

**APPENDIX E**

**FIELD ACTIVITY FORMS**

*This page intentionally left blank.*

## **APPENDIX E.1**

### **SURFACE SOIL SAMPLING SUMMARY FORMS**

*This page intentionally left blank.*





## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA - WEST OF RR

Decision Unit: DV01 Building No. —

Sample Date: 3-18-13 Time: 1700 Weather: RAIN/SLIGHT 30°F

Sample ID: 07955-0317M-0001-50

Duplicate Sample ID: —

Field Sampler: F. ROCHE

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA-WEST OF RR

Decision Unit: DV02 Building No. —

Sample Date: 3-18-13 Time: 1705 Weather: SLEET/RAIN 30'S

Sample ID: 07955-6318M-0001-50

Duplicate Sample ID: —

Field Sampler: F. ROCHA

Depth of Sample: 0-1'

Material: SOIL

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA - E. TRANS. FARM

Decision Unit: DUG Building No. —

Sample Date: 3-19-13 Time: 0950 Weather: CLEAR - 30'S

Sample ID: 07955-0320M-0001-50

Duplicate Sample ID: —

Field Sampler: F. ROCHER

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA- CONC. PAD

Decision Unit: DV05 Building No. —

Sample Date: 3-19-13 Time: 1220 Weather: CLEAR - 20'S

Sample ID: 07955-0321M-000150

Duplicate Sample ID: —

Field Sampler: F. Roehle

Depth of Sample: 0-1'

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: 0006 Building No. —

Sample Date: 3-18-13 Time: 1007 Weather: RAIN - FLEET 20'S

Sample ID: 07955-0182M-0001-50

Duplicate Sample ID: —

Field Sampler: C. Givino

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 07955-0182M-0001-50 1010

RECORDED BY: Jeff H. [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU 07 Building No. —

Sample Date: 3-18-13 Time: 1040 Weather: RAIN-SLEET 30°F

Sample ID: 07955-0184M-0001-50

Duplicate Sample ID: —

Field Sampler: C. GUIDO

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Dmm  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: 0068 Building No. —

Sample Date: 2-18-13 Time: 1415 Weather: SLIGHT RAIN 30'S

Sample ID: 07955-0185M-0001-50

Duplicate Sample ID: —

Field Sampler: C. GUIDO

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: 1109 Building No. —

Sample Date: 3-18-13 Time: 1100 Weather: SUNNY / RAIN 30'S

Sample ID: 07955-0186M-0001-50

Duplicate Sample ID: —

Field Sampler: F. RICHES

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13





## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU10 Building No. —

Sample Date: 3-18-13 Time: 1130 Weather: SUNNY - RAIN 20'S

Sample ID: 07955-0187M-0001-S0

Duplicate Sample ID: —

Field Sampler: F. ROCHER

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 29 CR Site Name: MSA

Decision Unit: DU11 Building No. —

Sample Date: 3-18-13 Time: 1405 Weather: SLIGHT RAIN 30'S

Sample ID: 07955-0188M - 0001-50

Duplicate Sample ID: —

Field Sampler: C. G. V. 120

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU 12 Building No. \_\_\_\_\_

Sample Date: 3-18-12 Time: 1225 Weather: RAW SUNNY -30'S

Sample ID: 07955-0189M-0001-50

Duplicate Sample ID: —

Field Sampler: C. F. V. 100

Depth of Sample: 0-1'

Material: SOIL

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 13 Building No. —

Sample Date: 2-18-13 Time: 1230 Weather: SLIGHT RAIN 30'S

Sample ID: 02956-0190M-0001-50

Duplicate Sample ID: —

Field Sampler: D. COMEAL

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 2-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DC14 Building No. —

Sample Date: 3-18-13 Time: 1430 Weather: RAIN - SLURRY 20'S

Sample ID: 07955-0191M-0001-50

Duplicate Sample ID: —

Field Sampler: D. COMNAV

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU 15 Building No. —

Sample Date: 3-18-13 Time: 1318 Weather: —

Sample ID: 07955-0192M-0001-50

Duplicate Sample ID: —

Field Sampler: D. COMEAU

Depth of Sample: 0-1'

Material: soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU16 Building No. —

Sample Date: 2-18-13 Time: 1530 Weather: RAIN - SLIGHT 70'S

Sample ID: 079SS-0193A-0001-SO

Duplicate Sample ID: —

Field Sampler: C. EVIDO

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: *[Signature]*  
(Signature)

DATE: 3-18-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU 17 Building No. —

Sample Date: 4-9-15 Time: 1000 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-0326M-0001-S0

Duplicate Sample ID: —

Field Sampler: FR, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w/146*
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: *Jeff Norman* DATE: 4-9-15  
(signature)



DATE: 4-9-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU 19 Building No. —

Sample Date: 4-9-15 Time: 1355 Weather: CLOUDY, RAIN, 50'S

Sample ID: 079SS-0328M-000150

Duplicate Sample ID: —

Field Sampler: —

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: Jeff Norman  
(Signature)

DATE: 4-9-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 20 Building No. —

Sample Date: 4-9-15 Time: 1435 Weather: CLEAR, RAIN, 50'S

Sample ID: 079JS-0329M-0001-50

Duplicate Sample ID: —

Field Sampler: MB, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w Hf*
- ☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Roman DATE: 4-9-15  
(signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 21 Building No. —

Sample Date: 4-9-15 Time: 1500 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-00330m-0001-50

Duplicate Sample ID: —

Field Sampler: FL, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)  
☐ MS/MSD Sample Collected  
☐ QA Sample Collected

RECORDED BY: Jeff Roman DATE: 4-9-15  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 22 Building No. —

Sample Date: 4-9-15 Time: 1100 Weather: CLEAR, RAIN, SDS

Sample ID: 07955-0331M-0001-50

Duplicate Sample ID: —

Field Sampler: MB, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/HG
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Donnan DATE: 4-9-15  
(signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 23 Building No. —

Sample Date: 4-9-15 Time: 1130 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-0332M-0001-50

Duplicate Sample ID: —

Field Sampler: EA, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w/HF*
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Norman DATE: 4-9-15  
(signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 24 Building No. —

Sample Date: 4-9-15 Time: 1430 Weather: CLEAR, RAIN, 50'S

Sample ID: 079SS-0333M-0001-50

Duplicate Sample ID: —

Field Sampler: MG, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/HF
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Roman  
(Signature)

DATE: 4-9-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 25 Building No. —

Sample Date: 4-9-15 Time: 1215 Weather: CLEAR, RAIN, SDS

Sample ID: 07955-0334M-0001-50

Duplicate Sample ID: —

Field Sampler: KP, FR

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
W/HG
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Donovan DATE: 4-9-15  
(Signature)





## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 26 Building No. —

Sample Date: 4-9-15 Time: 1102 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-0335M-0001-50

Duplicate Sample ID: —

Field Sampler: FA, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/ H6
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Roman DATE: 4-9-15  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 27 Building No. —

Sample Date: 4-9-15 Time: 0916 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-336M-0001-50

Duplicate Sample ID: —

Field Sampler: MB, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w/ Hg*
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Donnan DATE: 4-9-15  
(signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 28 Building No. —

Sample Date: 4-9-15 Time: 1020 Weather: CLEAR, RAIN, 50'S

Sample ID: 079SS-038/M-0001-50

Duplicate Sample ID: —

Field Sampler: MB, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/Hg
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Roman  
(Signature)

DATE: 4-9-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MSA

Decision Unit: DU 29 Building No. —

Sample Date: 4-9-15 Time: 0950 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-0337M-0001-50

Duplicate Sample ID: —

Field Sampler: FR, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/Hg
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Roman DATE: 4-9-15  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MSA

Decision Unit: DU 30 Building No.       

Sample Date: 4-9-15 Time: 0920 Weather: CLEAR, RAIN, 50'S

Sample ID: 07955-0338M-0001-50

Duplicate Sample ID:       

Field Sampler: EA, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks:       

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/Hg
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Donovan  
(signature)

DATE: 4-9-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORG AREA

Decision Unit: DU 31 Building No. —

Sample Date: 5-12-15 Time: 1720 Weather: PTLY. CLOUDY, 50's

Sample ID: 079SS-0402M-0001-50

Duplicate Sample ID: —

Field Sampler: FR, JD

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 5-12-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE AREA

Decision Unit: DU 32 Building No. —

Sample Date: 5-12-15 Time: 1755 Weather: PTLY. CLOUDY, 50'S

Sample ID: 079SS-0403M-0001-50

Duplicate Sample ID: —

Field Sampler: FR, JD

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: JM Donnan

(Signature)

DATE: 5-12-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORG AREA

Decision Unit: DU 33 Building No. —

Sample Date: 5-12-15 Time: 1650 Weather: PTLY. CLOUDY, 50's

Sample ID: 07955-0404M-0001-50

Duplicate Sample ID: —

Field Sampler: FR, JD

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: JM Donnan

(Signature)

DATE: 5-12-15





## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE AREA

Decision Unit: DU 34 Building No. —

Sample Date: 5-12-15 Time: 1415 Weather: PTLY. CLOUDY, 50'S

Sample ID: 07955-0405AN-0001-50

Duplicate Sample ID: —

Field Sampler: FR, JD

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 5-12-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE AREA

Decision Unit: DU 35 Building No. —

Sample Date: 5-12-15 Time: 1540 Weather: PTLY. CLOUDY, 50'S

Sample ID: 07955-0406M-000150

Duplicate Sample ID: —

Field Sampler: FR, JD

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
+ Hg
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: JM Donnan DATE: 5-12-15  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-079 CR Site Name: RT RD TANK FARM

Decision Unit: DV01 Building No. —

Sample Date: 11-9-12 Time: 1210 Weather: PTLY CLOUDY - 40's

Sample ID: 07955-0003M-0001-50

Duplicate Sample ID: —

Field Sampler: FR

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Damm DATE: 11-9-12  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT RD TANK FARM

Decision Unit: DV02 Building No. —

Sample Date: 11/9/12 Time: 1110 Weather: PTLY CLOUDY - 60'S

Sample ID: 07955-0004M-0001-50

Duplicate Sample ID: + 07955-0005M-0001-50

Field Sampler: FR

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 07950-0004M-0002-50

☐ QA Sample Collected

RECORDED BY: [Signature] Am DATE: 11/9/12  
(Signature)



## FIELD LOG FORM

## SURFACE SOIL ISM SAMPLING

## 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

**USACE Contract No. W91QR-04-D-0039**

## Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: RT PU TANK FARM

Decision Unit: DU 06 Building No. 1

Sample Date: 5-13-15 Time: \_\_\_\_\_ Weather: PTLY CLOUDY, 50'S

Sample ID: 07955-0400M-0001-50

**Duplicate Sample ID:** \_\_\_\_\_

Field Sampler: JDFR

**Depth of Sample:** 0-1ft

**Material:** Soil

Remarks:

### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
+ Hf  
☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)  
☐ MS/MSD Sample Collected  
☐ QA Sample Collected

RECORDED BY: W. J. Roman

(Signature)

DATE: 5-13-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- CR Site Name: RT 80 TANK FARM

Decision Unit: DU 07 Building No. —

Sample Date: 5-13-15 Time: 0940 Weather: PTLY CLOUDY, 50'S

Sample ID: 079SS-0401M-0001-50

Duplicate Sample ID: —

Field Sampler: JD, FL

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 5-13-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: AREA 2

Decision Unit: DV01 Building No. —

Sample Date: 3-25-13 Time: 1645 Weather: SNOW - 30'S

Sample ID: 0795-0053M - 0001-50

Duplicate Sample ID: —

Field Sampler: F. ROACHE

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: *Jeff Van*  
(Signature)

DATE: 3-25-13



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: AREA 2

Decision Unit: DV02 Building No. —

Sample Date: 3-25-13 Time: 1508 Weather: SNOW -30°

Sample ID: 07955-0054m-0001-50

Duplicate Sample ID: —

Field Sampler: F. Roche

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-25-13





## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- CR Site Name: AREA 8 INERT STORAGE

Decision Unit: DV01 Building No. —

Sample Date: 11-7-12 Time: 1325 Weather: PTLY CLOUDY 40'S

Sample ID: 07955-0001M-0001-50

Duplicate Sample ID: —

Field Sampler: FR

Depth of Sample: 0-1'

Material: SOIL

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Dorn DATE: 11-7-12  
(Signature)



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: AREA 8 INHABIT STORAGE

Decision Unit: DV02 Building No. —

Sample Date: 11-7-12 Time: 1230 Weather: PTLY CLOUDY 40'S

Sample ID: 0795-0002M-0001-50

Duplicate Sample ID: —

Field Sampler: FR

Depth of Sample: 0-1'

Material: SOIL

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Ann  
(Signature)

DATE: 11-7-12



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: AT 80 TANK FARM

Decision Unit: DU 03 Building No. —

Sample Date: 4-7-15 Time: 1015 Weather: CLOUDY, 40'S, RAIN

Sample ID: 07955-0348M-0001-50

Duplicate Sample ID: 07955-0349M-0001-50

Field Sampler: KP, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/Hr
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-7-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 80 TANK FARM

Decision Unit: DU 04 Building No. —

Sample Date: 4-6-15 Time: — Weather: CLEAR, 40'S

Sample ID: 07955-0347M-0001-50

Duplicate Sample ID: —

Field Sampler: KP, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-6-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 90 TANK FARM

Decision Unit: DU 05 Building No.       

Sample Date: 4-7-15 Time: 1205 Weather: CLOUDY, 40'S, RAIN

Sample ID: 07955-0350M-0001-50

Duplicate Sample ID:       

Field Sampler: KP, AW

Depth of Sample: 0-1ft

Material: Soil

Remarks:       

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w/HF*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4-7-15



DATE: 4-6-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU 09 Building No. —

Sample Date: 4-8-15 Time: 1020 Weather: RAINY, 50°F

Sample ID: 07955-0369M-000150

Duplicate Sample ID: —

Field Sampler: FR, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w/Ht*
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15





## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU 10 Building No. —

Sample Date: 4-8-15 Time: 1240 Weather: RAIN, 50°

Sample ID: 07955-0370M-0001-50

Duplicate Sample ID: —

Field Sampler: FR, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*w/Hg*  
☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)  
☐ MS/MSD Sample Collected  
☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU 11 Building No. —

Sample Date: 4-8-15 Time: 1150 Weather: RAIN, 50°

Sample ID: 07955-0371M-0001-50

Duplicate Sample ID: —

Field Sampler: FR, KP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/ H<sub>2</sub>
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU 12 Building No. —

Sample Date: 4-8-15 Time: 1100 Weather: RAIN, 50°

Sample ID: 07955-0372M-0001-50

Duplicate Sample ID: —

Field Sampler: KP, FR

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU 13 Building No. —

Sample Date: 4-8-15 Time: 1340 Weather: RAINY, 50°

Sample ID: 07955-0323M-0001-50

Duplicate Sample ID: —

Field Sampler: KP, RN

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/146
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU 14 Building No. —

Sample Date: 4-8-15 Time: 1420 Weather: RAINY, 50°

Sample ID: 07955-0374m

Duplicate Sample ID: —

Field Sampler: FLKP

Depth of Sample: 0-1ft

Material: Soil

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
w/HE
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15

*This page intentionally left blank.*

## **APPENDIX E.2**

### **SURFACE WATER AND SEDIMENT SAMPLING SUMMARY FORMS**

*This page intentionally left blank.*





# FIELD LOG FORM

## SURFACE WATER SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: ORE STORAGE POND

Decision Unit: DU03 Building No. SW-1

Sample Date: 4-1-13 Time: 1430 Weather: 30's cloud

Sample ID: 0795W-0311-0001-SW

Duplicate Sample ID: 0795W-0312-0001-SW

Field Sampler: J. Donovan

Water Depth: 9"

Flow Velocity (fps): 0.2 F/SEC

Temperature: 4.79 C

pH (units): 7.42

ORP (mV): 173.6

Specific Conductance (uS/cm<sup>c</sup>): 110.7

Turbidity (NTU): 2.81

Dissolved Oxygen (mg/L): 11.97

Sample Observations: Odor None

Color: Clear

Other: \_\_\_\_\_

Remarks: \_\_\_\_\_

Equipment: Make: Model: Serial Number:

<u>YSI</u>	<u>650MAS</u>	<u>10J101789</u>
<u>YSI</u>	<u>600XL</u>	<u>0201015</u>
<u>LAETTE</u>	<u>202WTE</u>	<u>11382-</u>
		<u>11382-2811</u>

### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected

☒ QA Sample Collected

0795W-0311-0002-SW

0795W-0313-0001-SW <sup>METALS ONLY</sup> <sup>1500</sup>

RECORDED BY: Jeff D m

DATE: 4-1-13



## FIELD LOG FORM

### SURFACE WATER SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: ORE STONAGE POND

Decision Unit: DU03 Building No. SW-2

Sample Date: 4-1-13 Time: 1500 Weather: 30° - CLEAR

Sample ID: 079SW-0314-0001-SW

Duplicate Sample ID: —

Field Sampler: J. Donovan

Water Depth: 6"

Flow Velocity (fps): 0.2 FT/SEC

Temperature: 4.69 C

pH (units): 7.43

ORP (mV): 181.7

Specific Conductance (uS/cm<sup>2</sup>): 76.2

Turbidity (NTU): 2.01

Dissolved Oxygen (mg/L): 10.72

Sample Observations: Odor NONE

Color: CLAR

Other: —

Remarks: —

Equipment: Make: Model: Serial Number:

ISI

650MDS

10J101789

ISI

6004L

0201015

LAETTE

2020W2

1138-2811

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-1-13



## FIELD LOG FORM

### SURFACE WATER SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: ORR STORAGE POND

Decision Unit: DU03 Building No. SW-3

Sample Date: 4-1-13 Time: 1515 Weather: 30's, cloudy

Sample ID: 079SW-0315-0001-SW

Duplicate Sample ID: —

Field Sampler: J. Donovan

Water Depth: 5"

Flow Velocity (fps): 0.2 FT/SEC

Temperature: 4.62 C

pH (units): 7.31

ORP (mV): 179.4

Specific Conductance (uS/cm<sup>c</sup>): 72.1

Turbidity (NTU): 1.76

Dissolved Oxygen (mg/L): 10.98

Sample Observations: Odor None

Color: Clear

Other: —

Remarks: —

Equipment: Make: Model: Serial Number:

FSI 650mds 10J161789

FSI 6004L 0201015

LAMETTE 2020 W6 1138-2811

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature] DATE: 4-1-13

(Signature)

(Signature)



# FIELD LOG FORM

## SEDIMENT SOIL SAMPLING

## 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

**USACE Contract No. W91QR-04-D-0039**

## Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: ORE STORAGE POND

Decision Unit: DU03 Building No. 5601

Sample Type: ☒ Discrete ☐ Composite

Sample Date: 3-19-12 Time: 1400 Weather: PTLY CLOUDY 30's

Sediment Sample ID: 07950-0305-0001-50

Duplicate Sample ID: 07950-0306-0001-50

Field Samplers: J. Powell

**Subcontractor (Name/Company):** \_\_\_\_\_

Remarks: \_\_\_\_\_

### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 07950-0305-0002-50 1400

☒ QA Sample Collected      07950-0307-0001-50      1400

RECORDED BY: J. J. Donnan  
(Signature)

DATE: 3-19-13

# FIELD LOG FORM

## SEDIMENT SOIL SAMPLING

## 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

**USACE Contract No. W91QR-04-D-0039**

## Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: ORE STORM POND

Decision Unit: DU03 Building No. SED-2

Sample Type: ☒ Discrete ☐ Composite

Sample Date: 4-2-13 Time: 1410 Weather: clear, 30°

Sediment Sample ID: 02950-0308-0001-50

**Duplicate Sample ID:** \_\_\_\_\_

Field Samplers: J. Downer

**Subcontractor (Name/Company):** \_\_\_\_\_

Remarks: \_\_\_\_\_

### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)☐ MS/MSD Sample Collected☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-2-13

DATE: 3-20-13



## FIELD LOG FORM

### SEDIMENT SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: ORE STORAGE POND

Decision Unit: 0003 Building No. SED 4

Sample Type: ☒ Discrete ☐ Composite

Sample Date: 3-19-13 Time: 1435 Weather: PTLY CLOUDY 30'S

Sediment Sample ID: 07950-0310-0001-SD

Duplicate Sample ID: —

Field Samplers: J. DONOVAN

Subcontractor (Name/Company): —

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-19-13



## **APPENDIX E.3**

### **SUBSURFACE SOIL SAMPLING SUMMARY FORMS**

*This page intentionally left blank.*



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Manure

Decision Unit: DUI Building No.        Vertical Geoprobe No. SB-1

Sample Date: 3-21-13 Time: 13:10 PM Weather: 30°F Sunny Cold

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0153M-0001-50 1339

Duplicate Sample ID:       

Field Samplers: TH FL, CG

1-4' <sup>HORIZONTAL IS</sup> → 07958-0151M-0001-50 1481  
Tube A Time 13:15 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

4-7' <sup>HORIZONTAL IS</sup> → 07958-0152M-0001-50 1502  
Tube B Time 13:16 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 29"

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): Densit

Remarks: REFUSAL @ 5' 2 ATIPS (BIK DIST (MATERIAL) 3" SAMPLE)

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ore

Decision Unit: DV 1 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-21-13 Time: 13:33 Weather: 36°F Sunny Cold

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 079SB-0154M-0001-S0 1355

Duplicate Sample ID: —

Field Samplers: TH, PL, LG

Tube A Time 13:36 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 40"

Tube B Time 13:38 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): 27"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): Dunst

Remarks: Recess @ 6.5' Bk 3" material (DUST ORE?)

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-21-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Dec

Decision Unit: DV 1 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-21-13 Time: 13:51 Weather: 30°F Sunny Cold

Subsurface Horizontal Sample ID: 079SB-0155M-0001-50

Duplicate Sample ID: —

Field Samplers: Ut, FR, LG

Tube A Time 13:53 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 46"

Tube B Time 13:56 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 33"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dxasht

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ox

Decision Unit: DV1 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3-21-13 Time: 11:15 pm Weather: 38°F Sunny Cool

Subsurface Horizontal Sample ID: 0795B-0156M-001-50 1505

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 11:18 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): <14"

Tube B Time 11:20 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DLASIT

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-21-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Min One

Decision Unit: DV1 Building No. - Vertical Geoprobe No. SB-5

Sample Date: 3-21-13 Time: 14:27 Weather: 30°F Sunny (01)

Subsurface Horizontal Sample ID: 07958-0157M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR

Tube A Time 14:33 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 38"

Tube B Time 14:35 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 1st 2nd 3rd  
0 0 0

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): PRASIT

Remarks: 3.5' MAX DEPTH REFUSAL 1st NO REC 2nd NO REC 3rd NO REC

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DKE

Decision Unit: D02 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-21-13 Time: 16:45 Weather: Cold 30°F P/L

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 07958-0160M-0001-50 1706

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: WA, FL, LB

HORIZONTAL 1-4' 07958-0158M-0001-50 1703  
Tube A Time 16:48 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

HORIZONTAL 4-7' 07958-0159M-0001-50 1702  
Tube B Time 16:50 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 38"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Danish

Remarks: Refusal @ 6'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Munroe

Decision Unit: DV2 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-21-13 Time: 16:30 Weather: Cold 30°F P/C

Subsurface <sup>VERTICAL</sup> ~~Horizontal~~ Sample ID: 07953-0161M-0001-50

Duplicate Sample ID: —

Field Samplers: TW, FR, CB

Tube A Time 16:33 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 2'

Tube B Time 16:35 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): None

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): JD LHSR

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DUC

Decision Unit: D02 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-21-13 Time: 16:00 Weather: Cld 30° F 9/10

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07950-0162M-0001-50

Duplicate Sample ID: —

Field Samplers: TA, FT, LB

Tube A Time 16:05 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 19"

Tube B Time 16:08 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 12"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Danish

Remarks: Bit out 3" below surface D-Sample REFUSALS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-74 CR Site Name: Wm. J. K.

Decision Unit: DV 2 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3-21-13 Time: 15:46 Weather: Cloud 30°F P/L

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0163M-0001-50

Duplicate Sample ID: —

Field Samplers: DA, FR, CB

Tube A Time 15:43 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 2.0'

Tube B Time 15:45 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): NO REC 2 ATTPS

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): DUNST

Remarks: REFUSAL @ 2 2 ATTPS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-21-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ONE

Decision Unit: DU 2 Building No. — Vertical Geoprobe No. SB-5

Sample Date: 3-2-13 Time: 15:27 Weather: CLOUD 30°F P/c

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 0795B-0164M-0001-50

Duplicate Sample ID: —

Field Samplers: TAFFL, CG

Tube A Time 15:30 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 3.5'

Tube B Time 15:35 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): NO REC <sup>ALL ATMS</sup>

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): DIVASB

Remarks: REFUSAL ALL 3 ATMS 3.5' SS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-2-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE - E, TRANS HP

Decision Unit: DVA Building No.        Vertical Geoprobe No. SB-1

Sample Date: 3-22-13 Time: 11:55 AM Weather: COLD 30°F SNOW

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 0795B-0168M-0001-S0 1234

Duplicate Sample ID:       

Field Samplers: TH, FR, CG  
HORIZONTAL 15 1-4' 0795B-0168M-0001-S0 1227

Tube A Time 12:20 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"  
HORIZONTAL 15 4-7' 0795B-0168M-0001-S0 1228

Tube B Time 12:24 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 32"

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): DEASIT

Remarks:       

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-22-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-75 CR Site Name: MAIN GRC - R. TRANS RD.

Decision Unit: DUA Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-22-13 Time: 11:40 AM Weather: Cold 30 °F Snow

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 0795B-0169M-0001-50 1204

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 11:43 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48" <sup>1st</sup> 2<sup>nd</sup> 46"

Tube B Time 11:45 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): ~~46"~~ No REC 2 ATTPS

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dreast

Remarks: REFUSAL @ 4.5' SS 2 ATTPS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-22-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: WMAINS BULK - E. TRANS P.O.

Decision Unit: DVA Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-22-13 Time: 11:07 Weather: COVERED SNOW

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0170M-0001-50 1141

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 11:30 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 46"

Tube B Time 11:33 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 28"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DEASIT

Remarks: REFUSAL @ 6.5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DECK TRANS RD.

Decision Unit: DUA Building No. — Vertical Geoprobe No. SB-9

Sample Date: 3-22-13 Time: 10:43 AM Weather: Cold 30°F SNOW

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0171M-0001-50 1105

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 10:50 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 47"

Tube B Time 10:55 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 38

Tube C Time 10:58 Interval Drilled (ft bgs): 7-13' Recovery (ft/in): 29"

Subcontractor (Name/Company): Densit

Remarks: Permeable 8.5 ss

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-22-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN CKE - E. TRANS 10

Decision Unit: DNA Building No. — Vertical Geoprobe No. SB-5

Sample Date: 3-22-13 Time: 10:25 AM Weather: Cold 30°F Snow

Subsurface <sup>VERTICAL</sup> Sample ID: 07958-0172-M-0001-S0 1083

Duplicate Sample ID: 07958-0173-0001-S0 1046

Field Samplers: TW, F2, CL

Tube A Time 10:27 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 46"

Tube B Time 10:31 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"

Tube C Time 10:35 Interval Drilled (ft bgs): 7-13'<sup>19.5</sup> Recovery (ft/in): 24"

Subcontractor (Name/Company): DWSON

Remarks: DSB 7-13<sup>19.5</sup> McCL.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-75 CR Site Name: MAIN LINE - CONC PAD

Decision Unit: DV5 Building No. 8.58 am Vertical Geoprobe No. SB-1

Sample Date: 3-22-13 Time: 0918 Weather: Cold 30°F SNOW

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07958-0177M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CG

Tube A Time 8:59 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 9:05 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 32"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Danish

Remarks: 3" SEAM OF BIK OCE w/in 1' - DISCONTINUED

HORIZONTAL SAMPLER 1-4' 07958-0175M-0001-50 0959  
↓ 4-7' 07958-0176M-0001-50 0958

Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-22-13

(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MANURE - CONC PAD

Decision Unit: D05 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-22-13 Time: 8:43 Weather: 30°F CLOUDY SNOW

Subsurface <sup>VERT.</sup> ~~Horizontal~~ Sample ID: 079SB-0128M-0001-S0 0918

Duplicate Sample ID: —

Field Samplers: THFR, LG

Tube A Time 8:45 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 8:46 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): VRASIT

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-22-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OVER - CONC PAD

Decision Unit: DV5 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-22-13 Time: 9:15 AM Weather: Cold 30°F SNOW

Subsurface <sup>VERT.</sup> Horizontal Sample ID: 0795B-0179M-000150 0934

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 9:20 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 9:23 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Densit

Remarks: 17" Surface BIK USE D. SAMPLE

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ave - Conv PAD

Decision Unit: DV 5 Building No.        Vertical Geoprobe No. SB-4

Sample Date: 3-22-13 Time: 9:25 am Weather: Cold 30°F Snow

Subsurface Horizontal Sample ID: 079SB-180M-0001-50

Duplicate Sample ID:       

Field Samplers: TA, FR, CG

Tube A Time 9:30 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 9:35 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): Duxit

Remarks:       

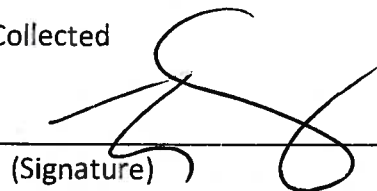
#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:   
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OCE

Decision Unit: DU 5 Building No.      Vertical Geoprobe No. SB-5

Sample Date: 3-22-13 Time: 9:40 AM Weather: CLOUD 30°F SNOW

Subsurface ~~Horizontal~~ <sup>VERT</sup> Sample ID: 0795B-0181M-0001-50 1004

Duplicate Sample ID:     

Field Samplers: TA, FR, CG

Tube A Time 9:45 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 46"

Tube B Time 9:46 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 32"

Tube C Time      Interval Drilled (ft bgs):      Recovery (ft/in):     

Subcontractor (Name/Company): Draht

Remarks: 131k one 3" DS

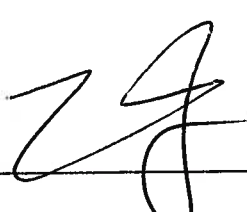
#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:   
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ole Storage

Decision Unit: DV6 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-18-13 Time: 1357 Weather: (CLOUD) 30°F RAIN

Subsurface <sup>Vertical</sup> Sample ID: 07958-0197M-0001-50  
<sup>Horizontal</sup> 1-4' 07958-0195M-0001-50  
4-7' 07958-0196M-0001-50  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH

Tube A Time 13:47 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 13:55 Interval Drilled (ft bgs): 4-7' 4 ATTS REFUSAL AT 4' Recovery (ft/in): 0"  
14:25

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Densit

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OVE STORAGE

Decision Unit: DU 6 Building No. \_\_\_\_\_ Vertical Geoprobe No. 503-2

Sample Date: 3-18-13 Time: 13:07 Weather: 30°F MAIN

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-019871-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH

Tube A Time 13:10 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 49"

Tube B Time 13:15 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): 13"

Tube C Time 13:22  
13:35 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): 13"  
13"

Subcontractor (Name/Company): DASH

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main ORF STORAGE

Decision Unit: DUB Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-18-13 Time: 11:58 AM Weather: COLD 30°F RAIN

Subsurface Horizontal Sample ID: 07950-01990-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TA, JD

Tube A Time 11:58 A Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 12:02 P Interval Drilled (ft bgs): 4-7' Recovery (ft/in): ONLY 12" REFUSAL  
12:07 P 4-7' ONLY 24" " "  
12:15 P 4-7' ONLY 24" " "

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASH

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ore Storage

Decision Unit: DUB Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-18-13 Time: \_\_\_\_\_ Weather: COLD 30°F RAIN

Subsurface Horizontal Sample ID: 07950-0200M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TA SD

Tube A Time 11:38 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 11:42 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 40"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DLA

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13

(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ole Storage

Decision Unit: D06 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-18-13 Time: 12:53 Weather: COLD 30°F RAIN

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07958-0201M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: Tk, JD

Tube A Time 12:53 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 12:56 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 20"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DKASIT

DISCRETE SAMPLERS COLL: 07958-0202-0001-50 0-6"  
Remarks: 07958-0203-0001-50 6-12"

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main O&E Storage

Decision Unit: DUT Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-01

Sample Date: 3-18-13 Time: 15:50 Weather: Cold 30°F Rain

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07958-0207M-0001-50

~~HORIZONTAL~~ <sup>1-4'</sup> 07958-0204M-0001-50  
<sup>4-7'</sup> 07958-0206M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH

Tube A Time 15:51 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 15:56 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 28"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Oxasil

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 07958-0205M-0001-50

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN WLF STORM

Decision Unit: DU7 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-18-13 Time: 16:05 Weather: COLD 30 F RAIN

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07950-0208m-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: WAS

Tube A Time 16:08 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 12"

Tube B Time 16:10 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 25"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): ORAS

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MANW OLE STORAGE

Decision Unit: DUT Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-18-13 Time: 17:55 Weather: Cold 30°F CLOUDY

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0209m-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: NA

Tube A Time 19:00 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 36"

Tube B Time 19:05 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 37"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASIT

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN BULF STORAGE

Decision Unit: DUT Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-18-13 Time: 15:08 Weather: CLOUD 30°F RAIN

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07980-02107-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH

Tube A Time 18:16 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 18:20 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASIT

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13

(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN USE

Decision Unit: DUT Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-18-13 Time: 16:22 Weather: CLOUD 30°F RAIN

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 07950-0212-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: 74

Tube A Time 16:25 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 16:26 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 20"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEARIT

DISCRETE SAMPLES COLL: 07950-0212-0001-50 0-6"  
11-0212-10011 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-18-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Maw Creek

Decision Unit: NUU Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-21-13 Time: 10:56 AM Weather: Cold 30°F P/C

Subsurface <sup>VERTICAL</sup> Sample ID: 07958-0216M-0001-50  
~~Horizontal~~ 1-4' 07958-0214M-0001-50  
4-7' 07958-0215M-0001-50  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TA, FR, CG

Tube A Time 11:00 AM Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 36"

Tube B Time 11:02 AM Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): RAAS II

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-77 CR Site Name: MAN-ONE

Decision Unit: DUB Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-2-13 Time: 11:37 AM Weather: 30°F Cold R/C

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0218M-0001-50

Duplicate Sample ID: 07950-0319M-0001-50

Field Samplers: 74 FR.CG

Tube A Time 11:40A Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 11:43am Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 32"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): D EASIT

Remarks: BLK (maximum) surface 1" D. Sample REFUSE @ 6.5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)

07950-0218M-0001-50



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: main site

Decision Unit: DUG Building No. \_\_\_\_\_ Vertical Geoprobe No. 93-3

Sample Date: 3-21-13 Time: 11:25 am Weather: cloud 30°F plc

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-02190-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CB

Tube A Time 11:27 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 11:31 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 29"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Draht

Remarks: REFUSAL AT 6' SS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-21-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE

Decision Unit: DUG Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-31-13 Time: 10:40 AM Weather: Cold 30°F P/c

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0220M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FL, CG

Tube A Time 10:42 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 10:45 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 32"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Dinasit

Remarks: COAL AT SURFACE 1" D. SAMPLE

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-21-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MANURE

Decision Unit: DUG Building No. \_\_\_\_\_ Vertical Geoprobe No. 56-5

Sample Date: 3-21-13 Time: 11:10 AM Weather: Cold 30°F P/C

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0221A-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CG

Tube A Time 11:13 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 47"

Tube B Time 11:14 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DASIT

Remarks: 3" Blk (maximum) sampler DISCRETE SAMPLES COLL:  
07958-0222-0001-50 0-6"  
07958-0223-0001-50-6-12"  
0223

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: \_\_\_\_\_ DATE: 3-21-13  
(Signature)



# FIELD LOG FORM

## SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main ORE

Decision Unit: DU9 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-19-13 Time: 8:56 Weather: Cloud 30°F Windy

Subsurface <sup>Vertical</sup> Horizontal Sample ID: 07958-0227M-001.50  
HORIZONTAL 1-4' 07958-0224M-001.50  
4-7' 07958-0225M-001.50  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH CG

Tube A Time 9:05 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 9:07 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASH

Remarks: \_\_\_\_\_

### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS  
☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)  
☐ MS/MSD Sample Collected

☒ QA Sample Collected 07958-0226M-001.50

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN O&E

Decision Unit: DU9 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-14-13 Time: 9:28 Weather: COLD 30°F WINDY

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0228M-0001-50

Duplicate Sample ID: —

Field Samplers: TH, CG

Tube A Time 9:35 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 9:38 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRASH

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main ORF

Decision Unit: DUG Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-19-13 Time: 9:46 Weather: COLD 30°F WINDY

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 07950-0229M-0001-50

Duplicate Sample ID: —

Field Samplers: TH CG

Tube A Time 9:52 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 9:54 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 6" 1st 6" 2nd, NRE

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DLASIT

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13

(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main ORE

Decision Unit: DUG Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-19-13 Time: 10.05 Weather: COLD 30°F WINDY

Subsurface <sup>VERTICAL</sup> Sample ID: 07950-0230M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, LG

Tube A Time 10:12 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 10:14 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 18" 15" 2nd 3rd 16" NRE

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DKASH

Remarks: COAL @ 8" BGS SEAM APPROX 13" THICK

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE

Decision Unit: DUG Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-19-13 Time: 9:20 Weather: COLD 30°F WINDY

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0231A-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, CG

Tube A Time 9:21 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 9:24 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 31"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRAST

Remarks: DISCRETE SAMPLES COLL: 07950-0232-0001-50 0-6"  
11-0233-1101 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE

Decision Unit: DV10 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-21-13 Time: 10:03 AM Weather: Cold 30°F P/L SNOW

Subsurface <sup>HORIZONTAL</sup> Sample ID: 07950-0238M-0001-50

~~HORIZONTAL~~ 1-4' 07950-0234M-0001-50

4-7' 07950-0236M-0001-50

Duplicate Sample ID: 1-4' 07950-0150M-0001-50

4-7' 07950-0165M-0001-50

Field Samplers: TH, FL, LG

Tube A Time 10:11 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 10:13 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASH

Remarks: REFUSAL @ 6.5' DUST ORE @ 3" D SAMPLE.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: \_\_\_\_\_ DATE: 3-21-13  
(Signature)

07950-0235M-0001-50 1-4'  
07950-0237M-0001-50 4-7'



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-75 CR Site Name: MAIN CEE

Decision Unit: DU 10 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-21-13 Time: 10:25 AM Weather: Cold 30°F P/C SNOW

Subsurface ~~Horizontal~~ <sup>LOCATION</sup> Sample ID: 07958-0239M-000150

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 10:24 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 40"

Tube B Time 10:33 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): 29"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASIT

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13

(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN CLE

Decision Unit: DU 10 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-21-13 Time: 9:00 A Weather: COLD 30°F P/C SNOW

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07959-0240m-000150

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CG

Tube A Time 9:25 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 9:27 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Densit

Remarks: COAL DUST (?) URG? 1st 3"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN C&E

Decision Unit: DU 10 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-21-13 Time: 9:55 Weather: Cloud 30°F 9/10 snow

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 02950-0241M-0001-10

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, LL

Tube A Time 9:38 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 36"

Tube B Time 9:41 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRAH

Remarks: MAIN DEPTH 6'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-74 CR Site Name: MAIN ORE

Decision Unit: DU 10 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-21-13 Time: 9:48 AM Weather: Cold 30°F P/L SNOW

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07958-0242M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CB

Tube A Time 9:49 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 37"

Tube B Time 9:52 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 29"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Dumail

Remarks: REFUSAL AT 6' SS DISCARD SAMPLES 0-6"  
07958-0243-0001-50 0-6"  
" - 0244 - " 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-21-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-75 CR Site Name: MAINWAY

Decision Unit: DUI Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-20-13 Time: 5:15 pm Weather: COLD 30°F WINDY

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0249M-0001-50  
~~HORIZONTAL~~ 1-4' 07958-0245M-0001-50  
4-7' 07958-0247M-0001-50  
Duplicate Sample ID: 1-4' 07958-0324M-0001-50  
4-7' 07958-0325M-0001-50

Field Samplers: 14, FR, CG

Tube A Time 5:20p Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 5:22p Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 22"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Dynas

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)

1-4' 07958-0246M-0001-50  
4-7' 07958-0248M-0001-50





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ENTR

Decision Unit: 0011 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-20-13 Time: 5:42 Weather: CLOUD 30°F WINDY

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0250m-0001-50

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 5:44 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 5:47 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 29"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Verast

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ARE

Decision Unit: DUI Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-13

Sample Date: 3-20-13 Time: 4:39pm Weather: Cold 30°F WINDY SNOW

Subsurface Horizontal Sample ID: 07958-0251M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CG

Tube A Time 4:41 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 4:42 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 31"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): D L A H

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: IMP W 006

Decision Unit: DUII Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-20-13 Time: 5:50 Weather: Cold 30°F Windy

Subsurface Horizontal Sample ID: 07919-0252m. and 1-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CG

Tube A Time 6:02 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 44"

Tube B Time 6:10 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): 29"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Durst

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN CUL

Decision Unit: DUI1 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-20-13 Time: 4:55pm Weather: COLD 30 F WINDY

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07958-0253M-000150

Duplicate Sample ID: —

Field Samplers: TD, FR, CG

Tube A Time 4:56 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 43"

Tube B Time 4:59 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 26"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Durast

Remarks: # 6 -12" BIL MAGAZINE # DURAST SAMPLES COLL:  
07958-0254-000150 0-6"  
" -0255- " 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DKE

Decision Unit: DV13 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-19-13 Time: 10:30 Weather: COLD 30°F WINDY PC

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0260M-0001-50  
HORIZONTAL 1-4' 07958-0258M-0001-50  
4-7' 07958-0258M-0001-50  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH LG

Tube A Time 10:34 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 10:38 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): REFUSAL 2 ATTS  
N REC

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRASH

Remarks: SS AT 4 REFUSAL NO 4-7' SAMPLE

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DRE

Decision Unit: DV12 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-14 Time: 11:15 Weather: Cloudy 30°F Windy

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 0795A-0261M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH 66

Tube A Time 11:19 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 11:23 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): NREC Acc 3

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRAH

Remarks: WAL SEAM 12" (DUST MATERIAL) REFUSAL AT 4' ANAL 3 ATTPS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-14-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- CR Site Name: MAIN CLE

Decision Unit: DV12 Building No.                      Vertical Geoprobe No. SB-3

Sample Date: 3-19-13 Time: 11:57 AM Weather: LOUD 30°F WINDY P/C

Subsurface <sup>VERTICAL</sup> Sample ID: 0791B-0262M-0001.50

Duplicate Sample ID:                     

Field Samplers: 7H, 6C

Tube A Time 11:59 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 30"

Tube B Time 12:04 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): NREC 2 ATTS  
3.5' 3.5'  
0" 0"

Tube C Time              Interval Drilled (ft bgs):              Recovery (ft/in):             

Subcontractor (Name/Company): DEAST

Remarks: REFUSAL @ 3.5' NO REC 2 ATTS

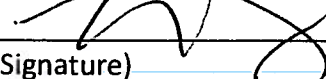
#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ONE

Decision Unit: DV12 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-84

Sample Date: 3-15-13 Time: 11:35 AM Weather: CLOUD 30F WINDY P/C

Subsurface <sup>Vertical</sup> Sample ID: 07950-02630-000150

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, CB

Tube A Time 11:38 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 11:41 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASH

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13

(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: MAIN DKE

Decision Unit: DV12 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-19-13 Time: 10:50 Weather: COLD 30°F WINDY PL

Subsurface Horizontal Sample ID: 07950-0264M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH 66

Tube A Time 10:53 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 10:55 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 12" <sup>1st</sup> 13" <sup>2nd</sup> 11" <sup>3rd</sup> NEEC

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): IRASIT

Remarks: REFUSAL @ 5' 3 ATTS SS IN ALL

DISCRETE SAMPLES COLL:  
07950-0265-0001-50 0-6"  
11-0266-11 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-19-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OLE

Decision Unit: DUIB Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-20-13 Time: 8:58 am Weather: CLOUD 30°F 9/c

Subsurface Sample ID: 07950-0271M-0001-50  
VERTICAL  
HORIZONTAL 1-4' 07950-0267M-0001-50  
4-7' 07950-0269M-0001-50  
Duplicate Sample ID: 1-4' 07950-0322M-0001-50  
4-7' 07950-0323M-0001-50

Field Samplers: WAL

Tube A Time 8:59 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 9:30 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASIS

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)

1-4' 07950-0268M-0001-50  
4-7' 07950-0270M-0001-50



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Dec

Decision Unit: DV13 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-20-13 Time: 9:45 Weather: Cold 30°F P/C

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0272m-000150

Duplicate Sample ID: —

Field Samplers: THG

Tube A Time 9:48 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 9:52 Interval Drilled (ft bgs): 4'-7' Recovery (ft/in): at 0" 2<sup>nd</sup> 3<sup>rd</sup> REC STUCK

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASIT

Remarks: Refusal at 4' M.C.B. STUCK on 2<sup>nd</sup> ATTP No Rec.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-74 CR Site Name: MAIN ORE

Decision Unit: DV 13 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-A3

Sample Date: 3-20-13 Time: 11:22 Weather: COLD 30°F Plc

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07958-0227M-0001-50

Duplicate Sample ID: —

Field Samplers: TH, LG

Tube A Time 11:27 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 11:30 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Densit

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ore

Decision Unit: D013 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-AB4

Sample Date: 3-20-13 Time: 11:04 Weather: Cold 30°F

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 07958-0274M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, LV

Tube A Time 11:10 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 11:15 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 28"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Drasht

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN CLE

Decision Unit: DV13 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-20-13 Time: 10:34 Weather: Cloudy 30°F

Subsurface <sup>Vertical</sup> ~~Horizontal~~ Sample ID: 07958-0275M-0001-10

Duplicate Sample ID: —

Field Samplers: TA, LB

Tube A Time 10.48 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 38"

Tube B Time 10.55 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Densit

Remarks: Refusal @ 6' DISCRETE SAMPLER COLL:  
07958-0276-0001-50 0-6"  
11 -0277- 11 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAINSTREET

Decision Unit: DIV 14 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-21

Sample Date: 3-20-13 Time: 2:55 Weather: COLD 30°F WINDY/SNOW

Subsurface <sup>VERTICAL</sup> Sample ID: 07958-0280m-0001-50  
~~Horizontal~~ H02120M14 1-4' 07958-0278m-0001-50  
4-7' 07958-0279m-0001-10  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CG

Tube A Time 3:15p Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 3:20p Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 26"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Deasht

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-74 CR Site Name: MAIN OLE

Decision Unit: DVIA Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-20-13 Time: 2:24 pm Weather: COLD 30° F WINDY / SNOW

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 07958-0281 m-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FE, LV

Tube A Time 2:26 p Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40''

Tube B Time 2:30 p Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 12''

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Deasit

Remarks: Remain 6.5

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-20-13





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main One

Decision Unit: DV14 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-20-13 Time: 3:59P Weather: Cloud 30°F Windy Snow

Subsurface <sup>VENTURE</sup> Horizontal Sample ID: 07958-02821-001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TA FR, CC

Tube A Time 4:02 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 4:05 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 32"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Densit

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DKE

Decision Unit: DUI4 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-20-13 Time: 4:22 Weather: Cold 30°F Windy / PC

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07958-0283M-0001-50

Duplicate Sample ID: —

Field Samplers: TH, FR, CV

Tube A Time 4:33 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 42"

Tube B Time 4:35 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): NO REC

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Danish

Remarks: Refruse at 4' 2 ATTOS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OXF

Decision Unit: DUI4 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-20-13 Time: 3:47 Weather: COLD 30°F WINDY SNOW

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07958-0284M-0001-S0

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TR, FR, CV

Tube A Time 3:53 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 3:55 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 15" 2ND  
NEE

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): \_\_\_\_\_

Remarks: REFUSE AT 4' 2 METERS DISCRETE SAMPLES COLL:  
07958-0285-0001-S0 0-6"  
" - 0286- " 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE

Decision Unit: D015 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-19-13 Time: 2:15 Weather: COLD 30°F WINDY SNOW

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 0795B-0289M-0001.50  
1-4' 0795B-0287M-0001.50  
4-7' 0795B-0288M-0001.50  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, LG

Tube A Time 2:20 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 2:24 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 26"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASH

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN DR

Decision Unit: N15 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-2

Sample Date: 3-15-13 Time: 4:03 Weather: CLOUDY 30°F WINDY / PC w/ SNOW

Subsurface <sup>Vertical</sup> Sample ID: 02958-0290A-0001-50

Duplicate Sample ID: —

Field Samplers: TH CG

Tube A Time 4:10 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 38"

Tube B Time 4:12 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 28"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Deasht

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-15-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORE

Decision Unit: DU15 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-19-13 Time: 3:30 Weather: COLD 30°F WINDY SNOW

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 02918-0291M-0001-50

Duplicate Sample ID: —

Field Samplers: TH, CG

Tube A Time 3:35 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 30"

Tube B Time 3:40 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): NREL 2 ATTS

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRAH

Remarks: REFUSAL AT 4' ZATTS NREL

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OLE

Decision Unit: D15 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-19-13 Time: 2:40 Weather: COLD 30°F WINDY SNOW

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 079SB-0292M-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, CB

Tube A Time 2:42 3:22 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 3:25 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): N2EL 3 ATTOS

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRAST

Remarks: REFUSE AT 4' 3 ATTOS (LOSE AT SURFACE)

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13

(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN OCE

Decision Unit: DU15 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-19-13 Time: 2:25 P.M. Weather: (BLD) 30°F WINDY SNOW

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0293M-0001-50

Duplicate Sample ID: —

Field Samplers: TH, CG

Tube A Time 2:32 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 30"

Tube B Time 2:35 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 31"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRASH

Remarks: DISCRETE SAMPLES COLL:  
07958-0294-0001-50 0-6"  
" - 0295 - " 6-12"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-19-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-74 CR Site Name: MAIN BRE

Decision Unit: DUI6 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-1

Sample Date: 3-20-13 Time: 12:15 Weather: COLD 36°F WINDY SNV

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07958-0298M-0001-50  
~~HORIZONTAL~~ 1-4' 07958-0296M-0001-50  
4-2' 07958-0297M-0001-50  
Duplicate Sample ID: 11, FR, CV

Field Samplers: \_\_\_\_\_

Tube A Time 12:16 Interval Drilled (ft bgs) : 1-9' Recovery (ft/in): 44"

Tube B Time 12:22 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): 32"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DEASIT

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-20-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MAIN ORC STORAGE

Decision Unit: 16 Building No. 1 Vertical Geoprobe No. SB-2

Sample Date: 3-20-13 Time: 1441 Weather: COLD 30' RAIN/SNOW

Subsurface <sup>VERTICAL</sup> Sample ID: 0795B-0299M-0001-50

Duplicate Sample ID: —

Field Samplers: TH, IR, CG

Tube A Time 1438 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 32"

Tube B Time 1439 Interval Drilled (ft bgs): 4-6.5' Recovery (ft/in): 41"

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): FRONTZ

Remarks: REVAL @ 6.5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 3-20-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main OLE

Decision Unit: DUIb Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-3

Sample Date: 3-20-13 Time: 2:04 pm Weather: COLD 30°F WINDY / SNOW

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 27950-0200m-0001-50

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TIT, FR, CL

Tube A Time 2:08 pm Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 2:12 pm Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Densit

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-71 CR Site Name: Main DRE

Decision Unit: DUIB Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-4

Sample Date: 3-20-13 Time: 1:50pm Weather: COLD 30°F C w/snow

Subsurface <sup>LOCATION</sup> Horizontal Sample ID: 07958-0301M-001-10

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TA, FL, LB

Tube A Time 1:52 Interval Drilled (ft bgs) : 1-4' Recovery (ft/in): 42"

Tube B Time 1:56 Interval Drilled (ft bgs) : 4-7' Recovery (ft/in): NO REC

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRASIT

Remarks: 3 ATLAS Refused at 4' max DEPTH Hit SS.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-30-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: MMNBLF

Decision Unit: DV16 Building No. \_\_\_\_\_ Vertical Geoprobe No. SB-5

Sample Date: 3-20-13 Time: 11:50 Weather: Cold 30°F windy D/C

Subsurface Horizontal Sample ID: 07958-03020-0001-10

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, CL

Tube A Time 11:52 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 11:54 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): N I R E C REFUSAL AT 4' <sup>ALL 3 ATTPS</sup>

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DRASIT

Remarks: REFUSAL AT 4' ALL 3 ATTPS TO 4' <sup>DISCARD SAMPLES COLL?</sup>  
07958-0303-0001-10 0-6  
11-0304- " 6-12

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-20-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: R78t TF

Decision Unit: DUI Building No. — Vertical Geoprobe No. SB-1

Sample Date: 3-27-13 Time: 11:52 Weather: Cold - 30°F P/C

Subsurface Horizontal Sample ID: 0795B-0037M-000150 1216  
VERT. 1-4' 0795B-0033M-000150 1242  
HORIZONTAL 4-7' 0795B-0035M-000150 1244  
Duplicate Sample ID: —

Field Samplers: TH, PR, RW

Tube A Time 11:53 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 46"

Tube B Time 11:55 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 32"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Drash

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: 79 DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP79 CR Site Name: PT 80 TF

Decision Unit: DUI Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-27-13 Time: 12:02 Weather: Cold 36°F P/c

Subsurface <sup>VERT</sup> Horizontal Sample ID: 0795B-0038M-0001-50 1200

Duplicate Sample ID: —

Field Samplers: TH, FL, RW

Tube A Time 12:03 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 46"

Tube B Time 12:05 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 33"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dynasty

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 0795B-0038M-0002-50 1200

☐ QA Sample Collected

RECORDED BY:  DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: B1 80 TS

Decision Unit: D1 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-27-13 Time: 12:08 Weather: Cold P/c 30's

Subsurface <sup>VERT.</sup> Horizontal Sample ID: 0795B-0039M-0001-S0 1229

Duplicate Sample ID: —

Field Samplers: TH, FK, RW

Tube A Time 12:10 Interval Drilled (ftbgs) : 1-4' Recovery (ft/in): 45"

Tube B Time 12:12 Interval Drilled (ftbgs) : 4-7' Recovery (ft/in): 36"

Tube C Time — Interval Drilled (ftbgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): BRASH

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 0795B-0039M-0002-S0 1229

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-27-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 80 TF

Decision Unit: D01 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3-27-13 Time: 12:14 p Weather: Cloud 30°F Plc

Subsurface ~~Horizontal~~ <sup>VERT</sup> Sample ID: 07958-0040M-0001-50 1228

Duplicate Sample ID: —

Field Samplers: TH, FR, LW

Tube A Time 12:24 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 44"

Tube B Time 12:25 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 31"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Densit

Remarks: —

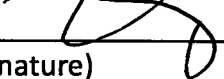
#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-7A CR Site Name: BT 80 TF Dv1 SB-5

Decision Unit: DUI Building No.        Vertical Geoprobe No. SB-5

Sample Date: 3-27-13 Time: 12:27 Weather: Cold 30°F P/C

Subsurface Horizontal Sample ID: B795A-0041M-001-50 1247

Duplicate Sample ID:       

Field Samplers: TU, FR, 2W

Tube A Time 12:32 Interval Drilled (ftbgs): 1-9' Recovery (ft/in): 48"

Tube B Time 12:36 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 38"

Tube C Time        Interval Drilled (ftbgs):        Recovery (ft/in):       

Subcontractor (Name/Company): Densit

Remarks:       

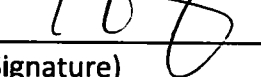
#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: BT 80 Tank Farm

Decision Unit: D02 Building No. — Vertical Geoprobe No. SB-1

Sample Date: 3-27-13 Time: 11:38 Weather: Cold Sunny &

Subsurface <sup>VERT</sup> Horizontal Sample ID: 0795B-0046M-0001-50 1146  
<sup>HORIZONTAL</sup> 1-4' 0795B-0042M-0001-50 1144  
4-7' 0795B-0044M-0001-50 1150

Duplicate Sample ID: —

Field Samplers: T<sub>1</sub>, FL, RW

Tube A Time 11:42 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 46"

Tube B Time 11:43 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 38"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dresser

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-27-13  
(Signature)

COLL AT 1-4' 0795B-0049M-0001-50 1144



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 80 TANK FARM

Decision Unit: DV 2 Building No.        Vertical Geoprobe No. SB-2

Sample Date: 3-27-13 Time: 11:08 AM Weather: Cold Sunny - C

<sup>VENT</sup>  
Subsurface Horizontal Sample ID: 07958-0047M-0001-50 1123

Duplicate Sample ID:       

Field Samplers: TH, FK, RW

Tube A Time 11:12 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 46'

Tube B Time 11:15 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 36"

Tube C Time        Interval Drilled (ftbgs):        Recovery (ft/in):       

Subcontractor (Name/Company): Dynasid

Remarks:       

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 07958-0047M-0002-50

☐ QA Sample Collected

RECORDED BY:  DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 80 Tank Farm

Decision Unit: DU 2 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-27-13 Time: 10:55 Weather: Cloudy Sunny - C

Subsurface <sup>VERT.</sup> Horizontal Sample ID: 0795B-0048M-0001-50 1112

Duplicate Sample ID: —

Field Samplers: T1, FR, RW

Tube A Time 11:02 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 22"

Tube B Time 11:05 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 36"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Densit

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 80 TANK PUMP

Decision Unit: DV2 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3-27-13 Time: 10:42 Weather: Cold Sunny - C

Subsurface <sup>VERT</sup> Horizontal Sample ID: 07958-0050M-0001-50 1100

Duplicate Sample ID: —

Field Samplers: TH, FR, RW

Tube A Time 10:52 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 36"

Tube B Time 10:53 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 36"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Deasit

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: Jeff Damm DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: RT 80 TANK FARM

Decision Unit: DU 2 Building No. — Vertical Geoprobe No. SB-5

Sample Date: 3-27-13 Time: 10:17 Weather: Cold Sunny - C

Subsurface <sup>VERT</sup> Horizontal Sample ID: 079SB-0051M-0001-50 1041

DSB 7-13' 079SB-0052-0001-50 1041  
Duplicate Sample ID: \_\_\_\_\_

Field Samplers: TH, FR, RW

Tube A Time 10:25 Interval Drilled (ftbgs): 1-4' Recovery (ft/in): 48"

Tube B Time 10:30 Interval Drilled (ftbgs): 4-7' Recovery (ft/in): 40"

Tube C Time 10:35 Interval Drilled (ftbgs): 7-13' Recovery (ft/in): 47"

Subcontractor (Name/Company): Dxasit

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-27-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Ore Pile Storage Area, Area 2

Decision Unit: DU61 Building No.        Vertical Geoprobe No. SB01

Sample Date: 3/28/13 Time: 1522 Weather: 40°, Overcast, W 5-10

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 0795B-0060M-0001-S0  
HORIZONTAL 1-4' 0795B-0055M-0001-S0

Duplicate Sample ID: 4-7' 0795B-0058M-0001-S0

Field Samplers: DUP 1-4' 0795B-0057M-0001-S0  
DUP 4-7' 0795B-0059M-0001-S0

FR, JS  
Tube A Time        Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 42

Tube B Time        Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 36

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): FRINTZ

Remarks:       

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 0795B-0056M-0001-S0 1-4' METALS ONLY

RECORDED BY: [Signature] DATE: 3/28/13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Ordnance Pile Storage Area, Area 2

Decision Unit: D161 Building No. — Vertical Geoprobe No. SB 02

Sample Date: 3/28/13 Time: 1512 Weather: 40°, Overcast, W 5-7

Subsurface <sup>VERT</sup> Sample ID: 07950-0061M-0001-10 <sup>1512</sup>  
~~Horizontal~~ <sub>1525</sub>

Duplicate Sample ID: —

Field Samplers: FR, JS

Tube A Time 1451 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 48"

Tube B Time 1455 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 36"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRONT2

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 07950-0061M-0002-80

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Old Pile Storage Area, Area 2

Decision Unit: Duol Building No. — Vertical Geoprobe No. SB03

Sample Date: 3/28/13 Time: — Weather: 40°, Overcast, WS-7

Subsurface <sup>VERT</sup> Horizontal Sample ID: 07958-0062M-0001-50 1850

Duplicate Sample ID: —

Field Samplers: EA, JS

Tube A Time 1435 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48

Tube B Time 1439 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRONT 2

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Ore Pile Storage Area; Area 2

Decision Unit: DU01 Building No.        Vertical Geoprobe No. SB04

Sample Date: 3/28/13 Time: 1437 Weather: 40°, Overcast, W 5-7

Subsurface <sup>VERT</sup>Horizontal Sample ID: 07958-0063M-0001-50

Duplicate Sample ID:       

Field Samplers: FL, JS

Tube A Time 1424 Interval Drilled (ft bgs) : 1-4 Recovery (ft/in): 48"

Tube B Time 1428 Interval Drilled (ft bgs) : 4-7 Recovery (ft/in): 36"

Tube C Time        Interval Drilled (ft bgs) :        Recovery (ft/in):       

Subcontractor (Name/Company): FRONTZ

Remarks:       

#### Laboratory Analysis:

- ☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: Jeff Ann DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Orn Pile Storage Area, Area 2

Decision Unit: Du 01 Building No.        Vertical Geoprobe No. SB05

Sample Date: 3/28/13 Time: 1400 Weather: 35°, Overcast, WSW 7, trace snow

Subsurface Horizontal <sup>VERT.</sup> Sample ID: 079SB-0064M-0001-50

Duplicate Sample ID: DSB 7-13' 079SB-0075-0001-50 1421

Field Samplers: JT, FR

Tube A Time 1156 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 48"

Tube B Time 1404 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 46"

Tube C Time 1410 Interval Drilled (ft bgs): 7-10 Recovery (ft/in): 36"  
1411 10-13 36"

Subcontractor (Name/Company):       

Remarks: Rig down for ~ 2 hrs

#### Laboratory Analysis:

☐ VOC ☒ <sup>DSB SAMPLE</sup> TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-71 CR Site Name: Ore Pile Storage Area, Area 2

Decision Unit: DU02 Building No. — Vertical Geoprobe No. SB01

Sample Date: 3/28/12 Time: — Weather: 40°, Overcast, W 5-10

Subsurface Horizontal Sample ID: 0795B-0069M-0001-50 1815  
VERT.  
HORIZONTAL 1-4' 0795B-0068M-0001-50 1711

Duplicate Sample ID: 4-7' 0795B-0069M-0001-50 1712  
DUP-1-4' 0795B-0068M-0001-50 1711

Field Samplers: 4-7' 0795B-0068M-0001-50 1712

Tube A Time 1601 Interval Drilled (ft/bgs): 1-4 Recovery (ft/in): 48"

Tube B Time 1605 Interval Drilled (ft/bgs): 4-7 Recovery (ft/in): 38"

Tube C Time — Interval Drilled (ft/bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRANZ

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: D. [Signature] DATE: 3/28/12  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: Ore Pile Storage Area, Area 2

Decision Unit: Du 2 Building No.        Vertical Geoprobe No. SB-2

Sample Date: 3/28/13 Time: 1630 Weather: 40° Overcast, W 7-10

Subsurface <sup>VERT.</sup> Horizontal Sample ID: 079SB-0070M-0001-S0

Duplicate Sample ID:       

Field Samplers: JS, FR

Tube A Time 1616 Interval Drilled (ftbgs): 1-4 Recovery (ft/in): 48"

Tube B Time 1619 Interval Drilled (ftbgs): 4-7 Recovery (ft/in): 36"

Tube C Time        Interval Drilled (ftbgs):        Recovery (ft/in):       

Subcontractor (Name/Company): FRONTZ

Remarks:       

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 079SB-0070M-0002-S0 1630

☐ QA Sample Collected

RECORDED BY: D. [Signature] DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Ore Pile Storage Area, Area 2

Decision Unit: DU-2 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3/28/13 Time: 1634 Weather: 40°, Overcast, W 7-10

Subsurface <sup>VERT.</sup> Horizontal Sample ID: 0795A-0071M-0001-50

Duplicate Sample ID: —

Field Samplers: JJ, JN

Tube A Time 1627 Interval Drilled (ft/bgs): 1-4 Recovery (ft/in): 48'

Tube B Time 1631 Interval Drilled (ft/bgs): 4-7 Recovery (ft/in): 39"

Tube C Time — Interval Drilled (ft/bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FREARTZ

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: D. [Signature] DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: One Pile Storage Area, Area 2

Decision Unit: DU-2 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3/28/13 Time: 1652 Weather: 40°, Overcast, W N 7-12

Subsurface Horizontal Sample ID: <sup>VISIT</sup> 0795B-0072M-0001-50

Duplicate Sample ID: —

Field Samplers: FR, JS

Tube A Time 1639 Interval Drilled (ftbgs): 1-4 Recovery (ft/in): 48"

Tube B Time 1642 Interval Drilled (ftbgs): 4-7 Recovery (ft/in): 33"

Tube C Time — Interval Drilled (ftbgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTIER

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 0795B-0072M-0002-50 1653

☒ QA Sample Collected 0795B-0073M-0001-50 1653

RECORDED BY:  DATE: 3/28/13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: Ore Pile Storage Area, Area 2

Decision Unit: DU 2 Building No. — Vertical Geoprobe No. SB-5

Sample Date: 3/28/13 Time: 1720 Weather: 40°, Overcast, W N 7-12

Subsurface <sup>VERT.</sup> ~~Horizontal~~ Sample ID: 0795A-0074M-0001-50

Duplicate Sample ID: —

Field Samplers: JS, FA

Tube A Time 1701 Interval Drilled (ftbgs) : 1-4 Recovery (ft/in): 46"

Tube B Time 1706 Interval Drilled (ftbgs) : 4-7 Recovery (ft/in): 32"

Tube C Time — Interval Drilled (ftbgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTIER

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: D. [Signature] DATE: 3/28/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-71 CR Site Name: CC79 LL3 TSA

Decision Unit: DUI Building No. 1 Vertical Geoprobe No. SB-1

Sample Date: 3-22-13 Time: 3:30pm Weather: Cold 30°F C

Subsurface <sup>VERTICAL</sup> ~~Horizontal~~ Sample ID: 0795B-0081M-0001-50 1550

~~Horizontal~~ 1-4' 0795B-0076M-0001-50 1637

Duplicate Sample ID: 4-7' 0795B-0079M-0001-50 1642

1-4' 0795B-0077M-0001-50 1637

Field Samplers: TH, FR, CB DUPLICATE 4-7' 0795B-0080M-0001-50 1642

Tube A Time 3:36 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 3:39 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 38"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Olasid

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-22-13

(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: CC79 U3 TSA

Decision Unit: DU1 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-22-13 Time: 3:40 p Weather: Cold 30°F

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07950-0082M-000150 1559

Duplicate Sample ID: —

Field Samplers: 1A, FR, CB

Tube A Time 3:52 p Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 46"

Tube B Time 3:55 p Interval Drilled (ft bgs): A-7' Recovery (ft/in): 38"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DRASID

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 07950-0082M-0002-50 1559

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: CC 79 LL3 T5A

Decision Unit: DUI Building No. - Vertical Geoprobe No. SB-3

Sample Date: 3-22-13 Time: 4:20 pm Weather: Cold 30°F C

Subsurface <sup>VERTICAL</sup> ~~Horizontal~~ Sample ID: 079SB-0683A-0001-50 1833

Duplicate Sample ID: -

Field Samplers: TA, FR, LG

Tube A Time 4:22 pm Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 4:25 pm Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"

Tube C Time - Interval Drilled (ft bgs): - Recovery (ft/in): -

Subcontractor (Name/Company): Densit

Remarks: -

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: MS  
(Signature)

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: 0079 LL3 TSA

Decision Unit: DU1 Building No. ~ Vertical Geoprobe No. 513-A

Sample Date: 3-22-13 Time: 4:28 pm Weather: Cloud 30°F C

Subsurface <sup>VERTICAL</sup> Sample ID: 07950-0084M-000150 1645

Duplicate Sample ID: ~

Field Samplers: NA, FR, LG

Tube A Time 4:31 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 46"

Tube B Time 4:35 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"

Tube C Time ~ Interval Drilled (ft bgs): ~ Recovery (ft/in): ~

Subcontractor (Name/Company): ~

Remarks: DUST

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: TS  
(Signature)

DATE: 3-22-13

DATE: 3-22-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA 803

Decision Unit: DU-2 Building No. 803 Vertical Geoprobe No. SB-51

Sample Date: 3-23-13 Time: 13:15 Weather: Cold MID 30's

Subsurface <sup>VERTICAL</sup> Sample ID: 079SB-0090M-0001-50 1334

<sup>HORIZONTAL</sup> 1-4' 079SB-0086M-0001-50 1400

Duplicate Sample ID: 4-7' 079SB-0088M-0001-50 1409

1-4' 079SB-0087M-0001-50 1400

Field Samplers: W.F.K. 4-7' 079SB-0084M-0001-50 1409 (OVP of 4-7')

Tube A Time 13:16 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 13:22 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 38"

Tube C Time 13:25 Interval Drilled (ft bgs): 7-8' Recovery (ft/in): 14"

Subcontractor (Name/Company): North

Remarks: Com at Surface 8" - Return C 8'

DSB COLL 7-13' 079SB-0096-0001-50 1335

Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 079SB-0094M-0001-50 COLL 1-4' 1406

RECORDED BY: [Signature] DATE: 3-23-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA 803

Decision Unit: DU-2 Building No. 803 Vertical Geoprobe No. SB-2

Sample Date: 3-23-13 Time: 12:51p Weather: Cold mid 50°F

Subsurface ~~Horizontal~~ <sup>Vertical</sup> Sample ID: 07953-0091M-0001-50 1319

Duplicate Sample ID:                     

Field Samplers: TH, FR, CG

Tube A Time 12:58p Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 13:02p Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 33"

Tube C Time 13:06p Interval Drilled (ft bgs): 7-13 Recovery (ft/in): 18"

Subcontractor (Name/Company): DRASH

Remarks: GRAVEL CONC @ SURFACE REFUSAL @ 8'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 07953-0091-0002-80 1319

gme QA Sample Collected

RECORDED BY: [Signature] DATE: 3-23-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: U3 TSA 1803

Decision Unit: DU 2 Building No. 803 Vertical Geoprobe No. SB-3

Sample Date: 3-23-13 Time: 13:38 Weather: Cold Wind 30°F

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 0795B-0092M-0001-50 1356

Duplicate Sample ID:                     

Field Samplers: Tilt, FR, LG

Tube A Time 13:42 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 13:47 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 28"

Tube C Time            Interval Drilled (ft bgs):            Recovery (ft/in):           

Subcontractor (Name/Company): Danish

Remarks: (bar at surface 8' recover @ 6.5')

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:  DATE: 3-23-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: 113 TSA 803

Decision Unit: D10-2 Building No. 803 Vertical Geoprobe No. 5B-4

Sample Date: 3-23-13 Time: 13:50 Weather: Cold MIN 30°F

Subsurface <sup>VERTICAL</sup> Sample ID: 07950-0093M-0001-50 1406

Duplicate Sample ID: —

Field Samplers: TJH, FR, LG

Tube A Time 13:54 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 36"

Tube B Time 14:01 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Densit

Remarks: Core at Surface 8' - Retrieval @ 6.5' ss

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-23-13



# FIELD LOG FORM

## SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: U3 TSW 803

Decision Unit: DU2 Building No. 803 Vertical Geoprobe No. SB-X5

Sample Date: 3-23-13 Time: 12:40 D Weather: CLOUDY MID 30'S F

Subsurface <sup>VERTICAL</sup> Sample ID: 0795A-0095M-0001-50 1256

Duplicate Sample ID: RF824 7-13' 0795B-0096-0001-50 1256

Field Samplers: 7" 1" FL, LG

Tube A Time 12:43p Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 12:45p Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 36"  
REPAIR @ 7' 1st

Tube C Time 12:47p Interval Drilled (ft bgs): 7-13' Recovery (ft/in): NO REC  
5' 2nd

Subcontractor (Name/Company): Densit

Remarks: Repair at 7' 2nd NO DISB. Gravel (2) at surface

### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: (Signature)

DATE: 3-23-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 3 TSA Building 803

Decision Unit: DU3 Building No. 803 Vertical Geoprobe No. SB-1

Sample Date: 3-23-13 Time: 14:14 Weather: Cold 36°; MW Sunny

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 0795B-0102M-0001-50 1428

<sup>HORIZONTAL</sup> 1-4' 0795B-0097M-0001-50 0936

Duplicate Sample ID: 4-7' 0795B-0100M-0001-50 0938

1-4' 0795B-0098M-0001-50 0936

Field Samplers: 24, FR. LG 4-7' 0795B-0101M-0001-50 0938 DUP OF 4-7'

Tube A Time 14:22 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 14:25 Interval Drilled (ft bgs): 4-8' Recovery (ft/in): 32"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): DUALK

Remarks: Recess 6.0' SS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 1-4' 0795B-0099M-0001-50 0947

RECORDED BY: [Signature] DATE: 3-23-13  
(Signature)

DATE: 3-25-13

DATE: 3-23-15

DATE: 3-23-13





## FIELD LOG FORM

## SUBSURFACE SOIL ISM SAMPLING

## 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

**USACE Contract No. W91OR-04-D-0039**

## Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA Building 603

Decision Unit: DV3 Building No. 803 Vertical Geoprobe No. SB-5

Sample Date: 3-23-13 Time: 14:30 Weather: Cold Min 30°Fs Sunny

Subsurface <sup>Vertical</sup> Horizontal Sample ID: 0795B-0106m-0001-50 1456

Duplicate Sample ID: \_\_\_\_\_

Field Samplers: Th, FR, CG

Tube A Time 14:33 Interval Drilled (ft bgs): 1-3.5' Recovery (ft/in): 42"

Tube B Time \_\_\_\_\_ Interval Drilled (ft bgs) : ~~4-7~~ <sup>1</sup>/<sub>2</sub> Recovery (ft/in): <sup>1st</sup> <sup>2nd</sup> <sup>3rd</sup>  
~~10 REC~~ ~~ND~~ ~~REC~~ ~~ND~~ ~~REC~~

**Tube C** Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): Drasht

Remarks: Recessed p. 3.5' ss 3 units 3.5', 3.0', 2.5'

### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: \_\_\_\_\_ DATE: 3-23-13  
(Signature)

(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: 113 TSA

Decision Unit: DV4 Building No. — Vertical Geoprobe No. SB-1

Sample Date: 3-23-13 Time: 8:31 am Weather: Cold mid 30's F

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 0795B-0112M-0001-50 0856

<sup>HORIZONTAL</sup> 1-4' 0795B-0107M-0001-50 1120

Duplicate Sample ID: 4-7' 0795B-0110M-0001-50 1137

1-4' 0795B-0108M-0001-50 1120

Field Samplers: TH, FL, CG, 4-7' DUP 0795B-0111M-0001-50 1137

Tube A Time 8:38 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 43"

Tube B Time 8:40 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 1st 12" 2nd 12"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Densit

Remarks: REFUSAL @ 5' 2 WAYS.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 0795B-0109M-0001-50 METALS

RECORDED BY: [Signature] DATE: 3-23-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: DNA Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-23-13 Time: 9:55 am Weather: Cloudy HWD 30°F

Subsurface <sup>VERTICAL</sup> ~~Horizontal~~ Sample ID: 079SB-0113M-0001.50 0925

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 9:02 A Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 40"

Tube B Time 9:05 A Interval Drilled (ft bgs): 4-8' Recovery (ft/in): 8" 13" <sup>1st 2nd</sup>

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Delaith

Remarks: Recovery @ 5' 1st ATTW 4.5' 2nd 5.0'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: (Signature) DATE: 3-23-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- CR Site Name: LL3 TSA

Decision Unit: DVA Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-23-13 Time: 9:30 AM Weather: Cold MID 30s

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 079SB-0114M-0001-50 1031

Duplicate Sample ID: —

Field Samplers: TH FL LG

Tube A Time 10:10 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 48"

Tube B Time 10:13 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 38"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DEASH

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-23-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSN

Decision Unit: DV4 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3-23-13 Time: 10:25 AM Weather: COLD MID 30°F

Subsurface <sup>Venue</sup> Horizontal Sample ID: 079SA-0116M-0001-50 1055

Duplicate Sample ID: —

Field Samplers: TH, FR, LG

Tube A Time 10:29 Interval Drilled (ft bgs): 1-43' Recovery (ft/in): 36"

Tube B Time 10:31 Interval Drilled (ft bgs): 4-71 Recovery (ft/in): NO REC <sup>1st 2nd 3rd</sup> →

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DK&S

Remarks: Reveal 3 FT

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-23-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LU3 TSN

Decision Unit: DV 4 Building No. — Vertical Geoprobe No. SB-5

Sample Date: 3-23-13 Time: 10:58 am Weather: COLD MID 30°F

Subsurface <sup>VERTICAL</sup> Horizontal Sample ID: 07958-0117M-000450 11/6

Duplicate Sample ID: —

Field Samplers: TH, FR, CG

Tube A Time 11:10 am Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 11:13 am Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 13"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dumas

Remarks: REFUSED @ 5' 2 ATTS MAX DEPTH 5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-23-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: U3 TSW

Decision Unit: DUS Building No.        Vertical Geoprobe No. S13-1

Sample Date: 3-25-13 Time: 15:57 Weather: Cloud 30°F Sunny

Subsurface <sup>Vertical</sup> Sample ID: 07958-0121M-0001-50

Duplicate Sample ID: 07958-0120M-0001-50 DUP ON 4-7 FT  
4-7' 07958-0120M-0001-50 1112

Field Samplers: TH, PK, CB

Tube A Time 15:59 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 3' - 3"  
REFUSE

Tube B Time 16:02 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): NO REC

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): Dynasty

Remarks: HORIZONTAL 1-4' 07958-0118M-0001-50 1108  
4-7' 07958-0119M-0001-50 1112

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-25-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: DUS Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-25-13 Time: 9:40 Weather: Cold Snow

Subsurface <sup>Vertical</sup> ~~Horizontal~~ Sample ID: 07958-0122M-0001-50 0958

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 9:44 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 9:46 Interval Drilled (ft bgs): 1-5' Recovery (ft/in): 72"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Drasht

Remarks: GRAVEL 8' Bkt SURFACE (bottom @ 5' SS)

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-25-13





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: DUS Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-25-13 Time: 10:00 am Weather: Cold snow

Subsurface Horizontal Sample ID: 0795B-0123M-000150 1015

Duplicate Sample ID: —

Field Samplers: TA FR

Tube A Time 10:04 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time 10:06 Interval Drilled (ft bgs): 4-8' Recovery (ft/in): 10"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dress

Remarks: Let us see @ 5' SS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-25-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-71 CR Site Name: U3 TSA

Decision Unit: DUS Building No. — Vertical Geoprobe No. SB-4

Sample Date: 3-25-13 Time: 11:00 am Weather: cold 30°F SNOW

Subsurface Horizontal Sample ID: 07950-0124M-0001-50 116

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 11:04 A Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44'

Tube B Time 11:06 A Interval Drilled (ft bgs): 4-8.5' Recovery (ft/in): 24.5"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DEAST

Remarks: 6.5' Refusal @ SS

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-25-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: U3 TSA

Decision Unit: DUG Building No. — Vertical Geoprobe No. SB-5

Sample Date: 3-25-13 Time: 10:24 Weather: Cold Snow

Subsurface Horizontal Sample ID: 07950-0125M-000150 1053

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 10:30 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 10:32 Interval Drilled (ft bgs): 4-5' Recovery (ft/in): 12"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Drush

Remarks: Removal @ 5' SS

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-25-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: LL3 TSA

Decision Unit: D44 Building No. — Vertical Geoprobe No. 531

Sample Date: 3/25/13 Time: — Weather: 35° Snow

Subsurface <sup>VIB-RM</sup> ~~Horizontal~~ Sample ID: 07950-0129M-0001-50 1725

<sup>HORIZONTAL</sup> 1-4' 07950-0126M-0001-50 1728

Duplicate Sample ID: 4-7 07950-0128M-0001-50 1720

1-4' 07950-0127M-0001-50 1728

Field Samplers: 114, 112

Tube A Time 1720 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 46"

Tube B Time 1722 Interval Drilled (ft bgs): 4-8 Recovery (ft/in): 8"

Tube C Time 1725 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 48" <sup>Re / used</sup>  
4-7 <sup>@ 4'3"</sup>

Subcontractor (Name/Company): —

Remarks: Refused @ 5', 2-4 empty; Slog gravel @ Surface

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: Jeff D...

(Signature)

DATE: 3/25/13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: LL3 TSA

Decision Unit: Du6 Building No. — Vertical Geoprobe No. SR2

Sample Date: 3/25/13 Time: 1715 Weather: 35° Snow

Subsurface <sup>Vertical</sup> ~~Horizontal~~ Sample ID: 07950-0130m-0001-50 1735

Duplicate Sample ID: —

Field Samplers: TH, PR

Tube A Time 1708 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 38"

Tube B Time 1713 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 0

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): —

Remarks: Refusal @ <sup>35'</sup> 4'; Blue-gray slag gravel and Black slag gravel

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3/25/12



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: LL3 TSA

Decision Unit: DUL Building No. — Vertical Geoprobe No. SB 3

Sample Date: 3/25/13 Time: 1655 Weather: 35° Snow

Subsurface <sup>Vertical</sup> ~~Horizontal~~ Sample ID: 07958-0131M-0001-50 1658

Duplicate Sample ID: —

Field Samplers: TH, PL

Tube A Time 1650 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42 90'

Tube B Time 1655 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 0

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTZ

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-7A CR Site Name: LL3 TSA

Decision Unit: DUG Building No. — Vertical Geoprobe No. SBY

Sample Date: 3/25/13 Time: 1650 Weather: 35° Snow

Subsurface <sup>VERTICAL</sup> ~~Horizontal~~ Sample ID: 07958-0182M-000150 1652

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 1640 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 1643 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 0

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTIER

Remarks: Refusal @ 4', Slag gravel @ surface

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: Jeff Nunn DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: DUG Building No. — Vertical Geoprobe No. SB 5

Sample Date: 3/25/13 Time: 1705 Weather: 35° Snow

Subsurface <sup>Vertical</sup> ~~Horizontal~~ Sample ID: 0795B-0133M-000150 1710

Duplicate Sample ID: —

Field Samplers: TH, PL

Tube A Time 1626 Interval Drilled (ft bgs): 0-4' Recovery (ft/in): 44"

Tube B Time 1630 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 0

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): —

Remarks: Refusal @ 4'; Slag gravel @ surface

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: Jeff Am DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: D47 Building No. 1547 Vertical Geoprobe No. SB1

Sample Date: 3/25/13 Time: 1628 Weather: 35° Snow

Subsurface <sup>VERTICAL</sup> Sample ID: 0795B-0136M-0001-50 1631  
<sup>HORIZONTAL</sup> 1-4' 0795B-0134M-0001-50 1630  
Duplicate Sample ID: 4-7' 0795B-0135M-0001-50 1632

Field Samplers: TH, RA

Tube A Time 1615 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44"

Tube B Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Subcontractor (Name/Company): FRONTL

Remarks: Revised @ 4', 2 attempts

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/25/13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: DU7 Building No. 1547 Vertical Geoprobe No. SB2

Sample Date: 3/25/13 Time: 1600 Weather: 35° Snow

Subsurface ~~Horizontal~~ Sample ID: 07958-0137M-0001-50 1601

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 1547 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 1555 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 20"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): —

Remarks: Refract @ 6'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: DU7 Building No. — Vertical Geoprobe No. SB3

Sample Date: 3/25/13 Time: 1534 Weather: 35° Snow

Subsurface <sup>Vertical</sup> ~~Horizontal~~ Sample ID: 07958-0138M-0001-50 1545

Duplicate Sample ID: —

Field Samplers: TL, FL

Tube A Time 1534 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 1534 Interval Drilled (ft bgs): 8-4-5 Recovery (ft/in): 18"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Frank

Remarks: Relux @ 5.5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: LL3 TSA

Decision Unit: DU 7 Building No. — Vertical Geoprobe No. SB 4

Sample Date: 3/25/13 Time: 1511 Weather: 30° Snow

Subsurface <sup>Vertical</sup> Horizontal Sample ID: 07958-0139M-0001-50 1529

Duplicate Sample ID: —

Field Samplers: TL, PL

Tube A Time 1511 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 42"

Tube B Time 1521 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 0'

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTZ

Remarks: Relus. @ 4' 2 hrs.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 07958-0140M-0001-50 1531

RECORDED BY: [Signature] DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: Du7 Building No. — Vertical Geoprobe No. 58-55

Sample Date: 3-25-13 Time: 1500 Weather: 30°F, Snow

Subsurface <sup>VERTICAL</sup> Sample ID: 07958-0141M-000150 1512

Duplicate Sample ID: —

Field Samplers: TH, FN

Tube A Time 1452 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 36"

Tube B Time 1457 Interval Drilled (ft bgs): 4-5' Recovery (ft/in): 10'

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Dressh

Remarks: Rebasal @ 5', slgy gravel @ surface

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3/25/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3 TSA

Decision Unit: D08 Building No.      Vertical Geoprobe No. SB-1

Sample Date: 3-25-13 Time: 1430 Weather: Cold 30°F Snow

Subsurface ~~Horizontal~~ Sample ID: REARICAL 0795B-0144M-000150 1430

Duplicate Sample ID: HORIZONTAL 1-4' 0795B-0142M-000150 1430  
4-7' 0795B-0143M-000150 1430

Field Samplers: 2H FR

Tube A Time 1427 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 38"

Tube B Time 1440 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): Reluct

Tube C Time      Interval Drilled (ft bgs):      Recovery (ft/in):     

Subcontractor (Name/Company): Dumas

Remarks: Reluct @ 4'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 3-25-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-75 CR Site Name: 1L3 TSA

Decision Unit: D08 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 3-25-13 Time: 12:00 Weather: Cold Snow

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 07958-0145M-0001-50 1415

Duplicate Sample ID: —

Field Samplers: 7H FR

Tube A Time 1A:02 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 38"

Tube B Time 1A:05 Interval Drilled (ft bgs): 4-7.5' Recovery (ft/in): 15"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Deasit

Remarks: RETRIAL 5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-25-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: U3 TSA DUG

Decision Unit: DUG Building No. — Vertical Geoprobe No. SB-3

Sample Date: 3-25-13 Time: 11:21 Weather: Cold 30°F snow

Subsurface <sup>VERTICAL</sup> Sample ID: 07958-0146M-0001-50 1130

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 11:23 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 46"

Tube B Time 11:25 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 28"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): DRASIT

Remarks: 6.5 REFUSAL @ 55

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-25-13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: LL3 TSA

Decision Unit: DUG Building No. — Vertical Geoprobe No. SB -4

Sample Date: 3-25-13 Time: 11:35 Weather: Cold 30°F SNOW

Subsurface <sup>VERTICAL</sup> ~~HORIZONTAL~~ Sample ID: 07950-0147M-0001-50 1145

Duplicate Sample ID: —

Field Samplers: TH, FR

Tube A Time 11:36 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 44'

Tube B Time 11:38 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 29"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): D Kasik

Remarks: REFUSE @ 6.5 ss

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 3-25-13  
(Signature)





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: 113 TSA

Decision Unit: D08 Building No.        Vertical Geoprobe No. SB-5

Sample Date: 3-25-13 Time: 11:53 Weather: Cold 30°F Snow

Subsurface <sup>VERTICAL</sup> ~~Horizontal~~ Sample ID: 079SB-0148M-0001-50 1210

Duplicate Sample ID:       

Field Samplers: TV, FR

Tube A Time 11:56 Interval Drilled (ft bgs): 1-4' Recovery (ft/in): 14"

Tube B Time 11:59 Interval Drilled (ft bgs): 4-7' Recovery (ft/in): 30"

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Subcontractor (Name/Company): DRAST

Remarks: 4.5' 1st SS 12" 2nd forism @ 55


#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:   
(Signature)

DATE: 3-25-13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: CC79 - Area 8

Decision Unit: 01 Building No. — Vertical Geoprobe No. SB1

Sample Date: 4/1/13 Time: 1008 Weather: 34°, Mostly Cldy, 11.5 snow

Subsurface <sup>Vert</sup> Horizontal Sample ID: 0079SB-14M <sup>1-4' 00</sup> 0079SB-10M <sup>1-4' 00</sup> 0079SB-12M QA

Duplicate Sample ID: <sup>1-4' 00</sup> 0079SB-11M 0001-50 <sup>4-7 00</sup> 0079SB-13M

Field Samplers: FR, JS

Tube A Time 1002 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 24"

Tube B Time 1006 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 24"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected 0079SB-0012M-0001-50 1007

RECORDED BY: [Signature] DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8

Decision Unit: Q101 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 4/1/13 Time: 1004 Weather: 35°, Overcast, Snow, 5-10

Subsurface Horizontal Sample ID: 0079SB-15M, MS/MSD

Duplicate Sample ID: —

Field Samplers: JS, FR

Tube A Time 0946 Interval Drilled (ft bgs) : 1-4 Recovery (ft/in): 36"

Tube B Time 0950 Interval Drilled (ft bgs) : 4-7 Recovery (ft/in): 35"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTZ

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 079SB-0015-000250

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4/1/13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8 inert Storage

Decision Unit: 01 Building No. — Vertical Geoprobe No. SB3

Sample Date: 4/1/13 Time: 0915 Weather: 34°, Overcast, Snow, W 5-10

Vertical  
~~Subsurface~~ Horizontal Sample ID: CC-RVAAP-0016A-0001-50  
SB

Duplicate Sample ID: —

Field Samplers: F. Roche, J. Scott

Tube A Time 0901 Interval Drilled (ft bgs) : 1-4 Recovery (ft/in): 43"

Tube B Time 0903 Interval Drilled (ft bgs) : 4-7 Recovery (ft/in): 48"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): Fronitz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4/1/13



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8

Decision Unit: D401 Building No. — Vertical Geoprobe No. SB-4

Sample Date: 4/1/13 Time: 0624 Weather: 34°, Overcast, 1/2 snow, W 5-10

Subsurface <sup>Vertical</sup> Horizontal Sample ID: 0079SB-0018m-0001-50

Duplicate Sample ID: 0079SB-18m-QA ; 0079SB-20m-FD

Field Samplers: ER, JS

Tube A Time 0913 Interval Drilled (ft bgs) : 1-4 Recovery (ft/in): 45"

Tube B Time 0916 Interval Drilled (ft bgs) : 4-7 Recovery (ft/in): 45"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): Fritz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☒ QA Sample Collected FULL SUITE ON QA 0079SB-0018m-0001-50

RECORDED BY: [Signature] DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8

Decision Unit: DU 01 Building No. — Vertical Geoprobe No. SB5

Sample Date: 4/1/13 Time: 0945 Weather: 35°, Pt. cldy, lt snow

Subsurface <sup>Vert.</sup> Horizontal Sample ID: 0079 SB-19A-0001-50

Duplicate Sample ID: —

Field Samplers: FR, JS

Tube A Time 0634 Interval Drilled (ft bgs) : 1-4 Recovery (ft/in): 38"

Tube B Time 0938 Interval Drilled (ft bgs) : 4-7 Recovery (ft/in): 46"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected
- ☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8

Decision Unit: DU2 Building No. — Vertical Geoprobe No. SB2 SB1

Sample Date: 4/1/13 Time: 1129 Weather: 35°, Mostly cldy W 5-10

Subsurface ~~Horizontal~~ Sample ID: VERTICAL 0079SB-24 ms/msd, 1-4 0021m 4-7 22m  
0074SB-24 ms/msd, 0079SB-24, 0074SB-24

Duplicate Sample ID: 1-4 Dcp 1-4 QA 4-7 Dcp  
0079SB-11, 0079SB-12 0079SB-23m

Field Samplers: TR, JS, RW

Tube A Time 1118 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 40"

Tube B Time 1122 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 48"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 0079SB-0024m-0002-50

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8, Tank Storage

Decision Unit: DU02 Building No. — Vertical Geoprobe No. SB-2

Sample Date: 4/1/13 Time: 1023 Weather: 35°, Mostly Cldy, W 5-10

Subsurface <sup>Vert</sup> Horizontal Sample ID: 0079SB-2<sup>60</sup> m-0001-50

Duplicate Sample ID: —

Field Samplers: FR, JS

Tube A Time 1012 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 36"

Tube B Time 1018 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 48"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Frantz

Remarks: —


#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY:   
(Signature)

DATE: 4/1/13





## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8

Decision Unit: D12 Building No. — Vertical Geoprobe No. SB-3

Sample Date: 4/1/13 Time: 10223 Weather: 35°, Mstly Cky, Lt. Snow, 5-10

Subsurface <sup>Vertical</sup> Horizontal Sample ID: 0074513-26<sup>m</sup>-1037<sup>000150</sup>

Duplicate Sample ID: —

Field Samplers: FR, RW

Tube A Time 1028 Interval Drilled (ft bgs) : 1-4 Recovery (ft/in): 45"

Tube B Time 1031 Interval Drilled (ft bgs) : 4-7 Recovery (ft/in): 48"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Subcontractor (Name/Company): FRONTZ

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: D. G. [Signature] DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Area 8

Decision Unit: Du 2 Building No. — Vertical Geoprobe No. 334

Sample Date: 4/1/13 Time: 1112 Weather: 35°, Mostly cldy, W 5-10

Subsurface Horizontal Sample ID: 0679513-0027M-0001-50

Duplicate Sample ID: —

Field Samplers: FR, JS, RLW

Tube A Time 1103 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 34"

Tube B Time 1107 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 46"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: [Signature] DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL ISM SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-74 CR Site Name: Area 8

Decision Unit: DU2 Building No. — Vertical Geoprobe No. SB5

Sample Date: 4/1/13 Time: — Weather: 35°, Mostly Cloudy, W5-10

Subsurface ~~Horizontal~~ <sup>VERTICAL</sup> Sample ID: 06795B-28m<sup>1-7</sup> 06745B-29m<sup>7-13</sup> 7-13 WSB

Duplicate Sample ID: —

Field Samplers: FR, JS, RW

Tube A Time 1040 Interval Drilled (ft bgs): 1-4 Recovery (ft/in): 43"

Tube B Time 1044 Interval Drilled (ft bgs): 4-7 Recovery (ft/in): 48"

Tube C Time 1048 Interval Drilled (ft bgs): 7-10 Recovery (ft/in): 48"  
1053 10-13 50"

Subcontractor (Name/Company): Frantz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

☐ QA Sample Collected

RECORDED BY: D. J. Smith DATE: 4/1/13  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 9B-NA Building No. — Vertical Geoprobe No. SB 101

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*SB 4-8-15*

Sample Date: 4-8-15 Time: 1106 Weather: Cloudy, Rain, 50's

Subsurface Sample ID: 079SB-0339M-0001-50

Duplicate Sample ID: — 079SB-0340M-0001-50

Tube A Time 1105 Interval Drilled (ft bgs) 0-3' Recovery (ft/in): 36"

Tube B Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Field Samplers: FR, KP

Subcontractor (Name/Company): Frontz

Remarks: REFUSE AT 3.2' - DR-DILLED 3 ATTEMPTS - REFUSE

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/116*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 079SB-0339M-0002-50

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 90 DU/NA Building No. — Vertical Geoprobe No. SB102

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*30 4-8-15*

Sample Date: 4-8-15 Time: 1130 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 0795B-0341M-0001-50

Duplicate Sample ID: 0795B-0351M-0001-50

Tube A Time 1125 Interval Drilled (ft bgs) 0-4.2' Recovery (ft/in): 3'6"

Tube B Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Field Samplers: EA, KP

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 4.2 FT - RE-DRILLED 3 ATTEMPTS - REFUSAL

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/176*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected 0795B-0341M-0002-50

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: BU NA Building No. — Vertical Geoprobe No. SB103

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite

Sample Date: 4-8-15 Time: 1027 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 07958-0352M-0001-50

Duplicate Sample ID: —

Tube A Time 1025 Interval Drilled (ft bgs) 0-2.5' Recovery (ft/in): 30"

Tube B Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Field Samplers: —

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 2.5' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12' - 13' - 14' - 15' - 16' - 17' - 18' - 19' - 20' - 21' - 22' - 23' - 24' - 25' - 26' - 27' - 28' - 29' - 30' - 31' - 32' - 33' - 34' - 35' - 36' - 37' - 38' - 39' - 40' - 41' - 42' - 43' - 44' - 45' - 46' - 47' - 48' - 49' - 50' - 51' - 52' - 53' - 54' - 55' - 56' - 57' - 58' - 59' - 60' - 61' - 62' - 63' - 64' - 65' - 66' - 67' - 68' - 69' - 70' - 71' - 72' - 73' - 74' - 75' - 76' - 77' - 78' - 79' - 80' - 81' - 82' - 83' - 84' - 85' - 86' - 87' - 88' - 89' - 90' - 91' - 92' - 93' - 94' - 95' - 96' - 97' - 98' - 99' - 100'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 98-NA Building No. — Vertical Geoprobe No. SB104

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite

Sample Date: 4-8-15 Time: 0957 Weather: CLOUDY, RAIN, 50'S

Subsurface Sample ID: 079SB-0353M-0001-50

Duplicate Sample ID: —

Tube A Time 0955 Interval Drilled (ft bgs): 0-2.7' Recovery (ft/in): 26"

Tube B Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Field Samplers: MB, ALW

Subcontractor (Name/Company): Frontz

Remarks: REVERSAL AT 2.7' - 2 ATTEMPTS TO ADVANCE - REVERSAL  
VOG COLL AT 1.5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 90/NA Building No. — Vertical Geoprobe No. SB 105

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*JA 4-8-15*

Sample Date: 4-8-15 Time: 1130 Weather: CLOUDY, RAIN, 50'S

Subsurface Sample ID: 079SB-0354M-0001-50

Duplicate Sample ID: —

Tube A Time 1125 Interval Drilled (ft bgs) 0-3.5' Recovery (ft/in): 34"

Tube B Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Field Samplers: MG, MW

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 3.5' - 3 ATTEMPTS TO ADVANCE - REFUSAL  
VOL COLL AT 2 FT

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/116*

☒ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: *Jeff Doman*  
(Signature)

DATE: 4-8-15





## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 29 NA Building No. — Vertical Geoprobe No. SB106

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*SP 4-8-15*

Sample Date: 4-8-15 Time: 1330 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 07958-0355M-0001-50

Duplicate Sample ID: —

Tube A Time 1325 Interval Drilled (ft bgs) 0-3.3' Recovery (ft/in): 36"

Tube B Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Field Samplers: MG, AW

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 3.3 FT - 3 ATTEMPTS TO ADVANCE - REFUSAL

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/176*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 29 NA Building No. — Vertical Geoprobe No. SB107

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
2A 4-8-15

Sample Date: 4-8-15 Time: 1310 Weather: CLOUDY, RAIN, 50'S

Subsurface Sample ID: 0795B-0356M-0001-50

Duplicate Sample ID: —

Tube A Time 1300 Interval Drilled (ft bgs) : 0-5' Recovery (ft/in): 54"

Tube B Time 1305 Interval Drilled (ft bgs) : 2A 4-8-15 5-7' Recovery (ft/in): 24"

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Field Samplers: AG, AW

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
W/116

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: BU NA Building No. — Vertical Geoprobe No. SB108

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
SA 4-8-15

Sample Date: 4-8-15 Time: 0912 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 029SB-03572-0001-50

Duplicate Sample ID: —

Tube A Time 0910 Interval Drilled (ft bgs) 0-3.3' Recovery (ft/in): 34"

Tube B Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Field Samplers: ME, AW

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 3.3 FT - 3 ATTEMPTS + ADVANCE - REFUSAL

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
W/1/16

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 29 DU 1A Building No. — Vertical Geoprobe No. SB 109

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*SB 4-8-15*

Sample Date: 4-8-15 Time: 1441 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 079SB-0358M-0001-50

Duplicate Sample ID: —

Tube A Time 1435 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 54"

Tube B Time 1438 Interval Drilled (ft bgs): 5-7' Recovery (ft/in): 22"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Field Samplers: MG, AW

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/116*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: *[Signature]*

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 2B NA Building No. — Vertical Geoprobe No. SB110

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*DN 4-8-15*

Sample Date: 4-8-15 Time: 1500 Weather: CLOUDY, RAIN, 50'S

Subsurface Sample ID: 079SB-0359M-0001-50

Duplicate Sample ID: —

Tube A Time 1455 Interval Drilled (ft bgs) : 0-3' Recovery (ft/in): 34"

Tube B Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Tube C Time — Interval Drilled (ft bgs) : — Recovery (ft/in): —

Field Samplers: ABE, AW

Subcontractor (Name/Company): Frontz

Remarks: RECURSAL AT 3 FT - ATTEMPTED TO ADVANCE - RECURSAL

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/116*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: *[Signature]*

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 29-NA Building No. — Vertical Geoprobe No. SB111

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*JA 4-8-15*

Sample Date: 4-8-15 Time: 1628 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 079SB-0360M-0001-50

Duplicate Sample ID: —

Tube A Time 1623 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 54"

Tube B Time 1625 Interval Drilled (ft bgs): 5-7' Recovery (ft/in): 20"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Field Samplers: MT, AW

Subcontractor (Name/Company): Frontz

Remarks: —

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/1/16*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: *Jeff Danner*

(Signature)

DATE: 4-8-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit 29A Building No. — Vertical Geoprobe No. SB112

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*2A 4-8-15*

Sample Date: 4-8-15 Time: 1641 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 0795B-0361M-0001-50

Duplicate Sample ID: —

Tube A Time 1637 Interval Drilled (ft bgs): 0-5 Recovery (ft/in): 54"

Tube B Time 1629 Interval Drilled (ft bgs): 5-10 Recovery (ft/in): 54"

Tube C Time 1640 Interval Drilled (ft bgs): 10-11.5 Recovery (ft/in): 12"

Field Samplers: MB, AW

Subcontractor (Name/Company): Frontz

Remarks: 2-11.5' COMPOSITE SAMPLE COLL - 0795B-0362-0001-50 @ 1653  
REFUSAL AT 11.5"

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/11/16*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-8-15





## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-29 CR Site Name: MSA

Decision Unit: 29-NA Building No. — Vertical Geoprobe No. SB 113

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☒ Discrete ☐ Composite  
*JA 4-8-15*

Sample Date: 4-8-15 Time: 1537 Weather: CLOUD, RAIN, 50'S

Subsurface Sample ID: 0795B-0363M-0001-50

Duplicate Sample ID: 0795B-0364M-0001-50

Tube A Time 1533 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 54"

Tube B Time 1535 Interval Drilled (ft bgs): 5-7' Recovery (ft/in): 20"

Tube C Time — Interval Drilled (ft bgs): — Recovery (ft/in): —

Field Samplers: MB, AW

Subcontractor (Name/Company): Frontz

Remarks: DUPLICATE (-0364M) COLL.

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
*W/176*

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: *[Signature]*  
(Signature)

DATE: 4-8-15





## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: Main Ore Storage Area

Decision Unit: DU05 Building No. NA Vertical Geoprobe No. SB<sup>3</sup>

Subsurface Sample Type: ☒ Horizontal ISM ☐ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4/29/15 Time: 1650 Weather: Clear 50's

Subsurface Sample ID: 079SB-0390M-0001-S0 (1-4')

~~Duplicate~~ Sample ID: 079SB-0391M-0001-S0 (4-7')

Tube A Time N/A Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Tube B Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Field Samplers: FR, SD

Subcontractor (Name/Company): Frontz

Remarks: N/A

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4/29/15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ore Storage Area

Decision Unit: DU05 Building No. NA Vertical Geoprobe No. SBO1

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4/29/15 Time: 1510 Weather: clear, 50's

Subsurface Sample ID: 0795B-0392M-0001-S0

Duplicate Sample ID: 0795B-0393M-0001-S0

Tube A Time 1455 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 60"

Tube B Time 1505 Interval Drilled (ft bgs): 5-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Field Samplers: FR, JD

Subcontractor (Name/Company): Frontz

Remarks: N/A

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature] DATE: 4/29/15  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: Main Ore Storage Area

Decision Unit: DU05 Building No. NA Vertical Geoprobe No. SB02

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4/29/15 Time: 1520 Weather: clear, 50's

Subsurface Sample ID: 079SB-0394M-0001-S0

Duplicate Sample ID: NA

Tube A Time 1507 Interval Drilled (ft bgs) : 0-5' Recovery (ft/in): 60"

Tube B Time 1518 Interval Drilled (ft bgs) : 5-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs) : \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Field Samplers: EP, JD

Subcontractor (Name/Company): Frontz

Remarks: NA

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☒ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]

(Signature)

DATE: 4/29/15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ore Storage Area

Decision Unit: DU05 Building No. NA Vertical Geoprobe No. SB 03

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4/29/15 Time: 1545 Weather: Clear 50's

Subsurface Sample ID: 079SB-0395M-0001-S0

~~Duplicate~~ Sample ID: MS/MSD 079SB-0395M-0002-S0

Tube A Time 1530 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 60"

Tube B Time 1542 Interval Drilled (ft bgs): 5-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Field Samplers: FR, JD

Subcontractor (Name/Company): Frontz

Remarks: N/A

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☒ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☒ MS/MSD Sample Collected

RECORDED BY: [Signature] DATE: 4/29/15  
(Signature)



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: Main Ore Storage Area

Decision Unit: DU05 Building No. NA Vertical Geoprobe No. SB04

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4/29/15 Time: 1615 Weather: Clear 50's

Subsurface Sample ID: 079SB-0396M-0001-S0

<sup>composite</sup>  
Duplicate Sample ID: 079SB-0398-0001-S0

Tube A Time 1550 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 60"

Tube B Time 1600 Interval Drilled (ft bgs): 5-10' Recovery (ft/in): 60"

Tube C Time 1612 Interval Drilled (ft bgs): 10-13' Recovery (ft/in): 36"

Field Samplers: FR, JD

Subcontractor (Name/Company): Frontz

Remarks: N/A

#### Laboratory Analysis:

- ☐ VOC ☐ TAL METALS ☒ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4/29/15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP- 79 CR Site Name: Main Ore Storage Area

Decision Unit: DU05 Building No. NA Vertical Geoprobe No. SB05

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4/29/15 Time: 1645 Weather: clear 50's

Subsurface Sample ID: 0795B-0397M-0001-50

Duplicate Sample ID: N/A

Tube A Time 1623 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 60"

Tube B Time 1641 Interval Drilled (ft bgs): 5-7' Recovery (ft/in): 24"

Tube C Time \_\_\_\_\_ Interval Drilled (ft bgs): \_\_\_\_\_ Recovery (ft/in): \_\_\_\_\_

Field Samplers: FR, JD

Subcontractor (Name/Company): Frontz

Remarks: \_\_\_\_\_

#### Laboratory Analysis:

☐ VOC ☐ TAL METALS ☒ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4/29/15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL 3

Decision Unit: DU NA Building No.        Vertical Geoprobe No. SB101

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4-7-15 Time: 1400 Weather: CLOUDY, RAIN, 40'S

Subsurface Sample ID: 0795B-0325M-0001-50

Duplicate Sample ID:       

Tube A Time 1350 Interval Drilled (ft bgs): 0-5' Recovery (ft/in): 54"

Tube B Time 1355 Interval Drilled (ft bgs): 5-8' Recovery (ft/in): 32"

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Field Samplers: MB, AW

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 8'

#### Laboratory Analysis:

- ☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS  
W/HG
- ☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
- ☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-7-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL 3

Decision Unit: DU NA Building No.        Vertical Geoprobe No. SB102

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4-7-15 Time: 1540 Weather: CLOUDY, RAIN, 40'S

Subsurface Sample ID: 079SB-0376M-0001-50

Duplicate Sample ID:       

Tube A Time 1:55 Interval Drilled (ft bgs): 0-3' Recovery (ft/in): 32"

Tube B Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Field Samplers: ME, AW

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 3' - MADE 2 ATTEMPTS TO ADVANCE POINT

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-7-15





## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU Building No.        Vertical Geoprobe No. SB103

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4-7-15 Time: 1600 Weather: CLOUDY, RAIN, 40'S

Subsurface Sample ID: 07958-0377M-0001-50

Duplicate Sample ID:       

Tube A Time 1555 Interval Drilled (ft bgs) : 0-4' Recovery (ft/in): 42"

Tube B Time        Interval Drilled (ft bgs) :        Recovery (ft/in):       

Tube C Time        Interval Drilled (ft bgs) :        Recovery (ft/in):       

Field Samplers: MG, AW

Subcontractor (Name/Company): Frontz

Remarks: REFUSAL AT 4'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-7-15



## FIELD LOG FORM

### SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-79 CR Site Name: LL3

Decision Unit: DU Building No.        Vertical Geoprobe No. SB104

Subsurface Sample Type: ☐ Horizontal ISM ☒ Vertical ISM ☐ Discrete ☐ Composite

Sample Date: 4-7-15 Time: 1610 Weather: CLOUDY, RAIN, 40'S

Subsurface Sample ID: 079SB-0378M-0001-50

Duplicate Sample ID:       

Tube A Time 1605 Interval Drilled (ft bgs): 0-4.5' Recovery (ft/in): 48"

Tube B Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Tube C Time        Interval Drilled (ft bgs):        Recovery (ft/in):       

Field Samplers: ML, AN

Subcontractor (Name/Company): Frontz

Remarks: RECOVER AT 4.5'

#### Laboratory Analysis:

☐ VOC ☒ TAL METALS ☐ SVOCs ☐ EXPLOSIVES ☐ TPH GRO/DRO ☐ PCBs ☐ PROPELLANTS

☐ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

☐ MS/MSD Sample Collected

RECORDED BY: [Signature]  
(Signature)

DATE: 4-7-15

## **APPENDIX E.4**

### **DAILY HEALTH AND SAFETY FORMS**

*This page intentionally left blank.*



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-13-13

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

SLIPS + FALLS

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO ISSUES/CHANGES

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

WILL SURVEY CC 76 DEPOT AREA POINTS W/ CAMPBELL

SURVEYORS - J. DONOVAN WILL ACCOMPANY/ESCORT SURVEYORS

TO CC 76. D. CAMPBELL WILL BE IN STAGING DR/PAVING

LOCATION AT CC 79 NOW ONE STAGING AREA

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. David Comer
3. MIKE McMAHON	4.
5. RYAN FORKSHATT	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-14-13

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

D. Campbell will cont. FPS'ING PTS. AT 0679  
MAW and PARA

J. Donovan will cont. w/ Campbell sampling  
soil in SI & AZ BODINGS.

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. <u>David Campbell</u>
3. <u>MIKE MCMAHON</u>	4. <u>Frank Frank</u>
5. <u>RYAN VUKSCHATT</u>	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.





Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-15-13

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

WATCH FOOTLOCK AROUND JOINTSILE AREA

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONT. JOINT BULLING

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. <u>David G. Gray</u>
3.	4.
5.	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-16-13

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

USING CHAINSAW - WORN APPROPRIATE PPE

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

WILL CONT. TO MARK BORINGS AT CC79 & START AT CC3,  
CLEAR ACCESS TO BORINGS

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. <u>David Gmbar</u>
3.	4.
5.	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.





Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

Company:

3/8/13

ECC

Project Name/Location:

Ravenna AAP, Ravenna, OH

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

SLIPPERY ROADS / SURFACES  
TRIPS + FALLS  
STAY WARM

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

BEGIN SAMPLING AT 0629 AM ON ONE AREA

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. David Comley
3. Henry Millard JR	4. Joe Teter
5. Thomas Hammer	6. Catherine Guido
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-19-13

Company:

ECC

Project Name/Location:

Ravenna AAP, Ravenna, OH

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

TRIPS + FALLS

COLD CONDITIONS - DRESS WARM

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONTINUE TO SAMPLE C279

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. Joe Tater
3. Henry Millard JR	4. Catherine Guido
5. Thomas Hernandez	6. David Conlay
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-20-13

Company:

ECC

Project Name/Location:

Ravenna AAP, Ravenna, OH

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

USE caution driving on base, a lot of deer in road.

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONT. w/ sampling AT CC79 MAIN AREA  
STAKE LOCATIONS AT CC73 SAND CREEK  
" " " " " "

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. <i>Robert Shanks</i>
3. <i>Thomas H. Bennett</i>	4. <i>David Gonsky</i>
5. <i>Fred Rucke</i>	6. <i>Catherine Guido</i>
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

Company:

3/21/13  
ECC

Project Name/Location:

Person Conducting Briefing:

Ravenna AAP, Ravenna, OH

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

Soft, gravel, walk area before driving on to  
avoid getting stuck.

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONT. SAMPLING AT CC79

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. Catherine Guido
3. Fred Roche	4. TOMAS HERNAIMON & JR
5. David Gower	6. Joe Teter
7. Henry Millard JR	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.





Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

3-22-13

Company:

ECC

Project Name/Location:

Ravenna AAP, Ravenna, OH

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

SPILL - WATCH DRIVING

COLD - STAY WARM

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

FINISH SAMPLING AT CC 79 MAIN AREA, POSSIBLE  
FURTHER DELINEATION, THEN PROCEED TO LL3 TO  
COLL. SURFACE SAMPLES

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. Fred Boche
3. David Campbell	4. Joe Teter
5. Henry Millard Jr	6. Catherine Guido
7. Thomas W. W. W.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

4-1-13

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

Jeff Donovan

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness – Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO NEW ISSUES TO COVER

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONTINUE SAMPLING AT VARIOUS RI SITES - MAINLL C079  
+ C073 BCD U-16.

### 4. ATTENDEES (Print Name):

1. Jeff Donovan	2. Jason Scott
3. Roxann Williams	4. Fred Roche
5. Joe Teter	6. Henry Millard JR
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

4-6-15

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

JEFF DONOVAN

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

UPHOLD AWARENESS, BASE SAND LIMIT  
DECON OF DIRECT PUSH EQUIPMENT

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO NEW AHAs, HASP CHANGES

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

SUNRISE TO LOCATE POINTS AT ANGE P, C669 AND  
RS TO TANK RAMP, GET SET UP TO START DRILLING  
TOMORROW

### 4. ATTENDEES (Print Name):

1. JEFF DONOVAN	2. David Conlan
3. Michael McManus	4. Fred Roche
5. Ryan Vukobrat	6. Kathryn Priess
7. AL BASTERRAY	8.
9. Rickie Shanks	10.
11. Jason Harper	12.
13. Allie Wyman	14.
15. Mike Greene	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

4/7/15

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

JEFF DONOVAN

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

[High V. 3 Gear]

Vehicle Awareness, Base Speed Limit, Slips [Rain wear]

Decom of Direct push & ISM Sampling equipment

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO new AHA's, HASP changes

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

ISM & Direct Push Sampling @ CC 69 (Fire station), Prep for tomorrow

### 4. ATTENDEES (Print Name):

1. JEFF DONOVAN	2. Fred Ruck
3. Kathryn Priess	4. Mike Shultz
5. Jason Harper	6. Alie Wyman
7. David Conner	8. AL EASTERDAY
9. MICHY VAN METER	10. MIKE MCMA
11. RYAN YUEKSCHAY	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.





Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date: 4-8-2015 Project Name/Location: Ravenna AAP, Ravenna, OH  
Company: ECC Person Conducting Briefing: JEFF DONOVAN

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO NEW AHAs; NO HASP CHANGES

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONT. W/ DP + SI SAMPLES

### 4. ATTENDEES (Print Name):

1. <u>JEFF DONOVAN</u>	2. <u>AL EASTBERRY</u>
3. <u>Allie Wyman</u>	4. <u>Kathryn Priess</u>
5. <u>Rickie Shanks</u>	6. <u>Fred Burke</u>
7. <u>Jason Hopper</u>	8. <u>David Hansen</u>
9. <u>Mike Greene</u>	10.
11. <u>MILES MCMAHON</u>	12. <u>RYAN YURKOWITZ</u>
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

4-9-2015

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

JEFF DONOVAN

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

WALKING THROUGH DENSE UNDER BRUSH - THORNS, SHARP BRANCHES, ETC.

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO NEW AHAs / TASKS


### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

SHALLOW SOIL SAMPLING USING STEP PROBES AT -79 MSY AOC,  
DECON

GENERAL SITE CLEANUP ACTIVITIES

### 4. ATTENDEES (Print Name):

1. JEFF DONOVAN	2. AL EASTERDAY
3. MIKE GREENE	4. ALIE WYMAN
5. KATHRYN PIERCE	6. FRED ROCHE
7. DAVID COMEAU	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.

	<h1>ECC</h1>	<h2>DAILY SAFETY MEETING SIGN-IN SHEET</h2>
---	--------------	---

Date: 4-10-2015 Project Name/Location: Ravenna AAP, Ravenna, OH  
 Company: ECC Person Conducting Briefing: JEFF DONOVAN

**1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):**

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

**2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):**

**3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:**

PACK FINAL SAMPLES  
 CLEAN UP OLD 1026  
 MOB HOME

**4. ATTENDEES (Print Name):**

1. <u>JEFF DONOVAN</u>	2. <u>Kathryn Pricer</u>
3. <u>Fred Porcha</u>	4. <u>Allie Wyman</u>
5. <u>AL EASTGATE</u>	6. <u>Mike Greene</u>
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:

4-28-15

Project Name/Location:

Ravenna AAP, Ravenna, OH

Company:

ECC

Person Conducting Briefing:

JEFF DONOVAN

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

OBSEVING BASE SPEED LIMIT, NO TALKING ON CELLPHONE  
WHILE DRIVING, CHECK FOR TICKETS, USE SUNGLASSES

### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO NEW AHAs, HASP CHANGES


### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

GPS LOCATIONS AT C679 WADJ  
PAP, SAMPLE COMMENTS FOR YUMINNOV

### 4. ATTENDEES (Print Name):

1. JEFF DONOVAN	2.
3. ERIC RECHA	4.
5. DAVE COMAN	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



 <p>Vision Integrity Results</p>	<p>ECC</p>	<p><b>DAILY SAFETY MEETING SIGN-IN SHEET</b></p>
---	------------	--

Date: 4-29-15 Project Name/Location: Ravenna AAP, Ravenna, OH  
 Company: ECC Person Conducting Briefing: JEFF DONOVAN

**1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):**

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

DRY BASE POSTED SPEED LIMIT - CHECK OTHER RA TICS  
USE SUNGLASSES, STAY HYDRATED - NO CELL PHONE WHILE DRIVING

**2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):**

NO HASP CHANGES OR NEW AHAS  
NO EATING, DRINKING, SMOKING AT WORK AREA

**3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:**

WILL BEGIN DISCUSSING SOIL SAMPLING AT C-69 FOR VOC'S  
THEN MOVE TO C-79 TO CONDUCT 15M SOIL SAMPLING  
AT 5 ORIGINAL SOIL BORING LOCATIONS

**4. ATTENDEES (Print Name):**

1. <u>JEFF DONOVAN</u>	2. <u>David Gomeau</u>
3. <u>Zach Noble</u>	4. <u>Robb Shurtz</u>
5. <u>Fred Roche</u>	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.



Vision  
Integrity  
Results

ECC

## DAILY SAFETY MEETING SIGN-IN SHEET

Date:  
Company:

4-30-15  
ECC

Project Name/Location:

Ravenna AAP, Ravenna, OH

Person Conducting Briefing:

JEFF DONOVAN

### 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO


### 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

### 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

PACK UP COOLERS

### 4. ATTENDEES (Print Name):

1. <u>JEFF DONOVAN</u>	2. <u>David Comlav</u>
3. <u>Fred Rock</u>	4.
5. <u>MIKE MCMAHON</u>	6.
7. <u>RYAN YURKSCHATT</u>	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.

	<b>ECC</b>	<b>DAILY SAFETY MEETING SIGN-IN SHEET</b>
---	------------	---

Date: 5-12-15 Project Name/Location: Ravenna AAP, Ravenna, OH  
 Company: ECC Person Conducting Briefing: JEFF DONOVAN

**1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):**

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

CHECK FOR TICKS, DRINK WATER  
USE SUNSCREEN

**2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):**


NO NEW HASPS, OR AHAS

**3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:**

COLL. SWAMP SOIL SAMPLES AT CL 79

**4. ATTENDEES (Print Name):**

1. <u>JEFF DONOVAN</u>	2.
3. <u>Fred Roche</u>	4.
5.	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.

 <p>Vision Integrity Results</p>	<h1>ECC</h1>	<h2>DAILY SAFETY MEETING SIGN-IN SHEET</h2>
---	--------------	---

Date: 5-13-15  
 Company: ECC

Project Name/Location: Ravenna AAP, Ravenna, OH  
 Person Conducting Briefing: JEFF DONOVAN

**1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):**

Working around drilling equipment. Slips, trips, and falls.

Lifting sample coolers, lift with legs

Level D PPE unless otherwise instructed by SSHO

CHECK FOR TICKS,

**2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):**

NO NEW HASP, AHA'S

**3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:**

CONT. SCORPION SOIL SAMPLING AT RT DO TANK FARM

**4. ATTENDEES (Print Name):**

1. <u>JEFF DONOVAN</u>	2. <u>Fred Reke</u>
3.	4.
5.	6.
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.





*This page intentionally left blank.*

## **APPENDIX E.5**

### **FIELD NOTES**

*This page intentionally left blank.*

① 3-13  
MON

Tori Hernandez P.G

ON SITE @ 7.25 AM - 8.45 PM

Mon

COLD 30°F SNOW / MIX RAIN

CC 701 Main USE STORAGE AREA

Surface Samples DUB-16 9.25AM -  
DUB-12 AFTER LUNCH

D. 11.6 - @ SITE 10.25m

Dub Sub Surface SB-04 @ 11:33AM - 11:42AM

(3) ATT? → SB-03 @ 11:58 AM - 12:34 PM

SB-45 @ 12.55 pm - 12.56 pm

SB-02 @ 13.07 pm - 13.40 pm

SB-01 @ 15:45 pm - 19.25 pm

RAILROAD TIES & LINE W/IN DU 6 TOOK SEVERAL PHOTOS

\* SB-43 REFUSAL @ 6' MADE 3 ATTRS. SS

\* 513-05 REFUGAL @ 6.51 SS

\* SB-02 REFUSAL @ 5' MADE 3 ATTS. SS

\* SB-01 REFUSAL @ 4' MADE 9 ATTPS. SS

DL, CI, JD SAMPLED SURFACE DUS:

DELLERS LUNCH BREAK @ 19.32 - 19.30

DUT Sub surface SB-41 @ 1550 - 1602

513-42 @ 16.00 - 16.20

SR-05 @ 16:22 - 16:45

DB-13 @ 17:55 - 18:05

SB-04 @ 18.13 - 18.24

3-18-13 MONDAY

## PROBLEM

Drilling issue sample stuck in sampler  
only had 1 sampler 16:45 - 17:40

DRILLING - FINISHED DU 6:7

SURFACE DU 1-2 & DU 6-16

DRIVER LEFT 18 26

Finished at Sampling Building @ 8:15 PM

718 (11 HRS)

TUE -

Tom HAWKINS P.C.

3-19-13

ON SITE @ 7:38 AM

COLD 30°F WINDY PC

CE79 MALIN ORE STORAGE AREA

SETUP 8:15 AM

8:56AM STARTED DV9 SB-1 6.5'

9:20AM DUG SB-5 71

9.26 AM DU9 SB-2 7'

946 AM DUG SB-3 4.5' 1st

10.05 AM # 019 SB 4 5' 14" 0.5' NRE  
0.5' NEE  
WAL STAMP @ 8" - 13" THICK

SB-3 REFUSAL @ 4.5' MADE 3 ATMS. SS

\* SB-4 REFUSAL @ 5: MAKE 347705. SS

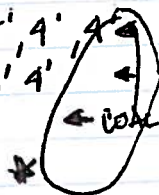
③ TUE  
3-19-13 COLD 30°F WINDY P/L  
0079 MAINURE  
10:30 AM STARTED DU12 SB-1 4' REFUSAL 4'  
10:50 AM DU12 SB-5 5' REFUSAL 4', 4.5', 5'  
11:10 AM DU12 SB-2 4' REFUSAL 4', 4'  
11:35 AM DU12 SB-4 7'  
11:57 AM DU12 SB-3 3.5' REFUSAL 3.5', 3'

1 SB-1 2 ATTS MAY DEPTH 4' PSS  
4 SB-1 3 ATTS MAY DEPTH 5' PSS  
4 SB-2 3 ATTS MAY DEPTH 4' PSS  
SB-3 2 ATTS MAY DEPTH 3.5' PSS

4 SB-2 HAD COAL (DUST) 12"

12:20 PM LUNCH - DRILLERS 1:20 PM  
COVER DAMAGED DUE TO WIND - SNOW  
1:25 PM SETUP FOR DU15 SB-1 7' COLD TRY 14.5'  
2:25 PM DU15 SB-5 7'  
2:40 PM DU15 SB-4 4' REFUSAL 3.5', 4', 4'  
3:30 DU15 SB-3 4' REFUSAL 3.5', 4'  
4:03 DU15 SB-2 7'

\* COAL CHUCKS AT SURFACE OF DU15



TUE  
3-19-13 DU15 COLD 30°F WINDY P/L  
4:20 PM FINISHED DRILLING  
COMPLETED DU9, DU12, DU15 SUBSURFACE  
5:20 PM LEFT FACILITY

CHIR

WED TON HARRMAN 2 P/L  
3-20-13 COLD 30°F P/L  
ONSITE @ 7:20 AM - 6:45 PM

8:00 AM AT 0079 SETUP  
8:58 AM DU13 SB-1 4' REFUSAL 5', 6.5'  
9:45 AM DU13 SB-2 4' REFUSAL 4', 4' NEEL  
10:35 AM DU13 SB-5 6' REFUSAL  
11:04 AM DU13 SB-4 6' REFUSAL  
11:20 AM DU13 SB-3 7'  
BLK SLUG - NOT SURE IF ITS ORE??

\* DU13 HAS RE SPURS W/ TONS OF RE TIES  
\* SB-2 M.C.B GOT STUCK IN THE HOLE  
TOLD DRILLER TO ABD M.C.B AND MOVE ON  
AT 10:32 AM.

11:50 AM MOVED TO DU16 SB-5 4' REFUSAL ALL SHITTS  
12:15 PM DU16 SB-1 3' REFUSAL  
1:50 PM DU16 SB-4 4' REFUSAL 3 ATTS @ 35' BIK SHALE  
2:04 PM DU16 SB-3 7'  
2:24 PM DU16 SB-2 6'  
SOME COAL AT SURFACE



(5)

3-20-13 WED

GENERAL NOTES DU13 DRK ORE  
DU14 COSEMED ORE

12:30 pm - 1:30 pm Lunch

2:42 AM FINISH DU16 (DRILLER ADDING FUEL)

2:50 PM MOVED TO DU14 - LOTS OF ORE

2:55 PM DU14 SB-2 7' (ORE)

3:10 PM DU14 SB-1 7'

3:47 PM DU14 SB-5 4' 24TTS REFUSE

3:57 PM DU14 SB-3 7'

4:22 PM DU14 SB-4 4' 24TTS REFUSE

4:35 PM MOVED TO DU11 - LOTS OF ORE

4:39 PM DU11 SB-3 7' (ORE)

4:55 PM DU11 SB-5 7' BLK RES IN 1" + 12"

5:15 PM DU11 SB-1 7'

5:42 PM DU11 SB-2 7'

5:50 PM DU11 SB-2 7'

COAL CHUCKS ON RAIL LINE

6:20 PM Drilling done! 4 DVS!

6:45 PM LEFT FACILITY

\*FINISHED DU11, 13, 14, 16 7/4 DVS

(6)

THURS

Tom Hammond P. 6

3-21-13

CC79 MAIN STORAGE

COLD 30F SNOW

7:34 AM STARTED NOTES N/JEFF PACKED UP TRUCK

7:54 AM STARTING CC79 DU10

8:15 AM DRILLER SETUP BORING LOCATE

9:00 AM DRILLER AT DU10 SB-3

9:25 AM DU10 \*SB-3 7' COAL DUST ?? ORE? Surface 3"

9:35 AM DU10 SB-4 6' MAX DEPTH

9:48 AM DU10 SB-5 6' " "

10:03 AM DU10 SB-1 6.5 ORE DUST (?) Surface 3"

10:25 AM DU10 SB-2 7'

TOOK D. SAMPLE @ SB-3 @ 3" DUST MATERIAL (COAL OR ORE)  
D. SAMPLE @ SB-1 @ 3" " " ORE

10:32 AM SAMPLE CREW RELOCATED TO DUB  
DRILLER SET UP A DUB SB-4

10:40 AM DUB SB-4 (7) Surface COAL 1" D. SAMPLE

10:56 AM DUB SB-1 (6) REFUSE

11:10 AM DUB SB-5 (6) Surface RES MATERIAL 3"

11:25 AM DUB SB-3 (6) REFUSE

11:37 AM DUB SB-2

11:55 AM LUNCH BREAK - 12:50 PM

⑦ 3-21-13 THUR

13:10 pm DVI SB-1 BIK 3" ~~REFUSAL~~ REFUSAL 5' 2A  
 13:33 pm DVI SB-2 REFUSAL AT 6.5' SAME BIK 3" 2A  
 13:51 pm DVI SB-3 7'  
 14:15 pm DVI SB-4 7'  
 14:27 pm DVI SB-5 3.5 3 ATTPS MAY 7.5' SS

15:05 pm MOVING TO DU2 SB-5  
 15:27 p DU2 SB-5 3.5 3 ATTPS  
 15:40, DU2 SB-4 2' 2 ATTPS  
 16:00 p DU2 SB-3 5' 2 ATTPS (D. Sample)  
 16:30 p DU2 SB-2 2' 2 ATTPS  
 16:45 p DU2 SB-1 6'

16:48 p REMOVB

17:25 FINISHED LEFT SITE

TH (GMC)

3-22-13 FRIDAY TOM HERNANDEZ  
 C. 30°F SNOW ON SITE @ 7:45 AM

8:13 am SET UP

# FULL SITE DU4 SB01  
 DU4 SB05 7.3' DSB

8:40 am DRILLING AT DU5

3-22-13 FRIDAY - SNOW

(8)

8:43 AM DU5 SB-2 6.5' REFUSAL SS  
 8:58 AM DU5 SB-1 7' BIK 3" SEAM OLE (G)  
 9:15 AM DU5 SB-3 7' 17" BIK ORE DS  
 9:25 AM DU5 SB-4 7'  
 9:40 AM DU5 SB-5 7' BIK OLE 3" DS

10:05 am MOB TO DU4  
 10:25 am DU4 SB-5 9.5' SS  
 10:43 am DU4 SB-4 8.5' SS  
 11:07 am DU4 SB-3 6.5' SS  
 11:10 am HAD TO REFUEL RIG  
 11:30 am STARTED BACK UP HORN  
 11:40 am DU4 SB-2 4.5' SS 2 ATTPS  
 11:55 am DU4 SB-1 7' 1st 7-13 STUCK

12:40 p LUNCH BREAK  
 1:40 pm CHECK OUT LL3 / DRILLER TOOK LUNCH BREAK  
 2:40 pm DRILLERS MOB TO LL3  
 3:20 pm DRILLERS LOCATE TO DU1  
 3:30 pm DU1 SB-1 7'  
 3:40 pm DU1 SB-2 7'  
 3:57 pm DU1 SB-5 7'  
 4:20 pm DU1 SB-3 7'  
 4:28 pm DU1 SB-4 7'



(9)

3-22-13 FRIDAY COLD 30°F

4:45 pm DRILLER DEMOS

5:20 pm FINISHED - LEFT FACILITY

~~10:00 AM~~

TOM HANANON 2 P.G.

3-23-13 SATURDAY CLOUD 30°F

LL3 TSA

7:20 am ONSITE

8:28 am SETUP AT LL3 TSA DUA CAR @ SURFACE

8:34 am LL3 DUA SB-1 5' 2ND REFUSAL

8:55 am LL3 DUA SB-2 5' 2ND REFUSAL

9:30 am LL3 DUA SB-3

DRILLER HAD ISSUES GOING UP THE BANK - WET/SLOPE. HAD TO CUT NEW PATH.

10:05 am AT LL3 DUA SB-3 7'

10:25 am LL3 DUA SB-4 3.5' REFUSAL 3RD

10:50 am LL3 DUA SB-5 5'

11:35 am PACK UP AND MOVE TO DU2 Bldg 803

12:40 pm LUNCH BREAK

12:40 pm RETURN FROM

12:45 pm LL3 Bldg 803 DU2 SB-5 7' REFUSAL

12:59 pm LL3 Bldg 803 DU2 SB-2 8' REFUSAL

SB-5 &amp; SB-2 COM AT SURFACE

(10)

3-23-13 SATURDAY COLD 30's SUNNY

BUILDING 803 LL3 TSA

13:14 DU2 SB-1 8' COM SURFACE

13:38 DU2 SB-3 6.5' COM SURFACE REFUSAL

13:58 DU2 SB-4 6.5' " " "

14:19 DU3 SB-1 6.5' REFUSAL 1ST 2ND 3RD

14:30 DU3 SB-5 3.5' REFUSAL @ 3.5' 3' 2.5'

14:52 DU3 SB-3 4.5' REFUSAL @ 4.0' 4.0'

15:07 DU3 SB-4 4.5' REFUSAL @ 4.5' 2.5' 4.0'

15:25 MOVED BACK TO SB-1 TO OBTAIN ANOTHER 4-7' SAMPLE

15:58 DU5 SB-1 4' REFUSAL @ 3.0' &amp; 4.0' SS

16:08 FINISHED - PICKING UP ON DUS 10:00 AM

TOM HANANON 2 P.G.

3-25-13 MONDAY COLD SNOW 3"

7:35 am AT SITE PACK UP DU3 NEED TO GO

TO SB-02

8:02 am DRILLERS BACK HAD TO CHANGING AT DUS

9:02 am DRILLERS MOVED TO DU3

②  
RVAAP

Mon., 1 Apr 2013

Weather: 38°, Dist, Snow, W 5-10

Personnel: J. Donovan, J. Scott, R. Williams  
F. Rocha, Fronto

Objectives: Subsurface sampling @ U-16 +  
Area 8

0730 Meet @ sampling Bldg. + begin  
move to Area 8.

0820 Begin setup @ Area 8.

1230 Begin DP borings @ Bldg. U-16

1350 Complete borings @ U-16. Begin  
surface sample.

1420 Complete Surface soil Sample.  
Move to E. Classification Yd.

1445 Setup to DP @ SB6, E. Classification Yd.

1500 Complete Survey. Move to Bldg.  
1036.

1530 Drillers set up in Bldg. 1037.

1600 JS offsite to FedEx.  
End of day

Juan Scott  
*[Signature]*

ZVAAP

Tues, 2 Apr 2013

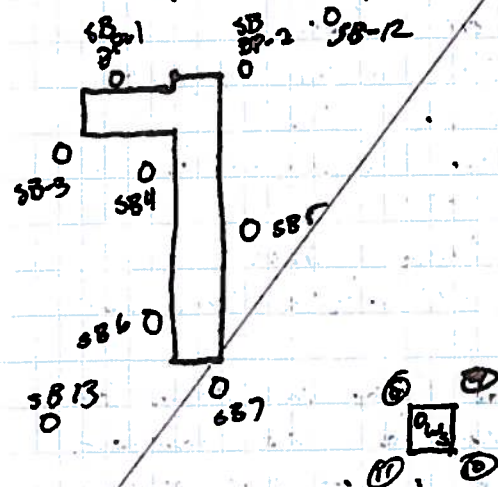
Weather: 28°, Clear, calm

Personnel: J. Scott, J. Donovan, R. Williams, F. Rocha  
Fronto Drilling.

Objectives: Complete SBs @ Bldg. 1034  
1037.

0730 All Ect. personnel onsite.

0800 Setup to DP in 1037 + 1034 (JS)



~1330 JS & FR offsite to F/M chipper.  
Joe T. (Fronto) continues curing  
concrete in 1037

1750 Finish 1034 for day. Move to 1036

Juan Scott  
*[Signature]* End of day



①

4-6-18 RAVENNA CLEAR 40'S  
0730 J. DONOVAN, A. EASTMAN, DALY,  
+ M. GREENE ON BASE,  
FRONT 2 DRILLERS ON  
BACK - KICKING SHANKS  
+ JASON.

0800 GET KEYS TO BLD 1036  
+ LOAD LINES FROM AL  
AL B (VISTA) - WE CAN  
KEEP KEYS UNTIL DONE.

0820 CAMPBELL ASSESS. ON SITE  
RYAN VANCE + MIKE  
McMAHON.

0845 A. EASTMAN TAKES PHOTO  
OF PROPANE TANK METER  
FOR BLD. 1036 (USE WHAT)

0900 M. GREENE W/ SURVEYOR  
AT CC 69 TO LOCATE 1 POINT,  
ORIG 582.

DRILLERS SETTING UP DR. CON  
PAD OFF NORTH EAST COR.  
OF BLD 1036 IN GRAVEL  
AREA (SAME LOCATION AS LAST  
TIME).

DR. CON W/ PAPER WASH.  
DECOR FLUID DRAINAGE POT IN  
BLD 1036.

②

RAVENNA

4-6-18

~~0730 ELL + DALY AT BLD 1036~~ <sup>10</sup> 4-6-18  
~~AT 1330 AS AREA 8 TO COLLECT.~~

SUPPLEMENTAL SOIL SAMPLES AT  
DU 3, 4, 5+6; DU 3+4 INNER DU'S,  
5+6 OUTER DU'S, WILL HOLD ANALYSIS  
ON 5+6 UNTIL RESULTS OF 3+4 ARE KNOWN,  
TAL METALS ANALYSIS - FULL SUMP  
COLL AT DU 03, ASPHALT COLL AT DU 03  
(METALS ONLY), DUP COLL. AT DU 04  
1630 FURTER SPREADING AREA 8.

(NOTE SURVEYORS ESTABLISHED PTS TO  
COME OFF OF)

1710 COLL SURFACE SOIL SAMPLE AT  
AT 80 TRUCK FARM AT DU 04.

\*1036 PAINTED (DARKER) ONE SIDE WILL BEGAIN  
OF DRAINAGE TYPED.

BRAD KLINE AT BLD 1036. DISCUSSED  
1 DW + FLAMPOLE CROWN.

1800 DECORATIVE SURFACE SOIL SPREADING  
EQUIP - ALCONOR WASH, TAP BACK  
METHANOL, 10% NITRIL, TERN D,  
WATER - WRAP IN TIN FOIL.

1845 ALL PERSONNEL OFF SITE

BLD 1036 LOCKED

NOTE:

WATER IN BOTT. OF  
SUMP IN BLD  
1036 WHEN  
WE ARRIVED

①

4-7-15 RAUANA CLOVER-AN 40'S  
 0730 RECT DALLAS AT BLD 1036  
 0745 HFS MEETING  
 0800 CAL PID - CAL OK.

SURFACES ON SITE

PLAN OF THE DAY - 1726N DP  
 BORINGS AT C69. CONT.  
 W/SURFICIAL SAMPLING AT  
 VARIOUS C679 SITES, STARTING  
 AT AT 80 TANK FARM,  
 BRINT SCARFORS BACK TO LL3  
 TO FINISH LOCATING PTS.

WILL SEARCH C69 SAMPLES  
 W/ PID W/ 11.7 EVLAMP +  
 AGR FIELD SLABKIT

0840 BEGIN SB101 AT C69  
 WILL COLL. QC SAMPLES AS FOLLOWS:  
 SB101 2-3' - M/M/D  
 5-6' - DUP.  
 9-19' - FULL SUITE  
 SB102 2-3' - M/M/D  
 5-6' - DUP  
 7-10 FULL SUITE  
 SB103 5-6' - DUP  
 2-10 FULL SUITE

②

RAUANA 4-7-15

SB104 (C69) 2-3' - DUP

SB105 7-10 FULL SUITE

1130 DRILLER DE-CONING EQUIP W/PRESS. WASH

CALL DU03 + 05 AT AT TO TANK FARM

DUP COLL. AT DU03 - METALS ONLY

AT AT 80 TANK FARM. ALL ~~SB~~ <sup>SB</sup> 10'S SAMPLES

COLL. AT AT 80 TANK FARM.

1228 1600 DECONING SAMPLING EQUIP

BE FORM MOVING TO C679.

1730 ALL PERSONNEL OFF SITE

BLD 1036 LILHAD.

\* 1655 TEST AMERICA (TA) RAUANA  
 PICKS UP SAMPLES COLL. AT AREA 8  
 1600 REFUSE AT LL3 SB103 AT 4'.

SB102 " 3 FT

SB104 " 4.5 FT

*[Signature]*



①

- 4-8-15 RIVERMOUTH RAMP - 50'S  
 0730 RUL & DRILLERS AT BLD 1036  
 0745 HHS MEETING  
 SURVEYORS ON SITE  
 PLAN OF THE DAY - CONT. W/  
 SURFACE SOIL SAMPLING AT  
 LL3, ALL BORINGS AT LL3  
 DONE. ALSO BLOW BORMES  
 AT MSA.  
 1015 TACONIA PICKS UP CCB9  
 SAMPLES.  
 1100 M. GABRY (ALL BLD) CLOS, SAT'S  
 GETTING REBAR PLACING 3' OF  
 SB 103 AREA AT MSA.  
 1700 FRONT DRILLING ON SITE,  
 FINISHED W/ ALL DRILLING  
 ACTIVITIES.  
 1715 DE-CON W/ SAMPLING EQUIP.  
 \* NOTE - SHALLOW ROCK (SANDSTONE) AT  
 CC 79 MSA POINT LOCATION LIMITED  
 DEPTH OF BORINGS TO BETWEEN  
 2-4 FT.  
 1800 ALL PERSONAL OFF SITE, BLD 1036 LOCKED  
 1915 AT PROBY TO SHIP BACK PID +  
 APP EQUIP.

~~Jeff Allen~~

②

- 4-9-15 RIVERMOUTH CLOVER-ROAD 50'S  
 0730 RUL AT BLD 1036, WILL CONT.  
 W/ COLL. SURFICIAL SOIL SAMPLES  
 AT CC 79 MSA.  
 0815 HHS MEETING.  
 1500 FINISHED W/ ALL SS SAMPLING  
 AT CC 79, 3 FULL SURFICIAL  
 COLL.  
 \* 1116 TACONIA PICKS UP  
 SAMPLES COLL 4-8-15.  
 1700 DE-CON SAMPLING EQUIP  
 W/ ALCOHOL WASH, TAP RINSE  
 10% NITRIC + 50% METHANOL  
 SPARK, RINSE W/ DI, WRAP  
 IN TIN FOIL. THIS WAS  
 DONE EACH NIGHT AFTER  
 SAMPLES WERE COLL.  
 1730 ALL PERSONAL OFF SITE  
 BLD 1036 LOCKED

~~Jeff Allen~~

Jeff Bunn

4-10-15 RAVENNA CLOUD - 50'

0800 FCL AS BLD 1036

WILL FINISH PACKING COAL, CLEAN BLD 1036, OR-MAS.

~~0810-1036~~

0815 HAS MEETING

0930 M. FREER + A. WYMAN LEAVE TO DRIVE HOME.

1000 D. COMBOL HAS PTS

AT CC69, BOLTON MANA RUG, AND US 7201 (DEPT AREA) WILL COLL 10W (SOIL + LIQUID), SOURCE WATER (DAILLON) FROM ECC TOTE FROM 2013, + RINSATE 13LRS (CC69 + CC79 METALS).

CLEANING BLD 1036

1330 TA COURIER PICKING UP SAMPLES DAVE COMBOL LVS TO GO TO AIRPORT

1340 J. DORVANN + A. EASTMAN LV BLD 1036, FLOORS MAPPED, DOOR LOCKED.

1350 AT OH NAT. GUARD TO RETURN BLD 1036 AND L23 KEYS TO AL BELLINGER.

1400 FCL OFF SITE.

Jeff Bunn

2



Jeff  
Don

①  
4-28-15 RAVENNA CUMAR - 505  
0713/15 AT CHARGE BUILDING,  
GET MAP TO BLD 1036 FROM  
REBECCA HANKE (VISTA).  
1025 MET W/ KATIE TAIT &  
KEVIN SIOLAK, TOLD THEM WE  
WOULD BE AT BLD 1036 TOMORROW  
MORNING AT 0730. KEVIN SAID  
HE WOULD STOP BY THEN.  
1305 J. DONOVAN, K. ROCHE, &  
D. COMEAU (KCL FIELD TEAM)  
AT BLD 1036.

NOTE - WATER IN BLD 1036 SUMP.

WILL PASS FOR TOMORROW'S  
DRILLING/SAMPLING, D. COMEAU WILL  
LOCATE CC 79 DUG ORIGINAL  
BORING LOCATIONS & CC 69 BORING  
LOCATIONS USING GPS UNIT.  
1430 T. AMERICA DROPS OFF COULANS  
& SAMPLER CONTAINERS.  
1515 D. COMEAU STAKING SB'S  
106, 107, 108, & 109 AT CC 69 W/  
GPS, CHECKED ACCURACY W/  
COORDS. FOR DRAIN IN AREA WEST OF  
D001, LOCATED WITHIN 2 FT OF DRAIN.

② 4-28-15 RAVENNA  
1600 COLL. SURFACE SOIL  
15M SAMPLE AT DUOS  
1.0 = 08955-0389M-000150  
SAMPLE ON ICE  
1730 ALL PERSONNEL OFF BASE  
BLD 1036 LOCKED

*John*

① 4-29-15 RAVENNA - CLEAR, 50'S  
0730 KCL AT BLD 1036.  
WILL BEGIN SAMPLING AT CL 69  
ALL SAMPLES DISCARD VOC-SOIL.

K. SEDLAC AT BLD 1036.  
\* OBSD CALL FROM DRILLERS, TRAILER  
BROKE DOWN (AXLE) THAT ARE  
SENDING A REPLACEMENT.  
ALSO, NEW DRILLER HELPER (ZACH  
NOBLE) WAS NOT ON ORIGINAL ACCESS  
LIST FROM FRONT2, GETTING HIS INFO  
FOR BACK ACCESS FROM S. WRIGHT (HOURS)

0700 K. SEDLAC OFF SITE, WILL CALL HIM  
WHEN DRILLERS GET HERE FOR HRS MEETING.

0905 DRILLERS CALLED, BE HERE  
IN ABOUT 25 MINS

0915 CAL 11.7 KV PID - CAL. OK.

0920 K. SEDLAC BACK AT BLD 1036

0930 FRONT2 (RICKIE SHANKS, ZACH  
NOBLE) AT BLD 1036.

0935 HRS MEETING.



(2)

4-29-15 RAVANNA  
 1000 DRILLER DR-CORING  
 DOWNHOLE EQUIP. W/ PRESSURE  
 WASH, USING DR-COR PRO  
 BUILT - SAME LOCATION AS  
 LAST TIME (OFF N. EAST CORNER  
 OF BLD 1236 ON GRAVEL PARKING  
 LOT).

1030 DRILLER CAN NOT GET  
 STEAM CLEAN TO START,  
 WILL USE ALCOHOL + SOLUB  
 BRUSHES TO PREPARE EQUIP.

1045 DRILLER SAYING NO  
 ON SB 101, WILL COLLECT  
 13-14, 14-15, 15-16, 16-17, 17-18.  
 INITIAL TEMP 1" PUD WELL - 10°F  
 TO PAUSE FOR LABEL, <sup>SCREEN</sup>

1055 BEGIN SB 101,

1130 FINISH SB 101 DOWN TO 20" P4  
 0.0 ON PID AT ALL INTERVALS  
 HOLE COLLAPSED TO 15, DRILLER'S  
 WITH ADVANCE ROD TO 20' TO SET  
 TEMP WELL.

1145 DRILLER DR-CORING RODS  
 BETWEEN HOLES W/ ALCOHOL  
 BRUSH WASH, RINSE.

1

RAVANNA

4-29-15

(3)

AT SB 104 WILL COLLECT 12-13, 14-15 (MS/PUD)

1210 BEGIN SB 104

1220 BEGIN SB 106.

1300 MAJOR SLABS HATTING  
 STUCK IN SAMPLER.

1315 FINISH SB 106

1325 BEGIN SB 107

1345 FINISH SB 107

1355 BEGIN SB 108

\* NOTE: ALL SOIL <sup>EXTRA</sup> BEING PUT IN  
 5 GAL BUCKETS FOR STORAGE IN  
 10W DRUMS.

1400 FINISH SB 108

1410 BEGIN SB 109.

1430 FINISH SB 109.

ALL SAMPLES FOR CL 69  
 COLL. + ON ICE IN COOLER,

1500 AT CL 79 DUOS

WILL ADVANCE 5 SB'S AT  
 ORIGINAL SB LOCATIONS (2013?)  
 ORIG. STAKES STILL IN PLACE,  
 DOUBLE CHECKED W/ GPS UNIT,  
 MATCHED,

1510 KERN SOLAR OFF SITE

④ 4-29-13 RAVENNA

WILL COLL 15M. 4-4, 4-2

HORIZONTAL AT SB'S 1-5,

PLUS 1, 1-7 VERT 15M AT

EACH BOUND. WILL COLL.

DSB COMP. FROM 7-13'.

WILL COLL 1 OUP + 1 AS/MOD

ALL SAMPLES FOR SVAC ONLY.

1705 FINISHED W/ CC 79 DUOS

SAMPLES, COLL OUP AT

SB61 (-0393M = OUP)

AS/MOD AT SB03

DSB 7-13 COMP. AT SB04

1730 DALLAS DECONING

EQUIP. AT DECON PAD

1750 DALLAS LV. SITE.

ALL PREPINT SAMPLES

FOR LAB PICK UP TOMORROW.

1755 CHECK WAT. LVL IN TAMP

WELL AT CC 69 AT SB101,

= 7.80 TOP CASING,

0.60 CASING STICK UP

ABOVE GROUND, WILL RE

CHECK IN THE MORNING

1830 OFF SITE BLD 1036 LOCATED

2/2/13

⑤ 4-30-13 RAVENNA BTL. CLOVER 40'S

0700 RCL AT BLD 1036.

0715 HTS MEETING

0730 WAT LVL IN TAMP

WELL AT CC 69 SB101

~~SB~~ = 6.01 TOP PVC

TOP PVC IS 0.6 ABOVE = 5.41 <sup>GLND</sup> SURFACE

TAMP SURFACE, DEPTH OF

WELL = 17.3 FROM TOP

PVC. = 16.7 GROUND SURFACE.

0745 CAMPBELL ASSOC (SURVIVORS)

AT BLD 1036 MICHANAHAN

+ RYAN KURSHATT.

KEVIN SACHAK AT BLD 1036.

REVIEW HTS ISSUES WITH

SURVIVORS.

0810 D. CONRAD TAKING

SURVIVORS TO CC 70 TO LOCATE

STREET STAKES + TO CC 69

TO LOCATE BOUNDARY,

0815 H. SRO GALT LVS BLD 1036.

0800 COLL RINATE BLK FOR

CC 69 VAC'S ONLY - 069SB-0090-0001-RB

0805 COLL RINATE BLK FOR CC 79

SVAC'S ONLY - 079SB-0399-0001-RB



(2)

4:30-15 RAVANNA.

1030 SURVEY OFF SITE

1040 F. RUCKER + D. CAMERON

LV. FOR AIRPORT.

1140 TA CAMERON PICKS UP  
SAMPLES

1145 CLEANING UP BLD 1036.

1200 PULL TAMP, WILL AT  
CL 69 SB101, BACKFILL  
W/ BENTONITE CHIPS TO  
COND. SURFACE.

1215 ~~START~~ FL. AT BLD 1036,  
TURN OFF LIGHTS, W/ PLOU  
FRANKE (DUMPED ICE IN OUTSIDE  
DRAIN).

1230 LV. BLD 1036, DOWN LOCKER

1245 RETURN KEYS TO BLD 1036.  
TO BRIGGS HANET - SHE WAS  
NOT THERE, LEFT ON DESK,  
SGT. STANLEY (RANK CONTRACT)  
SAID HE WOULD TELL HER,

STOPPED BY AND SAW KATIE TAY  
THROUGH SEOLAK.

1255 LV OH AUNT BASE FOR

1330 AIRPORT + FRO EX (EQUIP. TO  
ON AIRPORT. ~~AT FRO EX~~ (W/ ANITA,  
PLANTAR)

(1)

4:5-12:5 RAVANNA CLASH 605

1230 BCL (J. DONNAN + F. RUCKER)

AT OH AUNT HEADQUARTERS - GET

BLD 1036 KEY FROM K. SEOLAK.

1250 AT BLD 1036.

1255 THIS MERTANT.

1310 AT CL 79 MSA DUBY.

WILL COLL SURFACE SOIL 15M  
SAMPLES FOR METALS ONLY.  
NO DUP'S, MS/MSO OR FULL  
SUITS WILL BE COLL. AT AND  
DW DURING THIS SAMPLING EVENT.

1830 FINISH ALL SURFACE SOIL

SAMPLING AT CL 79 MSA

DUB'S 31, 32, 33, 34, + 35.

1845 LV. BLD 1036, BLD LOCKER.  
SAMPLES ON ICE.

①

5-13-13 RAVENNA CLOUDY, 50'S

0700 EGG AT BLD 1036,

WILL COLL. SOA MOCK SOIL  
SAMPLES AT CC 79 RT 80  
TANK FARM, DU'S 6+7, DU'S  
A STAY OUT, WILL HOLD ANALYSIS  
(THE METALS) UNTIL RESULTS FOR  
DU06 ARE IN.

0715 HHS MEETING. WILL USE  
GPS TO LOCATE DU'S 6+7,

0730 AT RT 80 TANK FARM,  
KEVIN SRODZAK ON SITE,

0810 ↓ ↓ OFF SITE,

1030 FUNK COLL. DU06+07  
AT RT 80 TANK FARM.

1100 COLL. RINWATE BLK.  
FOR METALS + Hf.

1115 AT 47-70 RLY TO TAKE  
PIX. OF REPAIR PIT

1130 DROP OFF KET TO BLD 1036  
W/ KEVIN SRODZAK. GIVE

KATIE TAIT COPT OR DAWN INSPECTOR.

1155 DROP SAMPLES W/ TA COURIER.  
AT GATR.

1230 DROP GPS UNIT AT FEDEX  
HEAD TO AIRPORT

*[Signature]*

**APPENDIX E.6**

**PHOTOIONIZATION DETECTOR  
CALIBRATION FORMS**

*This page intentionally left blank.*

# INSTRUMENT CALIBRATION LOG

Project/Site Name Ravenna, Ohio

Calibrated By David Comeau

Instrument/Serial Number	Pre-calibration Reading	Post-calibration Reading	Calibration Gas/Concentration	Date
MiniRae 3000 PID 2000 06087	0.8 / 102	0.3 / 99.8	Isobutylene / 100ppm	3-18-13
MiniRae 3000 PID 2000 3443	0.4 / 107	1.0 / 101	Isobutylene / 100ppm	3-18-13
MiniRae 3000 PID 2000 3443	0.7 / 101	0.5 / 98.7	Isobutylene / 100ppm	3-19-13
MiniRae 3000 PID 2000 3443	0.2 / 104	1.2 / 103	Isobutylene / 100ppm	3-20-13
MiniRae 3000 PID 2000 3443	0.4 / 101	0.9 / 99.8	Isobutylene / 100ppm	3-21-13
MiniRae 3000 PID 3443	0.8 / 102	1.1 / 98.9	Isobutylene / 100ppm	3-22-13
MiniRae 3000 PID 3443	0.5 / 99.8	1.2 / 101.3	Isobutylene / 100ppm	3-23-13
MiniRae 3000 PID 3443	0.2 / 101	0.8 / 98.7	Isobutylene / 100ppm	3-25-13
MiniRae 3000 PID 3443	0.4 / 98.8	0.4 / 100.2	Isobutylene / 100ppm	3-26-13
MiniRae 3000 PID 3443	1.1 / 101.2	0.3 / 99.2	Isobutylene / 100ppm	3-27-13
MiniRae 3000 PID 3443	0.7 / 98.9	0.6 / 100.7	Isobutylene / 100ppm	3-28-13
MiniRae 3000 PID 3443	0.8 / 99.7	0.2 / 101.1	Isobutylene / 100ppm	3-29-13



## INSTRUMENT CALIBRATION LOG

Project/Site Name RAVONNA

Calibrated By JEFF DONOVAN

[illegible]



## INSTRUMENT CALIBRATION LOG

Project/Site Name Ravenna AAP, Ohio

Calibrated By David Comeau

[illegible]

# INSTRUMENT CALIBRATION LOG

Project/Site Name ROCKING A&P

Calibrated By T. Donovan

[illegible]



# US Environmental Rental Corporation

(888) 550-8100

[www.usenvironmental.com](http://www.usenvironmental.com)

166 Riverview Ave, Waltham, MA 02453 (781) 899-1560

91 Prestige Park Circle, Suite 5, East Hartford, CT 06108 (860) 289-8700

5C South Gold Dr, Hamilton, NJ 08691 (609) 570-8555

1202 Tech Blvd., Suite 108, Tampa, FL 33619 (813) 628-4200

Company: Environmental Chemical  
Contact: Jeff Donovan  
Phone #: #N/A

Order No.: RR99410

Date: 4/23/2015

Technician: KM

## Packing List

Item	Serial Number	Included	QC
MiniRAE 3000	592-901777	✓	
Manual		✓	
Charger		✓	
Probe Tip		✓	
Alkaline Battery Pack		✓	
External Filters		✓	
Software			
Comm. Cable			
Regulator		✓	
Tedlar Bag		✓	
Calibration Gas			
Tube Holder			
Zero Tubes			

## Calibration Report

Item	Information
MiniRAE 3000	592-901777
Calibration Gas:	Isobutylene
Lot Number:	44323-23
Span Setting:	100.00 ppm
Correction Factor:	1.00
Zero Reading:	0.00 ppm
Span Reading:	100.00 ppm
Post-Cal Bump Test:	101.50 ppm
Lamp	11.7 eV

### Need help with the calibrating your PID?

We have "How To" Videos on our website. Use your smart phone's QR Code reader to find our videos at:  
[usenvironmental.com/technical-support/videos/](http://usenvironmental.com/technical-support/videos/)



This document certifies that US Environmental Rental Corporation has provided this rental equipment and all accessories in good working order. It is the renter's responsibility to: a) review all included items upon receipt, b) verify that all items are in acceptable condition and function properly, and c) contact a US Environmental associate immediately if any item is missing, damaged, and/or not functioning properly. Any delay in notifying US Environmental will be considered as the Renter taking responsibility for such missing, damaged, and/or malfunctioning item.

**Missing, damaged, and/or malfunctioning equipment and accessories will result in additional fees.**

*This Page Intentionally Left Blank.*