.00          |           | 25.70    |
| Computer                        |                    | 96,36          |       | 5/45   | ,,,,,         |           | 25.70    |
| Brushoutter, power              |                    | 96.36          |       |        |               |           | _        |
| Chainsaw                        |                    | 64.24          |       |        |               |           | _        |
| EOD Demolition Kit              |                    | 51.39          |       |        |               |           | _        |
| Foester Ferrex Ordnance Locator | •                  | 385.43         |       | 0.80   | 1.00          |           | 308.34   |
| Schonstedt Magnetic Locator     |                    | 51.39          |       |        | ****          |           | 000:04   |
| xplosive Storage magazine       |                    | 44.97          |       |        |               |           | _        |
| Carrier Phase GPS               |                    | 899.35         |       |        |               |           | _        |
| iurveyor's Kit                  |                    | 64.24          |       |        |               |           | _        |
| otal Station Survey Equipment   |                    | 835.11         |       |        |               |           | _        |
| ord Explorer                    |                    | 321.20         |       | 2.00   | 0.80          |           | 513.92   |
| ickup, 4x4, 3/4 Ton             |                    | 449.67         |       |        |               |           |          |
| Ar Fare - Round Trip            |                    | 1,220.54       |       | 1.00   | 2.00          |           | 2,441.08 |
| 1)leage                         |                    | 0.40           |       | 50.00  | 2.00          |           | 40.00    |
| ันธโ                            |                    | 1.74           |       | 5.00   | 8.00          |           | 69.60    |
| odging                          |                    | 68.09          |       | 4.00   | 2.00          |           | 544.72   |
| feats and incidentals           |                    | 38,55          |       | 5.00   | 2.00          |           | 385.50   |
| roject Consumables              |                    | 192.72         |       | 1.00   | 1.00          |           | 192.72   |
| rinting and Binding             |                    | 205.56         |       |        |               |           |          |
| hipping                         |                    | 154,17         |       |        |               |           | -        |
| ite Trailer                     |                    | 963.59         |       |        |               |           | -        |
| lectrical Hook Up               |                    | 1,927.17       |       |        |               |           | _        |
| lagazìne Fencing                |                    | 899.35         |       |        |               |           | -        |
|                                 |                    |                |       |        |               |           |          |

770.87

500.00

1,541.74

4,572.97

9,207.66

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forests--A

Task 2 Work Plan

|                                |         | Loaded         | Hours       |                 |                  |                    |          |
|--------------------------------|---------|----------------|-------------|-----------------|------------------|--------------------|----------|
| Labor Category                 |         | Hourly<br>Rate | per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Ameunt   |
| Program Management I           |         | 82.06          | 42.00       | 0.50            | 1.00             | 21.00              | 1,723.26 |
| Project Manager III            |         | 76.92          |             |                 |                  | -                  | •        |
| Project Manager II             |         | 66.67          | 42.00       | 2.50            | 1.00             | 105.00             | 7.000.35 |
| Certified Industrial Hygienist |         | 74.81          | 40.00       | 0.50            | 1.00             | 20.00              | 1,496.20 |
| Engineer II                    |         | 76.92          | 42.00       | 0.50            | 1.00             | 21.00              | 1,615.32 |
| Survey Manager                 |         | 56.42          | 42.00       | 2.00            | 1.00             | 84.00              | 4,739.28 |
| Surveyor V                     |         | 46.16          |             |                 |                  | -                  | -        |
|                                |         |                |             |                 |                  | •                  |          |
| Quality Control Specialist     | Regular | 47.04          |             |                 |                  | -                  | -        |
| Site Safety Officer            | Regular | 47.04          |             |                 |                  | -                  |          |
| UXO Supervisor/Tech VI         | Regular | 53.29          | 40.00       | 1.00            | 1.00             | 40.00              | 2,131,60 |
| UXO Supervisor/Tech V          | Regular | 47.04          |             |                 |                  | -                  | -,       |
| UXO Technician IV              | Regular | 40.49          |             |                 |                  |                    | -        |
| UXO Technician III             | Regular | 34.10          |             |                 |                  | _                  | -        |
| Laborer II                     | Regular | 28.65          |             |                 |                  | _                  | _        |
|                                |         |                |             |                 |                  | -                  | _        |
| Cubintal L                     |         |                |             |                 |                  |                    |          |

| Subtotal - Labor | 291.00 | 40 700 04 |
|------------------|--------|-----------|
| CODICION - LANCE | 291 OU | 18,706,01 |
|                  |        |           |

|                                 | Loaded   | Number | Number |           |
|---------------------------------|----------|--------|--------|-----------|
| Other Direct Costs              | Rate     | Weeks  | Units  | Amount    |
| FM Radio, Handheld w/ charger   | 25.69    | -      |        |           |
| FM Radio Repeater/Base Station  | 44.97    |        |        | -         |
| Cellular Telephone and Service  | 64,24    |        |        |           |
| Video Camera                    | 32.12    |        |        | _         |
| Computer                        | 96.36    | 1.00   | 1.00   | 96.3      |
| Brushcutter, power              | 96.36    |        |        | <u>-</u>  |
| Chainsaw                        | 64.24    | -      |        | _         |
| EOD Demolition Kit              | 51,39    |        |        | _         |
| Foester Ferrex Ordnance Locator | 385.43   |        |        | _         |
| Schonstedt Magnetic Locator     | 51.39    |        | i      | _         |
| Explosive Storage magazine      | 44.97    |        |        | _         |
| Carrier Phase GPS               | 899.35   |        |        |           |
| Surveyor's Kit                  | 64.24    |        |        |           |
| Total Station Survey Equipment  | 635.11   |        |        | _         |
| Ford Explorer                   | 321.20   | 1.00   | 1.00   | 321.20    |
| Pickup, 4x4, 3/4 Ton            | 449.67   |        |        | -         |
| Alr Fare - Round Trip           | 1,220.54 | 1.00   | 1.00   | 1,220,54  |
| Mileage                         | 0.40     | 50.00  | 1.00   | 20.00     |
| leu                             | 1.74     | 1.00   | 40.00  | 69.60     |
| Lodging                         | 68.09    | 6.00   | 1.00   | 408,54    |
| Meals and Incidentals           | 38.55    | 7.00   | 1.00   | 269.85    |
| Project Consumables             | 192.72   | 8.00   | 1.00   | 1,541.76  |
| Printing and Binding            | 205.56   | 1.00   | 2.00   | 411.12    |
| Shipping                        | 154.17   |        |        | _         |
| Site Trailer                    | 963.59   |        |        | _         |
| Electrical Hook Up              | 1,927.17 |        |        | _         |
| Magazine Fencing                | 699.35   |        |        | <u> -</u> |
| Aagazine Mobilization           | 770.87   |        |        | _         |
| Ponor Explosives                | 1,541.74 |        |        | _         |
| Site Remediation                | 500.00   |        |        |           |
| Subtotal - Other Direct Costs   |          |        |        | 4,358.97  |
| Total Estimated Costs           |          |        |        |           |
| Fotal Estimated Costs           |          |        |        | 23,064.98 |

Corps of Engineers
Camp Croft, Spartenburg, S.C.
Engineering Design Čost Estimate
Natural Brush/Forests...4

Carrier Phase GPS

Pickup, 4x4, 3/4 Ton

Alr Fare - Round Trip

Meals and incidentals

**Project Consumables** 

Printing and Binding

Electrical Hook Up

Magazine Fencing

**Donor Explosives** 

Site Remediation

Magazine Mobilization

Subtotal - Other Direct Costs

**Total Estimated Costs** 

Total Station Survey Equipment

Surveyor's Kit

Ford Explorer

Mileage

Lodging

Shipping

Site Trailer

Fue!

| Engineering Design Cost Estima  |         |                  |              |        |        |               |           |
|---------------------------------|---------|------------------|--------------|--------|--------|---------------|-----------|
| Natural Brush/Forests           |         |                  |              |        | Task   | 3             |           |
|                                 |         |                  |              |        | 5      | Site Manageme | nt        |
|                                 |         | Loaded<br>Hourly | Hours<br>per | Number | Number | Estimated     |           |
| Labor Category                  |         | Rate             | Week         | Weeks  | People | Hours         | Amount    |
| Program Management I            |         | 82.06            | -            |        |        | -             | •         |
| Project Manager III             |         | 76.92            | 42.00        | 11.25  | 1.00   | 472.50        | 36,344.70 |
| Project Manager II              |         | 66.67            |              |        |        | •             | -         |
| Certified Industrial Hygienist  |         | 74.81            |              |        |        | -             | -         |
| Engineer II                     |         | 76.92            |              |        |        | •             | -         |
| Survey Manager                  |         | 56.42            |              |        |        | -             | -         |
| Surveyor V                      |         | 48.16            |              |        |        |               | -         |
|                                 |         |                  |              |        |        |               |           |
| Quality Control Specialist      | Regular | 47.04            |              |        |        | -             | •         |
| Site Safety Officer             | Regular | 47.04            | 40.00        | 11.25  | 1.00   | 450.00        | 21,168.00 |
| UXO Supervisor/Tech VI          | Regular | 53.29            | 40.00        | 11.25  | 1.00   | 450,00        | 23,980.50 |
| UXO Supervisor/Tech V           | Regular | 47.04            |              |        |        | -             | -         |
| UXO Technician IV               | Regular | 40.49            |              |        |        | -             | •         |
| UXO Technician III              | Regular | 34.10            |              |        |        | +             | -         |
| Laborer II                      | Regular | 28.65            |              |        |        | -             | -         |
|                                 |         |                  |              |        |        | -             |           |
| Subtotal - Lab                  | 01      | !                |              |        |        | 1,372.50      | 81,493.20 |
|                                 |         |                  |              |        |        |               |           |
|                                 |         | Loaded           | •            | Number | Number | ,             |           |
| Other Direct Costs              |         | Rate             |              | Weeks  | Units  | ı             | Amount    |
| FM Radio, Haлdheld w/ charger   |         | 25.69            |              |        |        |               | -         |
| FM Radio Repeater/Base Station  |         | 44.97            |              | 11.25  | 4.00   |               | 2,023.65  |
| Cellular Telephone and Service  |         | 64.24            |              | 11.25  | 1.00   |               | 722.70    |
| Video Camera                    |         | 32.12            |              | 11.25  | 1.00   |               | 361.35    |
| Computer                        |         | 96.36            |              | 11.25  | 1.00   |               | 1,084.05  |
| Brushcutter, power              |         | 96.36            |              |        |        |               | •         |
| Chainsaw                        |         | 64.24            |              |        |        |               | -         |
| EOD Demolition Kit              |         | 51.39            |              |        |        |               | -         |
| Foester Ferrex Ordnance Locator |         | 385.43           |              |        |        |               | -         |
| Schonstedt Magnetic Locator     |         | 51.39            |              |        |        |               | -         |
| Explosive Storage magazine      |         | 44.97            |              | 11.25  | 3.00   |               | 1,517.74  |

899.35

64.24

835.11

321.20

449.67

0.40

1.74

68.09

38.55

192.72

205.56

154.17

963.59

899,35

770.87

500.00

1,541,74

1,927.17

1.00

2,000.00

105.00

21.00

22.00

11.25

2.00

1.00

2.81

1.00

1.00

1.00

3.00

1.00

11.25

11.25

11.25

1.00

1.00

3.00

1.00

1.00

1.00

1.00

1,220.54

3,661.62

2,055.38

16,086.26

9,541.13

2,168.10

411.12

462.51

2.707.69

1,927.17

899.35

770.87

47,200.69

128,693.89

800.00

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forests--A

Site Trailer

Electrical Hook Up

Magazine Fencing

Donor Explosives

Site Remediation

Magazine Mobilization

Subtotal - Other Direct Costs

Total Estimated Costs

| Natural Brush/Forests-          | -A      |                |             |                 | Tes              | ık 4               |           |
|---------------------------------|---------|----------------|-------------|-----------------|------------------|--------------------|-----------|
|                                 |         |                |             |                 |                  | Land Surv          | *y        |
|                                 |         | Loaded         | Hours       | an I            | Br 1             |                    |           |
| Labor Category                  |         | Hourly<br>Rate | per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount    |
| Program Management I            |         | 82.06          |             |                 |                  | -                  | A_000.    |
| Project Manager III             |         | 76.92          |             |                 |                  |                    | _         |
| Project Manager II              |         | 66.67          |             |                 |                  | _                  | _         |
| Certified Industrial Hygienist  |         | 74.81          |             |                 |                  |                    | _         |
| Engineer II                     |         | 76.92          |             |                 |                  |                    | _         |
| Survey Manager                  | ŀ       | 56.42          | 42.00       | 1.50            | 1,00             | 63,00              | 3,554.40  |
| Surveyor V                      |         | 46.16          | 42.00       | 5.00            | 3.00             | 630.00             | 29,080.8  |
|                                 |         |                |             |                 |                  |                    |           |
| Quality Control Specialist      | Regular | 47.04          |             |                 |                  | -                  | -         |
| Site Safety Officer             | Regular | 47.04          |             |                 |                  | -                  | -         |
| UXO Supervisor/Tech VI          | Regular | 53.29          |             |                 |                  | -                  | -         |
| UXO Supervisor/Tech V           | Regular | 47.04          |             |                 |                  | -                  | _         |
| UXO Technician IV               | Regular | 40.49          |             |                 |                  | -                  | -         |
| UXO Technician III              | Regular | 34.10          | 40.00       | 5.00            | 3.00             | 600.00             | 20,460.00 |
| aborer II                       | Regular | 28.65          |             |                 |                  | -                  | •         |
| Dark-to-Land                    |         |                |             |                 |                  | -                  |           |
| Subtotal - Labo                 | Or .    |                |             |                 |                  | 1,293.00           | 53,095.26 |
|                                 |         |                |             |                 |                  |                    |           |
|                                 |         | Loaded         |             | Number          | Number           |                    |           |
| Other Direct Costs              |         | Rate           |             | Weeks           | Units            |                    | Amount    |
| FM Radio, Handheld w/ charger   |         | 25.69          |             | 5.00            | 6.00             |                    | 770,70    |
| M Radio Repeater/Base Station   |         | 44.97          |             |                 |                  |                    | .,.,.     |
| Cellular Telephone and Service  |         | 64.24          |             |                 |                  |                    |           |
| Video Camera                    |         | 32.12          |             |                 |                  |                    | _         |
| Computer                        |         | 96.36          |             | 5.00            | 3.00             |                    | 1,445.40  |
| Brushcutter, power              |         | 96.36          |             |                 |                  |                    | .,        |
| Chainsaw                        |         | 64.24          |             |                 |                  |                    | _         |
| EOD Demolition Kit              |         | 51.39          |             |                 |                  |                    | _         |
| Foester Ferrex Ordnance Locator |         | 385.43         |             |                 |                  |                    | _         |
| Schonstedt Magnetic Locator     |         | 51.39          |             | 5.00            | 3.00             |                    | 770.85    |
| Explosive Storage magazine      |         | 44.97          |             |                 |                  |                    | -         |
| Carrier Phase GPS               |         | 899,35         |             | 2.00            | 2.00             |                    | 3,597.40  |
| Surveyor's Kit                  |         | 64.24          |             | 5.00            | 3.00             |                    | 963.60    |
| otal Station Survey Equipment   |         | 835.11         |             | 5.00            | 3.00             |                    | 12,526.65 |
| ord Explorer                    |         | 321.20         |             | 5.00            | 3.00             |                    | 4,818.00  |
| ickup, 4x4, 3/4 Ton             |         | 449.67         |             |                 |                  |                    | .,        |
| Ar Fare - Round Trip            |         | 1,220.54       |             | 1.00            | 6.00             |                    | 7,323.24  |
| Aileage                         |         | 0.40           |             | 50.00           | 6.00             |                    | 120.00    |
| uet                             |         | 1,74           |             | 96.00           | 5.00             |                    | 835.20    |
| odging                          |         | 68.09          |             | 42.00           | 5.00             |                    | 14,298.90 |
| feals and incidentals           |         | 38.55          |             | 43.00           | 5.00             |                    | 8,288.25  |
| roject Consumables              |         | 192.72         |             | 5.00            | 2.00             |                    | 1,927.20  |
| rinting and Binding             |         | 205.56         |             | 1.00            | 2.00             |                    | 411.12    |
| Minning                         |         | 154.17         |             | 3.00            | 1.00             |                    |           |
| Shipping                        |         | 134.17         |             | 3,00            | 1.00             |                    | 462.51    |

963.59

899.35

770.87

500.00

1,541.74

1,927.17

58,559.02

111,654.28

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forests--A

Task 5 Brook Clearance

|                                 |  |                |             | Brash Clearance |                  |                    |   |
|---------------------------------|--|----------------|-------------|-----------------|------------------|--------------------|---|
|                                 |  | Loaded         | Hours       |                 | <b>.</b> , .     | F 1                |   |
| Labor Category                  |  | Hourly<br>Rate | per<br>Week | Number<br>Weeks | Number<br>Poople | Estimated<br>Happs | Amount                                  |
| Program Management I            | -  | 82.06          | AL ÉGIE     | 17 5522         | Lookie           | 114075             | Ameent                                  |
| Project Manager III             |  | 76.92          |             |                 |                  | -                  | -                                       |
| Project Manager II              |  | 66.67          |             |                 |                  | _                  | _                                       |
| Certified Industrial Hygienist  |  | 74.81          |             |                 |                  |                    | _                                       |
| Engineer II                     |  | 76.92          |             |                 |                  | -                  | _                                       |
| Survey Manager                  |  | 56.42          |             |                 |                  | _                  |   |
| Surveyor V                      |  | 46.16          |             |                 |                  | _                  | _                                       |
| dureyor v                       |  | 40.10          |             |                 |                  | -                  |   |
| Quality Control Specialist      | Regular                                  | 47.04          | <b>C</b>    |                 |                  |                    |   |
| Site Safety Officer             | Regular                                  | 47.04          |             |                 |                  | -                  | _                                       |
| UXO Supervisor/Tech VI          | Regular                                  | 53,29          |             |                 |                  | _                  | _                                       |
| UXO Supervisor/Tech V           | Regular                                  | 47.04          |             |                 |                  |                    | _                                       |
| UXO Technician IV               | Regular                                  | 40.49          | 40.00       | 9.25            | 4.00             | 1,480.00           | 59,925.2                                |
| UXO Technician III              | Regular                                  | 34.10          |             |                 | *****            | .,                 |   |
| Laborer II                      | Regular                                  | 28.65          | 40.00       | 9.25            | 24.00            | 8,880.00           | 254,412.0                               |
|                                 |  |                |             |                 |                  |                    | <u>.</u>                                |
| Subtotal - Labo                 | 10                                       |                |             |                 |                  | 10,360.00          | 314,337.2                               |
|                                 |  |                |             |                 |                  |                    |   |
|                                 |  | Loaded         |             | Number          | Number           |                    |   |
| Other Direct Costs              |  | Rate           |             | Weeks           | Units            |                    | Amount                                  |
| FM Radio, Handheld w/ charger   | -  | 25.69          |             | 9.25            | 4.00             |                    | 950.5                                   |
| FM Radio Repeater/Base Station  |  | 44.97          |             | 0.20            | 4.00             |                    | 333.5                                   |
| Cellular Telephone and Service  |  | 64,24          |             |                 |                  |                    | _                                       |
| Video Camera                    |  | 32.12          |             |                 |                  |                    |   |
| Computer                        |  | 96.36          |             |                 |                  |                    |   |
| Brushcutter, power              |  | 96.36          |             | 9.25            | 5.00             |                    | 4,456.6                                 |
| Chainsaw                        |  | 64.24          |             | 9,25            | 5.00             |                    | 2,971.1                                 |
| EQD Demolition Kit              |  | 51,39          |             | -,              | ****             |                    |   |
| Foester Ferrex Ordnance Locator |  | 385.43         |             |                 |                  |                    | _                                       |
| Schonstedt Magnetic Locator     |  | 51.39          |             | 9.25            | 4.00             |                    | 1,901.4                                 |
| Explosive Storage magazine      |  | 44.97          |             |                 | ,,,,,            |                    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Carrier Phase GPS               |  | 699,35         |             |                 |                  |                    | _                                       |
| Surveyor's Kit                  |  | 64.24          |             |                 |                  |                    | _                                       |
| Total Station Survey Equipment  |  | 835,11         |             |                 |                  |                    | _                                       |
| Ford Explorer                   |  | 321.20         |             |                 | ľ                |                    | _                                       |
| Pickup, 4x4, 3/4 Ton            |  | 449.67         |             | 9.25            | 4.00             |                    | 16,637.7                                |
| Air Fare - Round Trip           |  | 1,220.54       |             | 5.25            | 4.00             |                    | ,0,00,.,                                |
| Mileage                         |  | 0.40           |             | 50,00           | 4.00             |                    | 80.0                                    |
| -uel                            |  | 1.74           |             | 128.00          | 9.25             |                    | 2,080.1                                 |
| _odging                         |  | 68.09          |             | 112.00          | 9.25             |                    | 70,541.2                                |
| Meals and Incidentals           |  | 38.55          |             | 113,00          | 9.25             |                    | 40,294.3                                |
| Project Consumables             |  | 192.72         |             | 9.25            | 2.00             |                    | 3,565.3                                 |
| Printing and Binding            |  | 205.56         |             | 7.27            |                  |                    | 3,000.0                                 |
| Shipping                        |  | 154.17         |             |                 |                  |                    |   |
| Site Trailer                    |  | 963.59         |             |                 |                  |                    | _                                       |
| Electrical Hook Up              |  | 1,927.17       |             |                 |                  |                    | _                                       |
| Magazine Fencing                |  | 899.35         |             |                 |                  |                    | _                                       |
| Magazine Mobilization           |  | 770.87         |             |                 |                  |                    | _                                       |
| Donor Explosives                |  | 1,541.74       |             |                 |                  |                    | _                                       |
| Site Remediation                |  | 500.00         |             |                 |                  |                    |   |
| Subtotal - Other Direct Cost    | ts Table                                 |                |             |                 |                  |                    | 143,458.6                               |
|                                 |  |                |             |                 |                  |                    |   |
| Total Estimated Cost            | e la la la la la la la la la la la la la |                |             |                 |                  |                    | 457,795.8                               |

Corps of Engineers Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forests--A

Task 6 Subsurface OE Removal

|                                 |         |                  |       | 25     | mbeurinee ( | UE Kemeval |            |
|---------------------------------|---------|------------------|-------|--------|-------------|------------|------------|
|                                 |         | Londed<br>Housty | Heurs | Number | Number      | Estimated  |            |
| Labor Category                  |         | Rate             | Week  | Weeks  | People      | Hanes      | Amount     |
| Program Management I            |         | 82.06            |       |        | •           | -          |            |
| Project Manager III             |         | 76.92            |       |        |             | _          | _          |
| Project Manager II              |         | 66.67            |       |        |             | _          | _          |
| Certified Industrial Hygienist  |         | 74.81            |       |        |             | _          | -          |
| Engineer II                     |         | 76,92            |       |        |             | _          | _          |
| Survey Manager                  |         | 56.42            |       |        |             | _          | •          |
| Surveyor V                      |         | 46.16            |       |        |             | •          | -          |
|                                 |         |                  |       |        |             |            |            |
| Quality Control Specialist      | Regular | 47.04            |       |        |             | -          | -          |
| Site Safety Officer             | Regular | 47.04            |       |        |             | -          | -          |
| UXO Supervisor/Tech VI          | Regular | 53.29            |       |        |             | -          | -          |
| UXO Supervisor/Tech V           | Regular | 47.04            | 40.00 | 5.75   | 4.00        | 920.00     | 43,276.80  |
| UXO Technician IV               | Regular | 40.49            | 40.00 | 5.75   | 16.00       | 3,680.00   | 149,003.20 |
| UXO Technician III              | Regular | 34.10            |       |        |             | -          | -          |
| Laborer II                      | Regular | 28.65            |       |        |             | -          | -          |
|                                 |         |                  |       |        |             | -          |            |
| Subtotal - Labo                 | or      |                  |       |        |             | 4,600.00   | 192,280.00 |
|                                 |         |                  |       |        |             |            |            |
|                                 |         | Loaded           |       | Number | Number      |            |            |
| Other Direct Costs              |         | Rate             |       | Weeks  | Units       |            | Amount     |
| FM Radio, Handheld w/ charger   |         | 25,69            |       | 5.75   | 4.00        |            | 590,87     |
| FM Radio Repeater/Base Station  |         | 44.97            |       |        |             |            | -          |
| Cellular Telephone and Service  |         | 64,24            |       |        |             |            | _          |
| Video Camera                    |         | 32.12            |       |        |             |            | -          |
| Computer                        |         | 96.36            |       |        |             |            | _          |
| Brushcutter, power              |         | 96,36            |       |        | į           |            |            |
| Chainsaw                        |         | 64.24            |       |        |             |            | _          |
| EOD Demolition Kit              |         | 51.39            |       | 5,75   | 1.00        |            | 295.49     |
| Foester Ferrex Ordnance Locator |         | 385.43           |       |        |             |            | _          |
| Schonstedt Magnetic Locator     |         | 51,39            |       | 5.75   | 20.00       |            | 5,909,85   |
| Explosive Storage magazine      |         | 44.97            |       |        |             |            | -          |
| Carrier Phase GPS               |         | 899.35           |       |        |             |            |            |
| Surveyor's Kit                  |         | 64.24            |       |        |             |            | _          |
| Total Station Survey Equipment  |         | 835,11           |       |        |             |            |            |
| Ford Explorer                   |         | 321.20           |       |        |             |            | _          |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |       | 5.75   | 4.00        |            | 10,342,41  |
| Air Fare - Round Trip           |         | 1,220.54         |       |        |             |            | _          |
| Mileage                         |         | 0.40             |       |        |             |            | -          |
| Fuel                            |         | 1.74             |       | 128.00 | 5.75        |            | 1,280.64   |
| Lodging                         |         | 68.09            |       | 140.00 | 5.75        |            | 54,812.45  |
| Meals and Incidentals           |         | 38.55            |       | 141.00 | 5.75        |            | 31,254.41  |
| Project Consumables             |         | 192.72           |       |        |             |            | -          |
| Printing and Binding            |         | 205.56           |       |        |             |            | -          |
| Shipping                        |         | 154,17           |       |        |             |            | -          |
| Site Trailer                    |         | 963.59           |       |        |             |            | -          |
| Electrical Hook Up              |         | 1,927.17         |       |        |             |            | -          |
| Magazine Fencing                |         | 899.35           |       |        |             |            |            |
| Magazine Mobilization           |         | 770.87           |       |        |             |            |            |
| Donor Explosives                |         | 1,541.74         |       | 1.80   | 1.00        |            | 2,775.13   |
| Site Remediation                |         | 500.00           |       |        |             |            |            |
| Subtotal - Other Direct Cost    | 8       |                  |       |        |             |            | 107,261.25 |
| _                               |         |                  |       |        |             |            |            |
| Total Estimated Cost            | 3       |                  |       |        |             |            | 299,541.25 |

Corps of Engineers

Camp Croft, Spartenburg, S.C. Engineering Design Coat Estimate Natural Brush/Forests--A

Task 7 Seran Turuda

| indifficial establish establish | •       |                  |              |        | Serap 7 | `er=-1e   |          |
|---------------------------------|---------|------------------|--------------|--------|---------|-----------|----------|
|                                 |         | Landed<br>Hourly | Hours<br>per | Number | Number  | Batimated |          |
| Labor Category                  |         | Rate             | Week         | Weeks  | Perple  | Hours     | Amount   |
| Program Management I            |         | 82.06            |              |        |         |           | -        |
| Project Manager III             |         | 76.92            |              |        |         | •         | -        |
| Project Manager II              |         | 66.67            |              |        |         | -         | -        |
| Certified Industrial Hygienist  |         | 74,81            |              |        |         | -         | •        |
| Engineer II                     |         | 76.92            |              |        |         | -         | -        |
| Survey Manager                  |         | 56.42            |              |        |         | •         | -        |
| Surveyor V                      |         | 46.16            |              |        |         | -         | -        |
| Quality Control Specialist      | Regular | 47.04            |              |        |         |           | -        |
| Site Safety Officer             | Regular | 47.04            |              |        |         | _         |          |
| UXO Supervisor/Tech VI          | Regular | 53.29            | 40.00        | 0.50   | 1.00    | 20.00     | 1,085.80 |
| UXO Supervisor/Tech V           | Regular | 47.04            | 40.00        | 0.00   | 1.00    |           | 1,000.00 |
| UXO Technician IV               | Regular | 40.49            | 40.00        | 0.50   | 1.00    | 20.00     | 809.80   |
| UXO Technician III              | Regular | 34.10            | 40.00        | 0.50   | 1.50    | 20.00     | 000.00   |
| Laborer II                      | -       | 28.65            |              |        |         |           | -        |
| Caporer II                      | Regular | 20.00            |              |        |         | -         | -        |
| Subtotal - Labo                 | r       |                  |              |        |         | 40.00     | 1,875.60 |
|                                 |         |                  |              |        |         |           |          |
|                                 |         | Loaded           |              | Number | Number  |           |          |
| Other Direct Costs              |         | Rate             |              | Weeks  | Units   |           | Amount   |
| FM Radio, Handheld w/ charger   |         | 25.69            |              |        |         |           | •        |
| FM Radio Repeater/Base Station  |         | 44.97            |              |        |         |           | -        |
| Cellular Telephone and Service  |         | 64.24            |              |        |         |           | -        |
| Video Camera                    |         | 32.12            |              |        |         |           | -        |
| Computer                        |         | 96.36            |              |        |         |           | -        |
| Brushcutter, power              |         | 96.36            |              |        |         |           | -        |
| Chainsaw                        |         | 64.24            |              |        |         |           | -        |
| EOD Demolition Kit              |         | 51.39            |              |        |         |           | -        |
| Foester Ferrex Ordnance Locator |         | 385,43           |              | Ī      |         |           | -        |
| Schonstedt Magnetic Locator     |         | 51.39            |              |        |         |           | -        |
| Explosive Storage magazine      |         | 44.97            |              |        |         |           | -        |
| Carrier Phase GPS               |         | 899.35           |              |        |         |           | -        |
| Surveyor's Kit                  |         | 64.24            |              |        |         |           | -        |
| Total Station Survey Equipment  |         | 835.11           |              |        |         |           | -        |
| Ford Explorer                   |         | 321.20           |              |        |         |           | -        |
| Pickup, 4x4, 3/4 Ton            |         | 449.67           |              | 1.00   | 0.25    |           | 112.42   |
| Air Fare - Round Trip           |         | 1,220.54         |              |        |         |           | -        |
| Mileage                         |         | 0.40             |              |        |         |           | -        |
| Fuel                            |         | 1.74             |              | 80.00  | 1.00    |           | 139.20   |
| Lodging                         |         | 68.09            |              | 1.00   | 2.00    |           | 136,18   |
| Meals and Incidentals           |         | 38.55            |              | 1.00   | 2.00    |           | 77.10    |
| Project Consumables             |         | 192.72           |              | 1.00   | 1.00    |           | 192.72   |
| Printing and Binding            |         | 205.56           |              |        |         |           | -        |
| Shipping                        |         | 154.17           |              |        |         |           | -        |
| Site Trailer                    |         | 963.59           |              |        |         |           | -        |
| Electrical Hook Up              |         | 1,927.17         |              |        |         |           | -        |
| Magazine Fencing                |         | 899.35           |              |        |         |           | -        |
| Magazine Mobilization           |         | 770,87           |              |        |         |           | •        |
| Donor Explosives                |         | 1,541.74         |              |        |         |           | -        |
| Site Remediation                |         | 500.00           |              | L      |         |           | -        |
| Subtotal - Other Direct Cost    | 8       |                  |              |        |         |           | 657,62   |
| Total Estimated Cost            |         |                  |              |        |         |           | 2,533.22 |
| i oter Estimated Cust           | _       |                  |              |        |         |           | 2,000.22 |

Task 8 Quality Control

|                                       |         |                    |       |        | Quality ( | Control   |           |
|---------------------------------------|---------|--------------------|-------|--------|-----------|-----------|-----------|
|                                       |         | Londed<br>Henrly   | Hours | Number | Namber    | Estimated |           |
| Labor Category                        |         | Rate               | Week  | Weeks  | People    | Hours     | Amoust    |
| Program Management I                  |         | 82.06              |       |        |           | -         | •         |
| Project Manager III                   |         | 76.92              |       |        |           | -         | -         |
| Project Manager II                    |         | 86.87              |       |        |           | •         | •         |
| Certified Industrial Hygienist        |         | 74.61              |       |        |           | -         | -         |
| Engineer II                           |         | 76.92              |       |        |           | •         |           |
| Survey Manager                        |         | 56.42              |       |        |           | -         | -         |
| Surveyor V                            |         | 46.16              |       |        |           | -         | •         |
|                                       |         | i                  |       |        |           |           |           |
| Quality Control Specialist            | Regular | 47.04              | 40.00 | 5.75   | 1.00      | 230.00    | 10,819.20 |
| Site Safety Officer                   | Regular | 47.04              |       |        |           | -         | -         |
| UXO Supervisor/Tech VI                | Regular | 53.29              |       |        |           | -         | -         |
| UXO Supervisor/Tech V                 | Regular | 47.04              |       |        |           | -         | -         |
| UXO Technician IV                     | Regular | 40.49              |       |        |           | <b>-</b>  | <u>-</u>  |
| UXO Technician III                    | Regular | 34.10              | 40.00 | 5.75   | 1.00      | 230.00    | 7,843.00  |
| Laborer II                            | Regular | 28.65              |       |        |           | •         | -         |
| Subtotal - Labo                       |         |                    |       |        |           | 460.00    | 18,662.20 |
| OUDIOIS - LUDO                        |         |                    |       |        |           | 400.00    | 10,002.20 |
|                                       |         |                    |       |        |           |           |           |
|                                       |         | Loaded             |       | Number | Number    |           |           |
| Other Direct Costs                    |         | Rate               |       | Weeks  | Units     |           | Amount    |
| FM Radio, Handheld w/ charger         |         | 25.69              |       | 5.75   | 1.00      |           | 147.72    |
| FM Radio Repeater/Base Station        |         | 44.97              |       |        |           |           | -         |
| Cellular Telephone and Service        |         | 64.24              |       |        |           |           | -         |
| Video Camera                          |         | 32.12              |       |        |           |           | -         |
| Computer                              |         | 96.36              |       |        |           |           | -         |
| Brushcutter, power                    |         | 96.36              |       |        |           |           | -         |
| Chainsaw                              |         | 64.24              |       |        |           |           | -         |
| EOD Demolition Kit                    |         | 51.39              |       |        |           |           | -         |
| Foester Ferrex Ordnance Locator       |         | 385.43             |       |        |           |           | -         |
| Schonstedt Magnetic Locator           |         | 51.39              |       | 5.75   | 2.00      |           | 590.99    |
| Explosive Storage magazine            |         | 44.97              |       |        |           |           | -         |
| Carrier Phase GPS                     |         | 899.35             |       |        |           |           | -         |
| Surveyor's Kit                        |         | 64,24              |       |        |           |           | -         |
| Total Station Survey Equipment        |         | 835.11             |       |        |           |           | -         |
| Ford Explorer<br>Pickup, 4x4, 3/4 Ton |         | 321.20             |       | 5.75   | 1.00      |           | 1,846.90  |
| Air fare - Round Trip                 |         | 449.67<br>1.220.54 |       | 1.00   | 2.00      |           | 2,441.08  |
| Mileage                               |         | 0.40               |       | 50.00  | 2.00      |           | 40.00     |
| Fuel                                  |         | 1.74               |       | 432.00 | 1.00      |           | 751.68    |
| Lodging                               |         | 68.09              |       | 14.00  | 5.75      |           | 5,481.25  |
| Meals and Incidentals                 |         | 38,55              |       | 15.00  | 5.75      |           | 3,324.94  |
| Project Consumables                   |         | 192,72             |       | 5.75   | 1.00      |           | 1,108.14  |
| Printing and Binding                  |         | 205.56             |       |        |           |           | -         |
| Shipping                              |         | 154.17             |       |        |           |           | -         |
| Site Trailer                          |         | 963.59             |       |        |           |           |           |
| Electrical Hook Up                    |         | 1,927.17           |       |        |           |           | -         |
| Magazine Feлcing                      |         | 899.35             |       |        |           |           | •         |
| Magazine Mobilization                 |         | 770.87             |       |        |           |           | -         |
| Donor Explosives                      |         | 1,541.74           |       |        |           |           | -         |
| Site Remediation                      |         | 500.00             |       |        |           |           | -         |
| Subtotal - Other Direct Costs         |         |                    |       |        |           |           | 15,732.70 |
|                                       |         |                    |       |        |           |           |           |
| Total Estimated Costs                 |         |                    |       |        |           |           | 34,394.90 |

Corps of Engineers

Camp Croft, Spartenburg, S.C. Engineering Design Cost Estimate Natural Brush/Forests--A

Task 9

| Laber Category   |                                 | Final Report |          |       |       |       |        |           |
|--|---------------------------------|--------------|----------|-------|-------|-------|--------|-----------|
| Labor Category   |                                 |              | Loaded   | Hours | N 1   | N 1   | F 1    |           |
| Project Managemin  |                                 |              | -        | -     |       |       |        | A         |
| Project Manager  |                                 |              |          |       | _     |       |        |           |
| Project Manager II   |                                 |              |          | 42.00 | 0.25  | 1.00  | 10.50  | 801.03    |
| Certified Industrial Hygienist   74.81   76.92   42.00   1.00   1.00   42.00   3,230.84  | <del>-</del>                    |              |          | 42.00 | 2.00  | 1 00  | B4 00  | 5 600 28  |
| Engineer II 78.92 42.00 1.00 1.00 42.00 3.230.84 Survey Manager 58.42 42.00 2.00 1.00 84.00 4.739.28 Survey Manager 46.18  Quality Control Specielist Regular 47.04  |                                 |              |          | 72.00 | 2.00  | 1.00  | -      | 0,000.20  |
| Survey Manager   |                                 |              |          | 42 NN | 1.00  | 1.00  | 42.00  | 3 230 64  |
| Surveyor V   46.18   | _                               |              |          |       |       |       |        |           |
| Quality Control Specialist   Regular   47,04   |                                 |              |          | ,2.00 |       |       |        | -         |
| Quality Control Specialist   Regular   47.04     -   | Carrayor v                      |              |          |       |       |       |        |           |
| Site Safety Officer   Regular   47,04  | Quality Control Specialist      | Regular      |          |       |       |       | •      | -         |
| UXO Supervisor/Tech V   Regular   53.29     UXO Supervisor/Tech V   Regular   47.04       UXO Technician IV   Regular   34.10  |                                 | _            | 47.04    |       |       |       | -      | _         |
| UXO Supervisor/Tech V   Regular   47.04  | •                               | -            | 53.29    |       |       |       | •      | -         |
| Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Labor   Subtotal - Carbor   Subtotal - Carbor   Subtotal - Subtotal - Carbor   Subtotal -   | •                               | -            | 47.04    |       |       |       | -      | -         |
| Loaded   Number   N   | UXO Technician IV               | -            | 40.49    |       |       |       | -      | -         |
| Content   Coate   Co   | UXO Technician III              | Regular      | 34.10    |       |       |       | -      | -         |
| Collect   Costs   Coaded   Number   N   | Laborer II                      | Regular      | 28.65    |       |       |       | -      | -         |
| Commons  |                                 |              | :        |       |       |       | -      | -         |
| Other Direct Costs   | Subtotal - Labor                |              |          |       |       |       | 220,50 | 14,431.83 |
| Other Direct Costs   |                                 |              |          |       |       |       |        |           |
| Other Direct Costs   |                                 |              |          |       |       |       |        |           |
| FM Radio, Handheld w/ charger FM Radio Repeater/Base Station Celiular Telephone and Service 64.24 Video Camera 32.12 Computer 96.36 Brushcutter, power Chainsaw 64.24 EOD Demolition Kit 51.39 Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator 51.39 Explosive Storage magazine Explosive Storage magazine Explosive Storage magazine A4.97 Carrier Phase GPS 899.35 Surveyor's Kit Ford Explorer 100 Explor |                                 |              |          |       |       |       |        |           |
| FM Radio Repeater/Base Station Cellular Telephone and Service 84.24 Video Camera 32.12 Computer 96.36 Brushcutter, power 96.36 Chainsaw 84.24 EOD Demolition Kit 51.39 Foester Ferrex Ordnance Locator Schonstedt Magnetic Locator Explosive Storage magazine 44.97 Carrier Phase GPS 899.35 Surveyor's Kit 84.24 Total Station Survey Equipment 835.11 Ford Explorer 321.20 Fickup, 4x4, 3/4 Ton Alr Fare - Round Trip 1,220.54 Mileage 0,40 Fuel Lodging 88.09 Meals and Incidentals 192.72 Frinting and Binding 205.56 1,00 2,00 411.12 Shipping 154.17 Site Trailer 983.59 Magazine Mobilization Donor Explosives 1,541.74 Site Remediation Subtotal - Other Direct Costs  44.97   |                                 |              |          |       | Weeks | Units |        | Amount    |
| Cellular Telephone and Service         64.24           Video Camera         32.12           Computer         96.36           Brushcutter, power         96.36           Chainsaw         84.24           EOD Demolition Kit         51.39           Foester Ferrex Ordnance Locator         385.43           Schonstedt Magnetic Locator         51.39           Explosive Storage magazine         44.97           Carrier Phase GPS         899.35           Surveyor's Kit         64.24           Total Station Survey Equipment         835.11           Ford Explorer         321.20           Pickup, 4x4, 3/4 Ton         449.67           Alr Fare - Round Trip         1,220.54           Mileage         0.40           Fuel         1,74           Lodging         68.09           Meals and Incidentals         38.55           Project Consumables         192.72           Printing and Binding         205.56           Sibping         154.17           Site Trailer         963.59           Electrical Hook Up         499.35           Magazine Fencing         899.35           Magazine Fencing         899.35           Magazine F  | •                               |              |          |       |       |       |        | -         |
| Video Camera   32.12   | -                               |              |          |       |       |       |        | -         |
| Substitute   | ·                               |              |          |       |       |       |        | -         |
| Brushcutter, power   96.36   Chainsaw   64.24   CDD Demolition Kit   51.39   Chainsaw   51.39   Chainsaw   51.39   Chainsaw   51.39   Chainsaw   51.39   Chainsaw   51.39   Chainsaw   Ch   |                                 |              | l i      |       |       |       |        | _         |
| Chainsaw   84.24   |                                 |              | F 1      |       |       |       |        | •         |
| EOD Demolition Kit   51.39   | • •                             |              |          |       |       |       |        | -         |
| Schonstedt Magnetic Locator   S1.39   Schonstedt Magnetic Locator   S1.39   Schonstedt Magnetic Locator   S1.39   Schonstedt Magnetic Locator   S1.39   S2.3   |                                 |              |          |       |       |       |        | -         |
| Schonstedt Magnetic Locator  |                                 |              |          |       | i     |       |        |           |
| Explosive Storage magazine   |                                 |              |          |       |       |       |        |           |
| Carrier Phase GPS         899.35         -           Surveyor's Kit         64.24         -           Total Station Survey Equipment         835.11         -           Ford Explorer         321.20         -           Pickup, 4x4, 3/4 Ton         449.67         -           Alr Fare - Round Trip         1,220.54         -           Mileage         0.40         -           Fuel         1.74         -           Lodging         88.09         -           Meals and Incidentals         38.55         -           Project Consumables         192.72         -           Printing and Binding         205.56         1.00         2.00         411.12           Shipping         154.17         -         -           Site Trailer         963.59         -         -           Electrical Hook Up         1,927.17         -         -           Magazine Fencing         899.35         -         -           Magazine Mobilization         770.87         -         -           Donor Explosives         1,541.74         -         -           Site Remediation         500.00         -         -           Subtotal - Other Direc   | <del>-</del>                    |              |          |       | ŀ     |       |        | -         |
| Surveyor's Kit       64.24         Total Station Survey Equipment       835.11         Ford Explorer       321.20         Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56       1.00         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       500.00         Subtotal - Other Direct Costs   | _ <del>_</del> _ <del>_</del> _ |              |          |       |       |       |        | -         |
| Total Station Survey Equipment 835.11 Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton 449.67 Alr Fare - Round Trip 1,220.54 Mileage 0.40 Fuel 1.74 Lodging 88.09 Meals and Incidentals 38.55 Project Consumables 192.72 Printing and Binding 205.56 1.00 2.00 411.12 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation 500.00 Subtotal - Other Direct Costs  |                                 |              | 1 1      |       |       |       |        | _         |
| Ford Explorer 321.20 Pickup, 4x4, 3/4 Ton 449.67 Alr Fare - Round Trip 1,220.54 Mileage 0.40 Fuel 1.74 Lodging 68.09 Meals and Incidentals 38.55 Project Consumables 192.72 Printing and Binding 205.56 1.00 2.00 411.12 Shipping 154.17 Site Trailer 963.59 Electrical Hook Up 1,927.17 Magazine Fencing 899.35 Magazine Mobilization 770.87 Donor Explosives 1,541.74 Site Remediation 500.00 Subtotal - Other Direct Costs  | •                               |              |          |       |       |       |        | -         |
| Pickup, 4x4, 3/4 Ton       449.67         Alr Fare - Round Trip       1,220.54         Mileage       0.40         Fuel       1.74         Lodging       68.09         Meals and Incidentals       38.55         Project Consumables       192.72         Printing and Binding       205.56         Shipping       154.17         Site Trailer       963.59         Electrical Hook Up       1,927.17         Magazine Fencing       899.35         Magazine Mobilization       770.87         Donor Explosives       1,541.74         Site Remediation       500.00         Subtotal - Other Direct Costs       411.12   | * • • •                         |              |          |       |       |       |        | _         |
| Air Fare - Round Trip  Mileage  D.40  Fuel  1.74  Lodging  68.09  Meals and Incidentals  Project Consumables  192.72  Printing and Binding  205.56  1.00  Site Trailer  Electrical Hook Up  Magazine Fencing  Magazine Mobilization  Subtotal - Other Direct Costs  1,220.54  1.74   |                                 |              |          |       |       |       |        | _         |
| Fuel       1.74       -         Lodging       68.09       -         Meals and Incidentals       38.55       -         Project Consumables       192.72       -         Printing and Binding       205.56       1.00       2.00       411.12         Shipping       154.17       -       -         Site Trailer       963.59       -       -         Electrical Hook Up       1,927.17       -       -         Magazine Fencing       899.35       -       -         Magazine Mobilization       770.87       -       -         Donor Explosives       1,541.74       -       -         Site Remediation       500.00       -       411.12  | Air Fare - Round Trip           |              | 1,220.54 |       |       |       |        | -         |
| Lodging       68.09       -         Meals and Incidentals       38.55       -         Project Consumables       192.72       -         Printing and Binding       205.56       1.00       2.00       411.12         Shipping       154.17       -       -         Site Trailer       963.59       -       -         Electrical Hook Up       1,927.17       -       -         Magazine Fencing       899.35       -       -         Magazine Mobilization       770.87       -       -         Donor Explosives       1,541.74       -       -         Site Remediation       500.00       -       -         Subtotal - Other Direct Costs       411.12  | Miloage                         |              | 0.40     |       |       |       |        | -         |
| Meals and Incidentals         38.55         -         -           Project Consumables         192.72         -         -           Printing and Binding         205.56         1.00         2.00         411.12           Shipping         154.17         -         -           Site Trailer         963.59         -         -           Electrical Hook Up         1,927.17         -         -           Magazine Fencing         899.35         -         -           Magazine Mobilization         770.87         -         -           Donor Explosives         1,541.74         -         -           Site Remediation         500.00         -         -           Subtotal - Other Direct Costs         411.12         -  | Fuel                            |              | 1.74     |       | :     |       |        | -         |
| Project Consumables         192.72         -           Printing and Binding         205.56         1.00         2.00         411.12           Shipping         154.17         -         -           Site Trailler         963.59         -         -           Electrical Hook Up         1,927.17         -         -           Magazine Fencing         899.35         -         -           Magazine Mobilization         770.87         -         -           Donor Explosives         1,541.74         -         -           Site Remediation         500.00         -         -           Subtotal - Other Direct Costs         411.12   | Lodging                         |              | 68.09    |       |       |       |        | •         |
| Printing and Binding         205.56         1.00         2.00         411.12           Shipping         154.17         -         -           Site Trailer         963.59         -         -           Electrical Hook Up         1,927.17         -         -           Magazine Fencing         899.35         -         -           Magazine Mobilization         770.87         -         -           Donor Explosives         1,541.74         -         -           Site Remediation         500.00         -         -           Subtotal - Other Direct Costs         411.12   | Meals and incidentals           |              | 38.55    |       |       |       |        | -         |
| Shipping         154.17         -           Site Trailer         963.59         -           Electrical Hook Up         1,927.17         -           Magazine Fencing         899.35         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         500.00         -           Subtotal - Other Direct Costs         411.12  | Project Consumables             |              | 192.72   |       |       |       |        | -         |
| Site Trailer       963.59       -         Electrical Hook Up       1,927.17       -         Magazine Fencing       899.35       -         Magazine Mobilization       770.87       -         Donor Explosives       1,541.74       -         Site Remediation       500.00       -         Subtotal - Other Direct Costs       411.12  | - <del>-</del>                  |              |          |       | 1.00  | 2.00  |        | 411.12    |
| Electrical Hook Up   | 7, *                            |              | L        |       |       |       |        | -         |
| Magazine Fencing         899.35         -           Magazine Mobilization         770.87         -           Donor Explosives         1,541.74         -           Site Remediation         500.00         -           Subtotal - Other Direct Costs         411.12  |                                 |              |          |       |       |       |        | -         |
| Magazine Mobilization770.87-Donor Explosives1,541.74-Site Remediation500.00-Subtotal - Other Direct Costs411.12  | <u>-</u>                        |              |          |       | İ     |       |        | -         |
| Donor Explosives 1,541.74 Site Remediation 500.00  | = <u>*</u>                      |              |          |       |       |       |        | -         |
| Site Remediation 500.00 - Subtotal - Other Direct Costs 411.12   | <u>₹</u>                        |              | 1        |       |       |       |        | -         |
| Subtotal - Other Direct Costs 411.12   | •                               |              |          |       | Ī     |       |        | -         |
|  |                                 |              | 00,00    |       |       |       |        | 444.40    |
| Total Estimated Costs 14,842.95  | Sublotat - Other Direct Costs   |              |          |       |       |       |        | 411.12    |
|  | Total Estimated Costs           |              |          |       |       |       |        | 14,842.95 |

Task 10 Site Remodiation

|                                |         | Sité Memodianan          |                      |                 |                  |                    |          |
|--------------------------------|---------|--------------------------|----------------------|-----------------|------------------|--------------------|----------|
| Labor Category                 |         | Landed<br>Hourly<br>Rate | Hours<br>per<br>Week | Number<br>Weeks | Number<br>People | Estimated<br>Hours | Amount   |
| Program Management I           |         | 82.06                    |                      |                 |                  | -                  | -        |
| Project Manager III            |         | 76.92                    |                      |                 |                  | -                  | -        |
| Project Manager II             |         | 66.67                    |                      |                 |                  | -                  | •        |
| Certified Industrial Hygienist |         | 74,81                    |                      |                 |                  | -                  | -        |
| Engineer II                    |         | 76.92                    |                      |                 |                  | •                  | -        |
| Survey Manager                 |         | 56.42                    |                      |                 |                  | -                  | •        |
| Surveyor V                     |         | 46.16                    |                      |                 |                  | -                  | -        |
|                                |         |                          |                      |                 |                  |                    |          |
| Quality Control Specialist     | Regular | 47.04                    |                      |                 |                  | •                  | -        |
| Site Safety Officer            | Regular | 47.04                    |                      |                 |                  | -                  | -        |
| UXO Supervisor/Tech VI         | Regular | 53.29                    |                      |                 |                  | •                  | -        |
| UXO Supervisor/Tech V          | Regular | 47.04                    |                      |                 |                  | -                  | -        |
| UXO Technician IV              | Regular | 40.49                    |                      |                 |                  | -                  | -        |
| UXO Technician III             | Regular | 34.10                    |                      |                 |                  | -                  | -        |
| Laborer li                     | Regular | 28.65                    |                      |                 |                  | •                  | -        |
|                                | _       |                          |                      |                 |                  | -                  | <u>-</u> |
| Subtotal - L                   | abor    |                          |                      |                 |                  | •                  | -        |

| Subtotal - |  |
|------------|--|
|            |  |
|            |  |
|            |  |
|            |  |

|                                | Loaded   | Number Number |        |
|--------------------------------|----------|---------------|--------|
| Other Direct Costs             | Rate     | Weeks Units   | Amount |
| M Radio, Handheld w/ charger   | 25.69    | -             | -      |
| M Radio Repeater/Base Station  | 44.97    |               | -      |
| Cellular Telephone and Service | 64.24    |               | -      |
| /ideo Camera                   | 32.12    |               | -      |
| Computer                       | 96.36    |               | -      |
| Brushcutter, power             | 96.36    |               | -      |
| Chainsaw                       | 64.24    |               | -      |
| OD Demolition Kit              | 51.39    |               | •      |
| oester Ferrex Ordnance Locator | 385.43   |               | -      |
| Schonstedt Magnetic Locator    | 51,39    |               | -      |
| xplosive Storage magazine      | 44.97    |               | -      |
| Sarrier Phase GPS              | 899.35   |               | -      |
| urveyor's Kit                  | 64.24    |               | -      |
| otal Station Survey Equipment  | 835.11   |               | •      |
| ord Explorer                   | 321.20   |               | -      |
| ickup, 4x4, 3/4 Ton            | 449.67   |               | -      |
| Ir Fare - Round Trip           | 1,220.54 |               |        |
| lileage                        | 0.40     |               | -      |
| uel                            | 1.74     |               | -      |
| odging                         | 68.09    |               | -      |
| feals and incidentals          | 38.55    |               | -      |
| roject Consumables             | 192.72   |               | -      |
| rinting and Binding            | 205.56   |               |        |
| hipping                        | 154.17   |               | -      |
| ite Trailer                    | 963,59   |               | •      |
| lectrical Hook Up              | 1,927.17 |               | +      |
| lagazine Fencing               | 899.35   |               | -      |
| lagazine Mobilization          | 770.87   |               | -      |
| Ponor Explosives               | 1,541.74 |               | -      |
| ite Remediation                | 500.00   | 1.00 1.00     | 500.0  |
| Subtotal - Other Direct Costs  |          |               | 500.0  |
|                                |          |               |        |