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14. ABSTRACT This Final Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds (WBG), Pads 61/61A, 67, and 70, at the Ravenna Army Ammunition Plant (RVAAP) in Ravenna, Ohio, summarizes the operations performed to cleanup contaminated areas at WBG Pads 61/61A, 67, and 70 to an acceptable level of risk, according to the recommendations given in the Phase II MEC Clearance and Munitions Response Report (MKM, 2005) and the selected remedy documented in the Record of Decision for Soil and Dry Sediment at the Winklepeck Burning Grounds (WBG ROD) (SAIC, 2008).						
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MKM Engineers, Inc.

Remedial Action Completion Report

FINAL REMEDIAL ACTION COMPLETION REPORT FOR RVAAP- 05 WINKLEPECK BURNING GROUNDS PADS 61/61A, 67, AND 70.

**Ravenna Army Ammunition Plant (RVAAP)
Ravenna, Ohio**

Contract No. W912QR-04-D-0040

Prepared for:



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November 19, 2009



Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

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BRACO – Base Realignment and Closure Technical Support Office

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RVAAP – Ravenna Army Ammunition Plant

USACE – United States Army Corps of Engineers – Louisville District

USAEC – United State Army Environmental Center



Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

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- W – Daily Quality Control Reports – CD
- X – Cumulative Signed Documentation/Correspondence
- Y – Comment Response Table



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ACRONYMS AND ABBREVIATIONS

ACM	asbestos containing material
AMA	AMA Analytical Services, Inc.
AOC	Area of Concern
bgs	below ground surface
BRAC-D	(U.S. Army) Base Realignment and Closure Division
Camp Ravenna	Camp Ravenna Joint Military Training Center
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CLIN	contract line item number
COC	chemical of concern
DDESB	Department of Defense Explosives Safety Board
DOD	Department of Defense
DOT	Department of Transportation
DQO	data quality objective
EM	Engineering Manual
EMM	Earth-Moving Machinery
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
ESD	Explanation of Significant Differences
ESS	Explosives Safety Submission
FFS	Focused Feasibility Study
FSP	Field Sampling and Analysis Plan
GOCO	government-owned contractor-operated
HTRW	Hazardous, Toxic, and Radioactive Waste
ID/IQ	indefinite delivery / indefinite quantity
IRP	Installation Restoration Program
JMC	Joint Munitions Command
LUC	land use control
LL	load line
MARC	multiple award remediation contract
MD	munitions debris
MEC	munitions and explosives of concern
mg/kg	milligrams per kilogram
MI	multi-increment
MKM	MKM Engineers, Inc.
mm	millimeter
MPPEH	material potentially presenting an explosive hazard
MR	Munition Response
MS/MSD	matrix spike / matrix spike duplicate
MSD	Minimum Separation Distance
NGB	National Guard Bureau
NIOSH	National Institute of Occupational Safety and Health
NPDES	National Pollution Discharge Elimination System
NPL	National Priorities List
OAC	Ohio Administrative Code
OD	open demolition



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ACRONYMS AND ABBREVIATIONS (CONTINUED)

OE	Ordnance and Explosives
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
ORD	Order
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PBC	performance-based contract
PEL	permissible exposure limit
PLM	polarized light microscopy
PMP	Property Management Plan
PPE	personal protective equipment
ppm	part per million
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
QCI	Quality Control Inspection
QCSR	Quality Control Summary Report
RA	Remedial Action
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RI	Remedial Investigation
RVAAP	Ravenna Army Ammunition Plant
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SOW	Scope of Work
SR	State Route
SSHP	Site Safety and Health Plan
SSHO	Site Safety and Health Officer
SUXOS	Senior UXO Supervisor
SVOC	semi-volatile organic compound
TACOM	US Army Tank-automotive and Armaments Command
TAL	Target Analyte List
TCLP	toxicity characteristic leaching procedure
TSCA	Toxic Substances Control Act
USACE	United States Army Corps of Engineers
USP&FO	United States Property and Fiscal Officer
UXO	unexploded ordnance
UXOQCS	UXO Quality Control Specialist
UXOSO	UXO Safety Officer
UXOT	UXO Technician
WBG	Winklepeck Burning Grounds



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1.0 INTRODUCTION

1.1 Government Authorization

MKM Engineers, Inc. (MKM) has conducted a Remedial Action (RA) at Winklepeck Burning Grounds (WBG) Pads 61/61A, 67, and 70, located at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio. The project was performed in accordance with the guidelines set forth in the project Scope of Work (SOW); the Final Remedial Action Work Plan (MKM, 2008c); the Explosives Safety Submission, Revision 3, Amendment 3 (ESS) (MKM, 2008a); Site Safety and Health Plan (SSHP) (MKM, 2008d); and the Phase II MEC (Munitions and Explosives of Concern) Clearance and Munitions Response Report (MKM, 2005c). The RA was completed under the performance-based contract (PBC) for the United States Army Corps of Engineers (USACE) Louisville District's multiple award remediation contract (MARC) indefinite delivery/indefinite quantity (ID/IQ) contract number W912QR-04-D-0040 for the WBG.

1.2 Objective and Scope

The objective of this RA was to clean up contaminated areas at WBG Pads 61/61A, 67, and 70 to an acceptable level of risk, according to the recommendations given in the Phase II MEC Clearance and Munitions Response Report (MKM, 2005c) and the selected remedy documented in the Record of Decision (ROD) for soil and dry sediment at WBG (SAIC, 2008). To carry out the recommendations and implement the selected remedy, MKM excavated a total of 7,294 cubic yards (CY) of soils contaminated with transite asbestos containing material (ACM), friable asbestos, and/or MEC at WBG Pads 61/61A, 67, and 70 to protect future range maintenance soldiers from exposure from contaminants in soil exceeding risk-based cleanup goals listed in the WBG ROD (SAIC, 2008).

MKM was tasked under the MARC contract line item number (CLIN) 3 and contract modification number 2. Four contract modifications were issued during the course of the RA. Modification 1 included the installation of an access road from Greenleaf Road to the soil stockpile at the west end of WBG. Modification 2 provided for a period of performance extension, a change in requirements for addressing the presence of asbestos in soil, and the addition of Pad 70 to the SOW. Modification 3 described the deliverables for disposal and final disposition actions for MEC. Modification 4 provided for the excavation of additional soil volumes to meet Ohio Environmental Protection Agency (EPA) cleanup standards listed in the ROD per agreement between the U.S. Army and the Director of Ohio EPA. The scope of work and modifications are included in Appendix A of this report.



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1.3 Site Location

The RVAAP is located within the confines of Ohio Army National Guard (OHARNG) Camp Ravenna Joint Military Training Center (Camp Ravenna), which is in northeastern Ohio within Portage and Trumbul Counties, approximately 4.8 kilometers (3 miles) east-northeast of the city of Ravenna and approximately 1.6 kilometers (1 mile) northwest of the town of Newton Falls. The RVAAP portions of the installation are solely located within Portage County. The installation consists of a 17.7-kilometer (11-mile) long 5.6-kilometer (3.5-mile)-wide tract bounded by State Route (SR) 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garrett, McCormick and Berry roads to the west; SR 534 to the east, and the Norfolk Southern Railroad on the north. The installation is surrounded by several communities: Windham on the north, Garrettsville 9.6 kilometers (1 mile) to the east, Charlestown to the southwest, and Wayland 4.8 kilometers (3 miles) southeast (Appendix B, Figure 1).

Winklepeck Burning Grounds is located in the approximate center of the RVAAP (Appendix B, Figure 2). The topography at WBG is characterized by gently undulating contours that decrease in elevation from west to east. Elevations vary from 1,084.9 to 993.2 feet with the highest elevations located at the extreme western end of the WBG, near Pads 28 and 43. Additionally, three small storm water drainage ditches cross the site from west to east and flow into Sand Creek.

1.4 Operational History

Department of Defense (DOD) activities at the RVAAP date back to 1940. The RVAAP was constructed primarily as a site for loading medium and major caliber artillery ammunition, bombs, mines, fuzes and boosters, primers, and percussion elements as well as storing finished ammunition and ammunition components. These industrial operations were conducted within 12 munitions assembly facilities referred to as "load lines" (LLs). The RVAAP installation also had several areas used for burning, demolition, and testing of munitions and buildings/areas designated for cleanup and decontamination activities for production equipment. Additionally, over the years the RVAAP has handled and stored strategic and critical materials for various government agencies and received, stored, maintained, transported, and demilitarized ammunition and explosive items.

When the RVAAP IRP began in 1989, RVAAP was identified as a 21,419-acre installation. The property Boundary was resurveyed by OHARNG over a 2-year period (2002 and 2003) and the total acreage of the property was found to be 21,683.289 acres. As of February 2006, a total of 20,403 acres of the former 21,683-acre RVAAP has been transferred to the National Guard Bureau (NGB) and subsequently licensed to OHARNG for use as a military training site. The current RAAP consists of 1,280 acres scattered throughout the OHARNG Camp Ravenna Joint Military Training Center, herein referred to as Camp Ravenna. When RVAAP was operational, Camp Ravenna did exist and the entire 21,683-acre parcel was a government-owned,



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contractor-operated (GOCO) industrial facility. The RVAAP IRP encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP. References to RVAAP in this document are considered to be inclusive of the historical extent of RVAAP, which is inclusive of the combined acreages of the current Camp Ravenna and RVAAP, unless otherwise specifically stated.

Historical operations at WBG included burning explosives out of heavy artillery projectiles using open burning. In some instances, high-energy materials such as black powder and explosives, were laid out in a string along a road and burned. Burning is known to have occurred along Road D. Prior to 1980, wastes disposed by burning included RDX, antimony sulfide, Composition B, lead oxide, lead thiocyanate, 2,4,6-TNT, propellant, black powder, sludge and sawdust from load lines, and domestic wastes. Explosives-contaminated materials, such as crates and bags, were also burned. Historical records do not indicate that WBG was used as an open demolition area for disposal of munitions. However, during previous investigations, fully fuze 40-millimeter (mm) grenades were found in the western portion of WBG and destroyed in place. Based on their locations, these 40-mm grenades are likely to be "kickouts" from the Open Demolition 2 (OD-2) area located immediately southwest of WBG. However, several 40-mm grenades, identified around Pad 60 during the Phase I MEC Density Survey (MKM, 2005b), do not appear to be a result of kickouts from OD-2. Also, small amounts of laboratory chemicals were routinely disposed of during production periods. Shrapnel and other metallic munition fragments were allowed to remain on the site after detonation, as were possible residual explosives. Waste oil was disposed in the northeast corner of WBG until 1983.

Prior to 1980, burning was carried out in four burn pits, on burn pads, and sometimes on the roads. The burn pits consisted of areas bermed on three sides, approximately 50 to 75 feet in width and length. It is suspected that the four burn pits correspond to Pads 58, 59, 60, and 61. Of the four burn pits, Pad 58 was used most frequently. The burn pads generally consisted of level areas without berms 20 to 40 feet in width and length. It is not known how many pads were contained within WBG. Currently, 70 burn pads have been identified from historical drawings and aerial photographs. A site map depicting the locations of the burn pads is provided in Appendix B, Figure 3. Burning was conducted on bare ground. Ash from these areas was not collected. Scrap metal was reclaimed and taken to the landfill north of WBG.

After 1980, thermal treatment of munitions and explosives was conducted only in a 1-acre RCRA area at Burn Pad 37. Burning was conducted in metal, refractory-lined trays set on top of a bed of crushed slag in an area approximately 100 by 100 feet in size. Ash residues were drummed and stored in Building 1601 on the west side of WBG pending disposal. The burn trays were decontaminated and removed from Burning Pad 37 in 1998, and the site was closed under the Resource Conservation and Recovery Act (RCRA).



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WBG was identified as an area of concern (AOC) at RVAAP in the Preliminary Assessment (USACE, 1996). It was the subject of a Phase I Remedial Investigation (RI) (SAIC, 1998), a Phase II RI (SAIC, 2001a), and a Phase III RI (SAIC, 2005a). A Focused Feasibility Study (FFS) was completed in 2005 (SAIC, 2005b).

OHARNG constructed a Mark 19 Grenade Machinegun Range, at WBG, that was first opened for use on December 14, 2006. Three of the four firing lanes have been constructed on approximately 180 acres of land that were transferred to the OHARNG for this effort. The final lane (Lane 1) has yet to be transferred to the OHARNG as the remaining remediation (referenced in this document) had yet to be completed. Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range.

To protect range maintenance soldiers, soils contaminated with MEC and chemical contaminants were removed in 2005. The target cleanup goals for chemical contaminants were developed in the FFS. During MEC removal actions, soil containing chemical contamination was removed consistent with the preferred Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) alternative. MEC and some associated contaminated soils were removed according to procedures in the approved Department of Defense Explosives Safety Board (DDESB) Explosive Safety Submittal (ESS) and associated project work plans (MKM, 2005a, and 2005c). Final grading, seeding, mulching, and road repair were completed in August 2005. These actions were completed under an accelerated schedule to meet the military mission requirements (United States Department of the Army, 2006).

At the conclusion of MEC removal actions in 2005, contaminant concentrations greater than risk-based cleanup goals (those levels that are considered safe for range maintenance soldiers) remained in the soil at Pads 67 and 61/61A. In addition, transite, or friable asbestos, was also observed on site at Pad 70 and required removal.

1.5 Installation Status

The RVAAP installation has AOCs that are currently being addressed through the CERCLA process. As areas are remediated, the U.S. Army Base Realignment and Closure Division (BRAC-D) is transferring remediated areas to OHARNG. WBG has a final (approved) RI and a final FFS in place, which proposed remedial alternatives. The final lane (Lane 1) of the MK 19 Grenade Machinegun Range has yet to be transferred to the OHARNG as the remaining remediation had yet to be completed. Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range.



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1.6 Regulatory Authorities

The approach to addressing environmental conditions at RVAAP is regulatory-based following the framework established by the primary regulatory drivers: CERCLA, RCRA, and the Toxic Substances Control Act (TSCA). CERCLA activities are funded under the BRAC-D Installation Restoration Program (IRP).

1.7 RVAAP Team Coordination

All major activities of the RA were coordinated with:

- Ravenna Army Ammunition Plant (RVAAP)
- US Army Base Realignment and Closure Division (BRAC-D)
- Ohio Environmental Protection Agency (Ohio EPA)
- Ohio Army National Guard (OHARNG)
- U.S. Army Corps of Engineers (USACE)
- MKM Engineers, Inc. (MKM)

1.8 Technical Approach for the Remedial Action at WBG Pads 61/61A, 67, and 70

The Final Remedial Action Work Plan (MKM, 2008c) discusses the technical approach used for remediation of WBG Pads 61/61A, 67, and 70, which contained chemicals of concern (COCs) at concentrations greater than the established site cleanup goals. Table 1-1 summarizes the WBG cleanup goals. Results of the environmental remediation operations are reported in Section 2.0 of this report.



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TABLE 1-1 SUMMARY OF WBG CLEANUP GOALS

COCs	WBG Cleanup Goals (mg/kg)
2,4,6-Trinitrotoluene	1935*
RDX	617
benzo(a)anthracene	75
benzo(a)pyrene	7.5
benzo(b)fluoranthene	75
dibenzo(a,h)anthracene	7.5
ideno(1,2,3-cd)pyrene	75
asbestos	ND**

COCs – Contaminants of concern

mg/kg – milligrams per kilogram

ND – Non-detect

* 2,4,6-TNT cleanup goal is 1,935 ppm for MK 19 Range Soldier.

**asbestos cleanup goal is to non-detect; the detection limit for polarized light microscopy is 0.25%.



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2.0 DESCRIPTION OF REMEDIAL ACTION ACTIVITIES

Field activities at WBG Pads 61/61A, 67, and 70 were conducted during the following time periods:

Site Activity	Date
Site Setup	08/25/08 – 09/22/08
Pad 61/61A	09/23/08 – 11/06/08
Pad 70	11/06/08 – 11/11/08
Pad 67	11/06/08 – 12/15/08
Sample Point WBG-217 and Berm South of Pad 61	11/11/08 – 12/02/08
Load out Contaminated Soil Stockpile	01/27/09 – 03/06/09
Site Restoration	05/13/09 – 05/19/09

The following sections describe the RA field activities and analytical results. Unless otherwise noted, MKM implemented the procedures and technical approach described in the project SOW; the Final Remedial Action Work Plan (RAWP) (MKM, 2008c); and the Explosives Safety Submission, Revision 3, Amendment 3 (ESS) (MKM, 2008a); Site Safety and Health Plan (SSHP) (MKM, 2008d). The activities prescribed in these documents are summarized in the following subsections. Photo documentation of the WBG RA, along with the daily production summaries, are provided in the weekly field reports included in Appendix C.

2.1 Pre-Mobilization

Before mobilizing to the site, the MKM Field Superintendent verified that all applicable notifications and approvals had been obtained. MKM was required to comply with the requirements of the Ohio EPA Authorization for Storm Water Discharges Associated with Construction Activity under the National Pollution Discharge Elimination System (NPDES) per the Ohio Administrative Code (OAC) Rule 3745-38-06 (see permit in Appendix D); the Ohio EPA Notification of Demolition and Renovation (processed and enforced through the Akron Regional Air Quality Management District) as required for asbestos removal operations (Appendix E); the Ohio EPA MEC Demolition Notification (MKM, 2009a), as part of the permit requirements for the proposed remedial action activities (Appendix F); and the Explosives Safety Submission, Revision 3, Amendment 3 (ESS) (MKM, 2008a). The Ohio Department of



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Health was notified prior to asbestos abatement work (Appendix E). No other permits were required for the execution of the WBG RA.

2.2 Mobilization

Initial mobilization activities began on August 25, 2008. During the initial mobilization period, personnel arrived on site, met with the RVAAP personnel, and assembled the necessary vehicles and equipment. Mobilization and site setup were conducted according to Section 3.2 of the RAWP (MKM, 2008c). One project trailer was setup near the intersection of South Service Road and Paris Windham Road during the RA excavation operations, and one project trailer was set up near the processing area during load out of the contaminated soil stockpile. The soil sifting plant was established in the west central portion of the WBG indicated in the RAWP (see Appendix B, Figure 3). The sifting plant setup area was cleared of MEC by unexploded ordnance (UXO) professionals as described in Section 3.2.9 of the RAWP (MKM, 2008c), as well as the ESS (MKM, 2008a). The area was leveled, compacted, and the sifting plant constructed such that soil feed operations were established at the north end. Soil that had been processed through the sifting plant, and had MEC removed, was temporarily staged at the south end of the plant where processed soil exited the operation.

Site familiarization and training briefings were conducted from August 25 to August 27, 2008 and throughout the duration of field activities as new employees arrived on site. Topics covered included company policy, site history, MKM's previous experience at RVAAP, and current job requirements. Additionally, the RAWP (MKM, 2008c), the ESS (MKM, 2008a), and SSHP (MKM, 2008d) were reviewed and a safety briefing conducted. The route to the local hospital was explained. Equipment was inventoried, inspected, and issued to the field teams.

2.3 Field Operations

MKM accomplished the RA at WBG Pads 61/61A, 67, and 70 utilizing two field teams. One field team consisted of trained UXO professionals operating the soil sifting plant. The second team consisted of trained UXO professional and equipment operators conducting the soil excavating operations, QC functions, and site restorations. The field operations were conducted by MKM personnel in the categories shown in Table 2-1.



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TABLE 2-1: PERMANENT ON-SITE PERSONNEL

Labor Category	Quantity
Senior UXO Supervisor (SUXOS)	1
UXO Safety Officer (UXOSO)/ UXO Quality Control Specialist (UXOQCS)	1 ^a
UXO Team Leader (Sifting Plant)	1
UXO Technician (UXOT) 1, 2 &3	4
Equipment Operators	4
Laborers	1
TOTAL	12

^aThe UXOSO and the UXOQCS functions were combined.

2.4 Soil Excavation

All excavations followed the procedures described in the ESS (MKM, 2008a), in addition to the procedures described in the RAWP (MKM, 2008c). The Excavation Tracking Logs for each pad are included in Appendix G.

Although ACM (transite) was present in the soil at pads 61/61A and 70, the Ohio Department of Health did not consider soil excavation and processing operations an abatement operation. Therefore, the excavations were not required to be performed in accordance with State of Ohio (OAC3745-20) asbestos emission control regulations. However, the applicable Occupational Safety and Health Administration (OSHA) requirements, relative to personal protective equipment and exposure monitoring, did apply and were followed. The loadout of asbestos-contaminated soil for off-site disposal was considered an asbestos abatement operation and was conducted in accordance with Federal (40 Code of Federal Regulations (CFR) Part 61, Subpart M) and State of Ohio (OAC3745-20) asbestos emission control regulations as described in Section 3.13.1.2 of the RAWP (MKM, 2008c).

2.4.1 Excavation at Pad 67

MKM extended the existing excavation at Pad 67 to remove the adjacent soils where it was determined RDX concentrations exceeded WBG site cleanup goals as described in the WBG ROD (SAIC, 2008). Excavation at Pad 67 began on November 6 and was completed on December 15, 2008. A total of 90 cubic yards of additional soil was removed to a finished depth of 2 feet bgs. A summary of the soil quantities removed during the excavation at Pad 67 is included in Appendix H, Table H-1. Photo documentation of the WBG RA operations at Pad 67 is provided in the weekly reports contained in Appendix C.

It should be noted that, during survey operations to verify location of the sample points, it was discovered that WBG-105 had been incorrectly labeled in the 2005 WBG Focus Feasibility Study for Winklepeck. The correct sample point identification number is WBG-401. The



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specific details and clarification relative to this change are provided in the 5 September e-mail correspondence contained in Appendix I.

Upon excavation, all material from the Pad 67 area was processed as described in Section 3.4 of the RAWP to remove potential MEC items. Once processed, the material was consolidated within the stockpile at the process area. The initial 40-cubic-yard excavation at Pad 67 was completed on November 6, 2008. To determine the need for any additional excavation, MKM collected multi-increment (MI) confirmation soil samples from the bottom and sidewalls of the excavation. Field forms and laboratory analytical results are included in Appendix J of this report. All MI confirmation samples were analyzed in the laboratory for RDX under Method 8330. MI sampling was performed following the procedures implemented during the environmental remediation operations performed at this location during the 2005 Phase II MEC Clearance and Munitions Response operations and described in the Phase II Work Plan (MKM, 2005a).

All Pad 67 confirmation samples were being analyzed for RDX by Method 8330. The Method 8330 analysis is capable of detecting several other explosives constituents, however, it was requested that the laboratory only report RDX detections because RDX was the only explosives contaminant of concern identified during the Remedial Investigation (SAIC, 2005a). During the November confirmation sample analysis by Method 8330, the laboratory noticed an elevated concentration of TNT and communicated the finding to MKM. A clean-up number for TNT was generated and ultimately approved by USACE and Ohio EPA. Ohio EPA made the determination that the preparation of a formal Explanation of Significant Differences (ESD) for the signed ROD was not required. Instead, the decision was made to document the TNT clean-up number in this remedial action completion report. Because of the generation of a TNT clean-up number, it was determined that the excavation at Pad 67 would need to be expanded. On December 15, 2008, 50 cubic yards of additional soil were removed from the Pad 67 excavation area. Prior to initiating the additional excavation operations, runoff water that had collected in the excavation cavity was removed and containerized for subsequent waste characterization sampling and disposal. A copy of the disposal records for the Pad 67 runoff water is provided in Appendix K. Upon completion of the Pad 67 over-excavation operations, confirmation MI soil samples were collected from the bottom and sidewalls of the excavation for TNT analysis. Field forms and laboratory analytical results are included in Appendix J of this report.

Upon review of the TNT confirmation sample results, the Ohio EPA required the collection of additional floor and sidewall samples for polycyclic aromatic hydrocarbon (PAH) analysis. An additional MI soil sample was collected from the bottom and sidewalls of the excavation on January 12, 2009, to verify no PAH contamination was present at concentrations greater than the WBG cleanup goals. Field forms and laboratory analytical results are included in Appendix J of this report. On January 22, 2009, after reviewing the confirmation sample results for PAHs, the Ohio EPA acknowledged that the PAH results were below WBG cleanup goals and gave



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approval for backfilling the excavation (see e-mail correspondence, Appendix I). The extent of the final excavation is shown in Appendix B, on Figures 5 and 6.

The confirmation sample analytical results are summarized in Section 2.11, Table 2-3. As indicated in the table, the final Pad 67 confirmation sample analytical results are below WBG cleanup goals for all constituents.

The risk-based cleanup goals are concentrations that are considered safe for range maintenance soldiers (SAIC, 2008). Following concurrence from Ohio EPA that analytical results were less than risk-based cleanup goals and site conditions were conducive for restoration operations, the completed excavation was backfilled with approved clean soil from Freedom Materials, Ravenna, Ohio, on May 13, 2009. Sample results for the approved off-site fill material are provided in Appendix L. The site was then regraded, and seeded on May 19, 2009 using Camp Ravenna-approved seed mixtures.

The limits of the Pad 67 excavation were surveyed before backfilling to document the location, final dimensions, and depth. Additionally, following backfilling operations, the final elevation was also surveyed to document the total amount of fill that was added for reference, as needed, during future range construction and maintenance operations at this location. An electronic copy of the complete survey report (Computer-aided Design - CAD) is provided in Appendix M. Appendix B, Figure 6 provides an overview of the excavation limits at Pad 67.

2.4.2 Excavation at Pads 61/61A

Environmental contamination (primarily miscellaneous debris with lesser amounts of asphalt roofing shingles and transite) and MEC were found at and near Pad 61 during MEC removal activities for the MK 19 Range at the WBG. A MEC removal was conducted in areas where targets for the range were constructed. The MK 19 design called for excavation along firing Lane 1, at Pad 61, and the bermed areas adjacent to it. Additionally, a portion of Pad 61 at RI sample point WBG-217 required removal of previously documented surface soil contaminated with semi-volatile organic compounds (SVOCs).

In accordance with the scope of work, MKM removed approximately 4,494 cubic yards of soil from Pads 61 and 61A to eliminate the identified contamination and also provide required line of site for the down-range target that will be installed in the vicinity of these pads. A summary of the soil quantities removed during the excavation at Pads 61 and 61A is included in Appendix H in Table H-1. The excavation at Pads 61 and 61A began on September 23 and was completed on November 6, 2009. Photo documentation of the WBG RA operations at Pads 61 and 61A are provided in the weekly reports contained in Appendix C.

All soils excavated from Pads 61 and 61A were processed as described in Section 3.4 of the RAWP to remove potential MEC items. Once processed, the soil was consolidated within the stockpile at the process area. During the excavation operations at Pad 61A, an area



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approximately 100 feet long and 70 feet wide was over-excavated to 1 foot below the grade elevation required for construction of the down-range targets in order to remove remaining black-stained soils. All other areas at Pads 61 and 61A were excavated to the required elevations as detailed on the MK 19 Range Design Drawings C-4 and C-12C. The location and dimensions of the over-excavated areas within Pad 61 were surveyed and documented in the report contained in Appendix M.

Upon completion of the excavation operations at Pads 61 and 61A, the areas were visually inspected and sampled for asbestos by the asbestos supervisor to confirm all asbestos containing material (ACM) was removed before collecting the MI confirmation soil samples for TNT and SVOCs. At Pad 61A, a total of 2 MI soil samples were collected for asbestos from the bottom of the excavation. As the excavation did not have sidewalls, no sidewall samples were collected at Pad 61A. At Pad 61, a total of 2 MI soil samples were collected for asbestos analysis. One sample was collected from the bottom, and one sample was collected from the west and south sidewall. No sidewalls existed on the north or east side of the Pad 61 excavation. Copies of the asbestos supervisor's visual inspection reports are provided in Appendix N. Copies of the Pads 61 and 61A asbestos analytical reports are provided in Appendix O. Asbestos samples indicated no ACM is now present at Pad 61 and 61A.

Upon receipt of the asbestos results, the MI confirmation soil samples for SVOCs and RDX were collected from the bottom of the Pad 61A excavation (2 total) and bottom and sidewall areas at Pad 61 (2 total) for comparison to WBG cleanup goals. Due to the elevated TNT concentrations that were encountered at Pad 67, it was decided by all stakeholders to also report the TNT results at this location to ensure concentrations are below the WBG clean-up goals. Field forms and laboratory analytical results are included in Appendix J of this report. The confirmation sample analytical results are summarized in Section 2.11, Table 2-4. As indicated in the table, SVOCs and RDX concentrations in the final MI soil confirmation samples for both Pad 61 and 61A were less than WBG cleanup goals.

After reviewing the confirmation sample results, initially on January 22 and then reconfirmed on March 17, 2009 (see e-mail correspondence, Appendix I), the Ohio EPA acknowledged that the Pads 61 and 61A confirmation soil sampling results were less than WBG cleanup goals and gave approval for backfilling the excavation (see e-mail correspondence, Appendix I).

Backfilling (Pad 61A over-excavated area only) and regrading of Pads 61 and 61A were completed on May 13, 2009. The over-excavated area within Pad 61A was backfilled with approved clean soil from Freedom Materials, Ravenna, Ohio, on May 13, 2009. Sample results for the approved off-site fill material are provided in Appendix L. Following the backfill operations at Pad 61A, Pads 61 and 61A were regraded, seeded, and mulched on May 19, 2009 using Camp Ravenna-approved seed mixtures.

The limits of the Pads 61 and 61A excavation area were surveyed to document their location and final dimensions before initiating the site restoration activities. The survey also verified that



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the areas were excavated to the necessary grade required for future placement and construction of the down-range targets. Additionally, following the backfilling operations within the Pad 61A over-excavation area, the final elevation was also surveyed to document the total depth of fill for reference during future range construction and maintenance operations at this location. A copy of the final survey report is provided in Appendix M of this report. Appendix B, Figure 5 provides an overview of the excavation limits at Pads 61 and 61A.

2.4.3 Excavation of Sample Location WBG-217 and Berm South of Pad 61

As identified in the FFS for WBG, the soils adjacent to Pad 61 at sample point WBG-217 (collected from the 2-to 4-foot interval) contained concentrations of SVOCs that exceeded WBG cleanup goals. Excavation operations were halted at this location during the 2005 Phase II MEC Clearance and Munitions Response operations upon encountering an unexpected amount of environmental contamination (i.e., buried debris and stained soils) that extended beyond the scope of the planned remedial action at this location. For additional information regarding the excavation and sampling operations at WBG Pad 61, refer to Section 3.0 of the MKM December 2005 final report for the Phase II MEC clearance and munitions response at WBG (MKM, 2005c).

The former location of sample WBG-217 was excavated to remove the soils where SVOC concentrations exceeded WBG site cleanup goals. During over-excavation of the sampling point, large amounts of environmental contamination (miscellaneous debris including asphalt roofing shingles, munitions debris, and transite) were encountered that extended into the large berm located south of Pad 61 and immediately adjacent to sample point WBG-217. Based on the site conditions, it was decided by all stakeholders that the entire berm would need to be excavated in order to ensure all the contamination was removed from the area. As such, a total of 2,000 cubic yards of material was removed from the berm area, including the location of sample WBG-217.

A summary of the soil quantities removed during the excavation of sample point WBG-217 and the berm south of Pad 61 is included in Appendix H, Table H-1. The excavation operations began on November 11 and were completed December 2, 2008. Photo documentation of the WBG RA operations at these locations are provided in the weekly reports contained in Appendix C. All excavation operations were conducted following the excavation and remediation procedures described in Phase II Work Plan (MKM, 2005a) and the RAWP (MKM, 2008c).

Upon completion of the excavation operations at sample point WBG-217 and the berm south of Pad 61, the area was visually inspected and sampled for asbestos by the asbestos supervisor to confirm all ACM was removed before collecting of the MI confirmation soil samples for explosives and SVOCs. One MI soil sample was collected for asbestos from the bottom of the excavation. As the excavation did not have sidewalls, no sidewall samples were collected from the area. Given the trace amounts of asbestos identified in the initial confirmation sample analytical report, the entire berm area, including the location of WBG-217, was over-excavated



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by 6 inches, inspected, and re-sampled for asbestos as per the RAWP. The second round of sampling indicated no ACM was present. Copies of the asbestos supervisor's visual inspection reports are provided in Appendix N. Copies of the asbestos analytical reports are provided in Appendix O.

Upon receipt of the asbestos sample, the MI confirmation soil samples for SVOCs, RDX, and TNT were collected from the footprint of the excavation area for comparison to WBG cleanup goals. MI sampling was performed following the procedures implemented during the environmental remediation operations performed during the 2005 Phase II MEC Clearance and Munitions Response operations as described in the Phase II Work Plan (MKM, 2005a). Field forms and laboratory analytical results are included in Appendix J of this report. The confirmation sample analytical results are summarized in Section 2.11, Table 2-5. As indicated in the table, concentrations of SVOCs, RDX and TNT in the final MI sample for the former berm location (including WBG-217) are less than WBG cleanup goals.

On March 17, 2009 (see e-mail correspondence, Appendix I), after reviewing the confirmation sample results, the Ohio EPA acknowledged that the WBG RA confirmation soil sampling results were below WBG cleanup goals and gave approval for backfilling the excavation.

No backfill was required for the restoration of the former berm area south of Pad 61, including WBG-217. The area was regraded on May 13 and seeded and mulched on May 19, 2009, using Camp Ravenna-approved seed mixtures.

Before initiating the site restoration activities, the limits of the entire berm excavation area (including WBG-217) were surveyed to document their location and final dimensions for use, as needed, during future range construction and maintenance operations. A copy of the final survey report is provided in Appendix M. Appendix B, Figure 5 provides an overview of the excavation limits of the berm area south of Pad 61.

2.4.4 Excavation at Pad 70

Transite was present in the existing soil stockpile staged at Pad 70, and removal of the soil was the remedy selected in the ROD for WBG (SAIC, 2008). Excavation at Pad 70 began on November 6 and completed on November 11, 2008. A total of 800 cubic yards of soil was removed during excavation operations at Pad 70. A summary of the soil quantities removed during the excavation operations at Pad 70 is included in Appendix H in Table H-1. Photo documentation of the WBG RA operations at Pad 70 are provided in the weekly reports contained in Appendix C.

All material excavated from Pad 70 area was processed as described in Section 3.4 of the RAWP to remove potential MEC items. Once processed, the material was consolidated within the stockpile at the process area.



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After excavation operations at Pad 70 were complete, the area was visually inspected and sampled for asbestos by the asbestos supervisor to confirm all ACM was removed before collecting of the MI confirmation soil samples for SVOCs and RDX. One MI soil sample was collected for asbestos from the surface of the completed excavation. As the excavation did not have sidewalls, no sidewall samples were collected from the area. The asbestos sampling results indicated no ACM is now present. Copies of the asbestos supervisor's visual inspection reports are provided in Appendix N. Copies of the asbestos analytical reports are provided in Appendix O.

Upon receipt of the asbestos sample results indicating that no ACM is present, the MI confirmation soil samples for SVOCs and RDX were collected from the footprint of the Pad 70 excavation area for comparison to WBG cleanup goals. Due to the elevated TNT concentrations that were encountered at Pad 67, it was decided by all stakeholders to also include analysis for TNT along with the SVOCs and RDX COCs identified in the Work Plan. MI sampling was performed following the procedures implemented during the environmental remediation operations performed during the 2005 Phase II MEC Clearance and Munitions Response operations as described in the Phase II Work Plan (MKM, 2005a). Field forms and laboratory analytical results are included in Appendix J of this report. The confirmation sample analytical results are summarized in Section 2.11, Table 2-6. As indicated on the table, the concentrations of SVOCs, RDX and TNT in the final MI soil confirmation sample for Pad 70 were less than WBG cleanup goals.

After reviewing the confirmation sample results initially on January 22 and then reconfirmed on March 17, 2009 (see e-mail correspondence, Appendix I), the Ohio EPA acknowledged that the WBG RA confirmation soil sampling results were below WBG cleanup goals and gave approval for backfilling the excavation.

The completed excavation was backfilled with approved clean soil from Freedom Materials, Ravenna, Ohio, on May 13, 2009. Sample results for the approved off-site fill material are provided in Appendix L. The site was then regraded and seeded on May 19, 2009 using Camp Ravenna-approved seed mixtures.

The final elevation at Pad 70 was surveyed to be between 1 to 3 feet below the SOW-estimated target elevation of 999 feet. Prior to initiating the site restoration operations, PIKA informed the OHARNG Range Supervisor of the final elevations at this location. The OHARNG Range Supervisor indicated the finished elevation at Pad 70 is sufficient as it matches surrounding site elevations and will work well for future range construction activities in this area. Additionally, per the request of the Range Supervisor, one load of backfill (Freedom Materials) was added to the Pad 70 area to ensure positive drainage to the south. To that end, the area was regraded on May 13 and seeded and mulched on May 19, 2009 using Camp Ravenna-approved seed mixtures.



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Following the backfill and grading operations, the limits of the Pad 70 excavation area were surveyed, including the finished elevations for use, as needed, during future range construction and maintenance operations. A copy of the final survey report is provided in Appendix M. Appendix B, Figure 5 provides an overview of the excavation limits of the berm area south of Pad 61.

2.5 Excavated Soil and MEC Separation

The WBG RA soil and MEC separation process followed the procedures described in the Phase II Work Plan (MKM, 2005a), the Final Amended ESS (MKM, 2008a), and the RAWP (MKM, 2008c). A schematic of the sifting operations is presented in Appendix B, Figure 4. Photographs of the sifting operation are included in the weekly reports in Appendix C.

2.6 MEC Items Recovered

A total of 19 MEC items were recovered during the RA activities. A summary of the items recovered is presented in Table 2-2. All items were placed at RVAAP storage Igloo 1501 until they were disposed of by detonation at RVAAP OD-2.

TABLE 2-2: RECOVERED MEC ITEMS

MEC Item	Total Number Recovered
Mark II Hand Grenade	1
Mark II Hand Grenade (No Fuse)	1
40 mm Practice Grenade	3
Point Detonating Fuzes (T-Bar)	6
Point Detonating M52B1	3
Grenade Fuses	4
Base Detonating Fuze	1
TOTAL	19

A total itemized list of all recovered MEC items is presented in the MEC Tracking Log in Appendix F, Table F-1. No recovered items were determined to be unsafe to move.

2.7 MEC Demolition Activities

The Ohio EPA Notification for MEC Demolition and Disposal Operations (Appendix E of the Amended ESS) was completed prior to initiating site activities. MKM recovered a total of 19 MEC items during the RA field activities. A summary of MEC items recovered is presented in Appendix F, Table F-1. All 19 MEC items were demolished on January 21, 2009. Photo documentation of the WBG RA MEC demolition operations is provided in the weekly reports contained in Appendix C.



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Following the MEC demolition operations and in accordance with the Ohio EPA Notification for MEC Demolition and Disposal Operations, a total of four MI post-demolition soil samples were collected February 10, 2009 check for any potential impact to surface soils as a result of site activities. Additionally, one duplicate soil sample was collected for quality assurance purposes. The soil samples consisted of one MI sample from the surface (0-1 foot bgs) of each quadrant of the 100-foot by 100-foot MEC demolition area as shown in Appendix B, Figure 7. All MI soil samples were analyzed for explosives, TAL metals and propellants. Appendix F, Table F-2 summarizes all the MI soil samples collected following the MEC demolition activities. As detailed in the Ohio EPA Notification for MEC Demolition and Disposal Operations, surface water samples from Sand Creek were not required during the MEC demolition operations due the small amount of MEC items and the short duration of the operation. E-mail correspondence further clarifying the MEC demolition sampling requirements is provided in Appendix I.

The MI sampling operations were conducted in accordance with the previously approved Field Sampling and Analysis Plan (FSP), Quality Assurance Project Plan (QAPP), and Addendum to the MEC Clearance and Munitions Response for Winklepeck Burning Grounds at the RVAAP (MKM Engineers, March 2005b). Copies of the MI soil sampling field reports and laboratory analytical results for all the post-demolition surface soil samples are provided in Appendix F.

There was no contamination detected in post-operation sampling and no additional soil removal was required. Table F-2 in Appendix F summarizes the post-demolition soil sample results compared to the post demolition samples collected following the most recent RVAAP MEC demolition operations (i.e., current baseline limits). Table F-2 documents that the results for post-demolition MI soil samples for each quadrant of the 100-foot by 100-foot MEC demolition site are within the previously approved baseline limits.

2.8 Inspection and Certification of MD and Scrap Metal

All scrap metal, recovered during the WBG RA activities, was 100 percent inspected to ensure the absence of explosive materials. All non-MD scrap items were secured in standard rolloff containers. All MD scrap items were secured in lockable rolloff containers. Inspection and/or certification of all metals was conducted as described below.

1. UXO Technician IIs performed a 100 percent inspection of each item to determine whether the item contained explosive hazards. Items that required reprocessing were segregated from those items ready for certification.
2. UXO Technician IIIs performed a 100 percent re-inspection of each recovered item to determine whether it was free of explosives hazards.
3. UXO Quality Control Specialist (UXOQCS) conducted daily audits of the procedures used by UXO teams and individuals for processing MD and non-MD scrap, and performed a 10 percent random sampling of all material potentially presenting an explosive hazard (MPPEH) collected to ensure that no items with explosive hazards



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existed as required for completion of the Requisition and Turn-in Document, DD Form 1348-1A. Additionally, the UXOQCS then verified that the MPPEH inspection process was followed.

4. The SUXOS performed a 100 percent re-inspection of all recovered items and completed a Requisition and Turn-in Document, DD Form 1348-1A for all MD to be transferred for final disposition. The following certification/verification is included on each DD Form 1348-1A:

This certifies and verifies that Munitions Debris and/or Explosive Contaminated Property listed has been 100 percent properly inspected and, to the best of our knowledge and belief, are free of explosive hazards

Copies of the completed DD Form 1348-1A are provided in Appendix P.

2.9 Disposition of Non-MD Scrap and MD Scrap Metal

A total of 33,460 pounds of non-MD scrap metal was shipped to Mercer Company in Sharon, Pennsylvania, for recycling. Copies of the non-MD scrap metal 5X certification letters, Bills of Lading and weight tickets are included in Appendix P of this report.

Following inspection and 5X certification procedures, a total of 15,900 pounds of MD scrap items was transported to the Belson Steel Center Scrap Inc. smelter located in Bourbonnais, Illinois, for off-site recycling as scrap metal. Transfer and transport of all MD scrap items were performed under of chain-of-custody control using the MPPEH /Range Residue Inspection, Certification, and Chain of Custody forms. Copies of all the MPPEH/Range Residue Inspection, Certification, and Chain of Custody forms for the smelter, including a letter from the smelter certifying proper handling and destruction of the materials are included along with the copies of the respective DD Form 1348-1A in Appendix P.

2.10 Material Handling and Transport

Two primary waste streams were generated during excavation activities: solid and liquid wastes. Waste characterization determined whether a waste was hazardous or non-hazardous and dictated the disposal option and facility where the waste was disposed.

2.10.1 Solid Waste

Solid wastes generated as part of this removal action consisted of contaminated soils and dry sediments. All project-generated solid wastes were disposed of in accordance with local, state, and federal rules, laws, and regulations.



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2.10.1.1 Stockpiling at the Site

Excavated soils were stockpiled and stored within the process area temporarily before being transported to an approved disposal facility. At the end of each day, the stockpile was covered with a one piece, heavy duty canvas tarp and secured to prevent wind damage to the cover and stockpile. The polyethylene liner on each stockpile was inspected daily to ensure that it was properly secured.

Storm water controls for the protection of the stockpile areas were performed in accordance with Section 5.0 of the RAWP (MKM, 2008c). Silt fence was placed around the perimeter of the stockpiles to control storm water run-off or run-on.

2.10.1.2 Loadout to the Disposal Facility

Outloading of the processed contaminated soil stockpile, for off-site disposal, was initiated on January 27 and completed April 28, 2009. Photo documentation of the WBG RA soil loadout operations is provided in the weekly reports contained in Appendix C. Given the presence of transite materials within site soils at the WBG RD/RA excavation sites, all the stockpiled soil and debris were loaded, transported, and disposed of off-site as non-hazardous, friable asbestos-contaminated material (special waste). As such, all stockpile removal operations were conducted in accordance with Federal (40 CFR Part 61, Subpart M) and State of Ohio (OAC3745-20) asbestos emission control regulations.

All contaminated stockpile removal operations were performed under supervision of a certified asbestos supervisor. The stockpile was loaded out using a track-mounted excavator. The heavy machinery was equipped with closed cabs to minimize potential for exposure to contaminated media. Soil was loaded into double-lined (12 millimeter thickness total) trucks in designated areas only with adequate spill control measures, including equipment to catch and contain spillage, and equipment necessary to recover spillage and clean the area. Disposable sheeting was placed on the ground around trucks to catch any incidental spillage during loading. Personnel and area monitoring were performed during loadout operations to verify emissions were maintained within acceptable health and safety limits.

Before loading, trucks were inspected and surveyed for damage and residual contamination by MKM personnel. Daily vehicle inspections were performed prior to loading. Inspections were conducted from the ground only.

During loadout operations, materials were loaded into the transport vehicle in a uniform manner and distributed over the full length of the vehicle. Once loading was complete, trucks were inspected from the ground for loose or escaping soil before leaving the loadout area. The liners were then sealed and the load was covered with a tarp. Only authorized personnel performed the inspection, and all truck drivers were directed to remain in their vehicle until the vehicle had been properly decontaminated and had left the loadout area.



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Transport vehicles had all required labeling and licensing and were double-lined in accordance with applicable federal, state, and local rules, laws, and regulations. Before transport off-site, haul vehicles were manifested and inspected for proper marking and labeling information. A returned signed copy of each manifest provided by the disposal facility was retained by the generator and MKM for record keeping purposes. A tracking log for all soil waste shipped for disposal is included in Appendix H, Table H-2.

After all soil stockpile material had been shipped, the stockpile footprint was visually inspected and sampled for asbestos by the asbestos supervisor to confirm all ACM was removed before initiating site restoration operations. Prior to collecting the samples, the stockpile footprint was divided into four quadrants to facilitate the sampling operations. One MI soil sample was collected from each quadrant for asbestos analysis (4 total samples). The initial asbestos sampling results indicated trace ACM was present within the stockpile footprint. As a result, 6 inches of soil were over-excavated from the stockpile footprint and resampled for asbestos. One additional over-excavation and sampling episode (2 total) was required to remove all trace amounts of detected ACM. Copies of the asbestos supervisor's visual inspection reports are provided in Appendix N. Copies of the asbestos analytical reports are provided in Appendix O.

During collection of the asbestos MI soil samples, at least 30 soil aliquots were collected at random locations from within each quadrant of stockpile footprint area. Each random aliquot consisted of 1 to 2 ounces of soil and was collected at a depth of less than 3 inches below the surface. The 30 aliquots were composited into one MI sample (4 total – one from each quadrant); however, air drying, sifting, and grinding were not conducted on these samples because of the possible presence of asbestos. The asbestos sample was forwarded to an off-site laboratory for asbestos analysis using polarized light microscopy (PLM).

It should be noted that AMA Analytical Services, Inc. (AMA), located in Lanham, Maryland, was contracted by PIKA to perform all the WBG RA asbestos analysis. During the stockpile sampling operations, it was discovered that the AMA detection limit is $\leq 1\%$ for asbestos and, therefore, they were unable to report non-detect for any of the asbestos samples. AT Laboratories, located in Boardman, Ohio, was then contracted to confirm that all RA excavation and stockpile footprint samples were non-detect for asbestos. On April 20, 2009, each of the RA excavation sites were resampled for asbestos, as previously described, to verify no ACM is present and report as such. All samples were collected following the MI sampling procedures described in sections 2.4.2, 2.4.3, 2.4.4 and 2.9.1.2. All resamples confirmed that ACM concentrations are non-detect (i.e., result was not detected at or above method detection of 0.25%) at all of the RA excavation sites; including the stockpile footprint area. Copies of all the asbestos sampling reports from AT Laboratories are included in Appendix O. Confirmation sample results from the stockpile footprint are included in Appendix Q. A log of waste shipments is included in Appendix H, Table H-2.

Following completion of all the loadout and confirmation sampling operations, both the process area and stockpile staging area were regraded to ensure positive drainage, seeded, and mulched using Camp Ravenna-approved seed mixture. No backfill material was required for



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the restoration of these areas. The restoration operations at the stockpile staging area and processing area were conducted from May 13 through May 19, 2009.

2.10.2 Liquid Waste

Liquid waste consisted of accumulated precipitation within the Pad 67 excavation and resultant decontamination water from the RA confirmation sampling operations. The collected runoff water from the Pad 67 excavation was collected and pumped directly into labeled, Department of Transportation (DOT)-approved 55-gallon drums for sampling and disposal. The decontamination wash water was added to drummed excavation water to facilitate proper disposition. All the drummed liquids were disposed of at Spartan Environmental, New Castle, Pennsylvania, as non-hazardous waste water. Copies of all the WBG RA waste water disposal records are included in Appendix K.

2.10.3 Waste Disposal

Off-site disposal facilities were selected based on waste characterization data collected from the applicable waste stream. None of the excavated soils or collected waste water exceeded toxicity characteristic leaching procedure (TCLP) limits and, therefore, did not require stabilization prior to off-site shipment. All the excavated soils from Pads 61, 61A, 67, and 70 were disposed of as non-hazardous, friable ACM at American Landfill, Inc., Waynesburg, Ohio, in accordance with all applicable federal, state, and local rules, laws, and regulations. There were no hazardous wastes sent for off site disposal during the WBG RA operations.

2.11 Confirmation Sample Analytical Results

Summaries of the analytical results for the confirmation samples collected from the excavations at WBG Pads 67, 61/61A, the berm south of Pad 61, and 70 are provided in Tables 2-3 through 2-6. All final confirmation soil sample concentrations were less than WBG cleanup goals.



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TABLE 2-3: WBG PAD 67 FINAL SOIL CONFIRMATION SAMPLE RESULTS

Analyte	WBG Cleanup Goal (mg/kg)	WBGcs-071/401m-FLR-SO	WBGcs-071/401m-SDW-SO	WBGcs-071/401m-FLR2-SO	WBGcs-071/401m-SDW2-SO	WBGcs-071/401m-FLR2-SO	WBGcs-071/401m-SDW2-SO
EXPLOSIVES mg/kg							
2,4,6-Trinitrotoluene	1935*	1500	1600	44	110	--	--
RDX	617	91	570	43	15	--	--
SVOC (PAHs) mg/kg							
Benzo(a)anthracene	75	--	--	--	--	0.031	0.90
Benzo(a)pyrene	7.5	--	--	--	--	0.033	1.00
Benzo(b)fluoranthene	75	--	--	--	--	0.040	1.60
Dibenzo(a,h)anthracene	7.5	--	--	--	--	ND	0.24
Indeno(1,2,3-cd)pyrene	75	--	--	--	--	0.022	0.75

* 2,4,6-TNT cleanup goal is 1935 ppm for MK 19 Range Soldier.

-- analysis not performed

mg/kg - milligrams per kilogram (parts per million)

ND - results were not detected at or above the stated limit

TABLE 2-4: WBG PAD 61/61A FINAL SOIL CONFIRMATION SAMPLE RESULTS

Analyte	WBG Cleanup Goal (mg/kg)	WBGcs-P61m-SDW-SO	WBGcs-P61m-SDW-DUP	WBGcs-P61m-BOT-SO	WBGcs-P61Am-BOT (E)-SO	WBGcs-P61Am-BOT (W)-SO
EXPLOSIVES mg/kg						
2,4,6-Trinitrotoluene	1935*	0.38	0.37	5.2	12	2.7
RDX	617	0.20 J	0.21 J	1.8	ND	0.089 J
SVOC (PAHs) mg/kg						
Benzo(a)anthracene	75	1.5	4.7	7.8	4.3	1.4
Benzo(a)pyrene	7.5	1.3	3.7	6.7	3.9	1.2
Benzo(b)fluoranthene	75	1.6	4.5	7.8	5.4	1.5
Dibenzo(a,h)anthracene	7.5	0.21	0.74	1.4	0.8	0.25
Indeno(1,2,3-cd)pyrene	75	0.74	2	3.4	2.3	0.66
Asbestos						
Asbestos		<1%**	<1%**	<1%**	<1%**	<1%**
Asbestos (04.20.09)		ND	ND	ND	ND	ND

Organic Analysis:

* 2,4,6-TNT cleanup goal is 1935 ppm for MK 19 Range Soldier.

-- analysis not performed

mg/kg - milligrams per kilogram (parts per million)

J - estimated result. Result is less than reporting limit

Asbestos Analysis:

** - Based on this type of heterogeneous sample, the limit of detection is 1%

ND = results were not detected at or above the stated limit of 0.25%



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TABLE 2-5: WBG BERM SOUTH OF PAD 61 FINAL SOIL CONFIRMATION SAMPLE RESULTS

Analyte	WBG Cleanup Goal (mg/kg)	WBGcs-P61m-BERM2-SO
EXPLOSIVES mg/kg		
2,4,6-Trinitrotoluene	1935*	0.078 J
RDX	617	0.30
SVOC (PAHs) mg/kg		
Benzo(a)anthracene	75	0.096
Benzo(a)pyrene	7.5	0.086
Benzo(b)fluoranthene	75	0.120
Dibenzo(a,h)anthracene	7.5	ND
Indeno(1,2,3-cd)pyrene	75	0.064
Asbestos		
Asbestos		NAD
Asbestos (04.20.09)		ND

Organic Analysis:

* 2,4,6-TNT cleanup goal is 1935 ppm for MK 19 Range Soldier.

mg/kg - milligrams per kilogram (parts per million)

J - estimated result. Result is less than reporting limit

ND – results were not detected at or above the stated limit

Asbestos Analysis:

NAD - "No Asbestos Detected"

ND = results were not detected at or above the stated limit of 0.25%

TABLE 2-6: WBG PAD 70 FINAL SOIL CONFIRMATION SAMPLE RESULTS

Analyte	WBG Cleanup Goal (mg/kg)	WBGcs-P70m-SFC-SO
EXPLOSIVES mg/kg		
2,4,6-Trinitrotoluene	1935*	12
RDX	617	18
SVOC (PAHs) mg/kg		
Benzo(a)anthracene	75	0.31
Benzo(a)pyrene	7.5	0.31
Benzo(b)fluoranthene	75	0.48
Dibenzo(a,h)anthracene	7.5	ND
Indeno(1,2,3-cd)pyrene	75	0.18
Asbestos		
Asbestos		<1%**
Asbestos (04.20.09)		ND

Organic Analysis:

* 2,4,6-TNT cleanup goal is 1935 ppm for MK 19 Range Soldier.

mg/kg - milligrams per kilogram (parts per million)

ND – results were not detected at or above the stated limit

Asbestos Analysis:

** - Based on this type of heterogeneous sample, the limit of detection is 1%

ND = results were not detected at or above the stated limit of 0.25%



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2.12 Data Analyses and Quality

This section briefly describes the data quality procedures that were followed during the WBG environmental remedial actions, and then discusses the quality of the data collected.

2.12.1 Laboratory Analysis

Analytical laboratory procedures followed all applicable professional standards, EPA requirements, government regulations and guidelines, and specific project goals and requirements. The laboratory subcontracted for the chemical analysis of the soil samples was Test America, North Canton, Oregon. The laboratory is a USACE-approved facility, certified to perform soil, water, and hazardous waste analysis. Final asbestos confirmation samples were analyzed at Assay Technology, in Boardman, OH, an American Industrial Hygiene Association certified laboratory.

Samples were analyzed according to the revised RVAAP Facility-Wide Sampling and Analysis Plan (SAP) (SAIC, 2001c), and the RAWP (MKM, 2008c). The data quality objectives (DQOs) established for the WBG environmental remedial action comply with EPA Region V guidance. The requirements for sample collection, handling, analysis criteria, target analytes, laboratory criteria, and data validation criteria at WBG are consistent with EPA requirements for National Priority List (NPL) sites. DQOs for this project included analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity for the measurement data.

The analytical laboratories were required to adhere strictly to the SAP to ensure good quality data would be provided. The laboratory was required to perform all analyses in compliance with EPA SW-846 (EPA, 1990), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods analytical protocols. EPA SW-846 chemical analytical procedures were followed for the analyses of SVOCs and explosives. Laboratories were required to comply with all methods as written; recommended procedures suggested in the methods were considered to be requirements.

The requisite number of QA/quality control (QC) samples was obtained during the WBG environmental RA. QC samples for this project included equipment rinses, field duplicates, laboratory method blanks, laboratory control samples, laboratory duplicates, and matrix spike/matrix spike duplicate (MS/MSD) samples. These samples were collected to meet the following requirements:

- Laboratory method blanks and laboratory control samples were employed to determine the accuracy and precision of the analytical method as implemented by the laboratory.
- Matrix spike samples provided information about the effect of the sample matrix on the measurement methodology.



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- Laboratory sample duplicates and MS/MSDs assisted in determining the analytical reproducibility and precision of the analysis for the samples of interest.
- Equipment rinsate blanks were used to assess the adequacy of equipment decontamination processes for soil sample collection.
- Field duplicate samples were analyzed to determine sample heterogeneity and sampling methodology reproducibility.

Analytical data reports from the laboratories were forwarded to Purves Environmental for QA review, comparison, and validation. The QC results were evaluated and summarized in the WBG quality control summary report (QCSR) provided in Appendix R.

MKM will maintain the WBG environmental remediation project files, including all relevant records, reports, logs, field notebooks, pictures, subcontractor reports, correspondence, and chain-of-custody forms. These files will remain in the custody of the MKM Project Manager until they are transferred to BRAC-D and RVAAP. Upon final approval of the *Remedial Action Completion Report for Winklepeck Burning Grounds Pads 61/61A, 67, and 70*, final approval of completion of all contract requirements, all records will be forwarded to the Army at RVAAP Building 1037.

2.12.2 Data Review, Validation, and Quality Assessment

Samples were properly packaged for shipment and dispatched to Test America, Inc. for analysis under completed chain-of-custody forms. When transferring the possession of samples, the individuals relinquishing custody and the individual receiving the samples signed their names and noted the date and time of transfer on the record. All shipments complied with applicable DOT regulations for environmental samples.

Analytical data were produced, reviewed, and reported by the laboratory in accordance with specifications outlined in the WBG SAP and the laboratory's QA manual. Laboratory reports included documentation verifying compliance with sample log-in procedures, analytical holding times, and QC procedures for analyses. The laboratory reports also provided information pertaining to percent recovery attained in laboratory spike samples, calibration curves (initial and continuing), dilutions, and detection limits. The laboratory flagged suspect data if results warranted.

Test America performed in-house analytical data reduction under the direction of the Laboratory Project Manager and QA Officer. These individuals were responsible for assessing data quality and informing MKM of any data that were considered "unacceptable" or required caution on the part of the data user in terms of its reliability. This notification allowed MKM to determine the need for recollection or reanalysis of any samples to achieve DQOs.

Data reduction, review, and reporting by the laboratory were conducted as follows:



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- Raw data produced by the analyst were turned over to the analyst's supervisor.
- The supervisor reviewed the data for attainment of QC criteria as outlined in the established methods and for overall reasonableness.
- Upon acceptance of the raw data by the supervisor, a report was generated and sent to the Laboratory Project Manager.
- The Laboratory Project Manager reviewed all reports and, based on that review, generated final reports.
- The final data were delivered to MKM, who forwarded the packages to Purves Environmental for data validation.

Test America prepared and retained full analytical and QC documentation for the project in both hard (paper) copy and electronic storage media (e.g., magnetic tape) as directed by the analytical methodologies employed. Test America provided the following information to MKM in each analytical data package submitted:

- Cover sheets listing the samples included in the report and narrative comments describing problems encountered in analysis;
- Tabulated results of inorganic and organic compounds identified and quantified; and
- Analytical results for QC sample spikes, sample duplicates, initial and continuing calibration verifications of standards and blanks, method blanks and laboratory control sample information.

Upon receipt, MKM compared the data packages to the chain-of-custody forms to ensure all analyses had been conducted and results were provided. Purves Environmental reviewed 100 percent of the raw data, recalculated and validated 20 percent of the data, and examined 100 percent of the rejected data to ensure that the precision and accuracy of the analytical data were adequate for the intended use. The validation process minimized the potential of using false or negative results in the decision-making process and ensured that detected and non-detected compounds were accurately identified. This approach was consistent with the DQOs for the project and with the analytical methods, and appropriate for determining contaminants of concern and calculating risk.

The data validation determined that the data is 100 percent complete and usable, and that it satisfies the DQOs for this project. The data validation reports are presented in Appendix R.



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2.13 Site Restoration

Upon completion of the RA activities, final site restoration operations were initiated at the WBG RA pad locations, soil stockpile area, and MEC demolition area utilized at Open Detonation Area #2 on May 12 and completed May 21, 2009. Restoration activities included grading, seeding, and mulching. Additionally, all of the WBG interior haul roads that were used to transport excavated soils to the process area were regraded and backfilled (as needed) using railroad ballast from an on-site source. The main gravel haul road used during loadout of the contaminated soil stockpile (Greenleaf Road entrance) was regraded and backfilled, with crushed limestone road fill material (304s) from Freedom Materials in Ravenna, Ohio. All haul roads were restored to match pre-existing site conditions and to the satisfaction of the OHARNG.

2.14 Demobilization

The soil screening and conveyor separator equipment was disassembled and transported to a materials storage facility in Youngstown, Ohio. All heavy equipment, site trailers and miscellaneous tools were demobilized from the site. The final site walk with the project stakeholders was conducted on June 8, 2009. During the final walkthrough small amounts of non-MD scrap and one piece of MD scrap were noted within the former process area. To ensure all metal items were removed from the area, an excavator equipped with an electro-magnetic attachment was used to sweep the area on June 11, 2009. On July 16, 2009 MKM conducted a follow-on walk through of the former process area with OHARNG and the RVAAP Facility Manager. All parties concurred that the site cleanup and restoration were complete. The RVAAP Facility Manager also inspected the Open Detonation Area #2, which was used for demolition of recovered WBG RA MEC items, and informed MKM that the restoration of Open Detonation Area #2 was also complete.



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3.0 REMEDIAL ACTION PROJECT SCHEDULE

The final project schedule for the WBG RA is presented as Appendix B, Figure 8.

3.1 Chronology of Events

The following table summarizes the major events during the completion of the RA activities at Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

TABLE 3-1 CHRONOLOGY OF MAJOR REMEDIAL ACTION EVENTS

Major Events	Completion Date
Mobilize	August 25, 2008
Excavate Pad 61/61A to specified limits	October 27, 2008
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008
Excavate Pad 67	November 6, 2008
Collect confirmation samples at Pad 67	November 6, 2008
Collect confirmation samples at Pad 70	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)
Collect confirmation samples at Pad 61	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)
Exercise Additional Excavation options at berm south of Pad 61	November 24, 2008
Collect confirmation samples at berm south of Pad 61	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos
Over-excavate berm south of Pad 61 owing to presence of asbestos	December 3, 2008
Recollect and analyze confirmation samples at berm south of Pad 61	December 10, 2008
Over-excavate and resample Pad 67 Area	December 15, 2008
Receive analytical for Pad 67 over-excavation	December 22, 2008
USACE and Ohio EPA review Pad 67 over-excavation confirmation samples	January 7, 2009
Resample Pad 67 Area for PAH analysis	January 12, 2009
Receive Pad 67 PAH analytical	January 19, 2009
Ohio EPA review and concur for Pad 67 PAH analysis	January 22, 2009



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Demolish and dispose of MEC and clean up site	January 23, 2009
T&D of stockpiled soil	March 6, 2009
Conduct confirmation sampling and analysis of stockpile footprint	March 13, 2009
Receive concurrence confirmation, from the Ohio EPA, for site restoration at Pads 61/ 61A and 70	March 17, 2009
Over-excavate and resample stockpile footprint based on trace asbestos results	March 31, 2009
Receive stockpile foot print; resample results for asbestos	April 1, 2009
Hold conference call to discuss path forward for stockpile footprint based on asbestos results	April 17, 2009
Recollect asbestos sample at RA excavation to verify ND using new lab	April 20, 2009
Conduct round 2 of over-excavation and sampling of stockpile footprint	April 30, 2009
Receive asbestos results from round 2 of over-excavation at stockpile footprint	May 4, 2009
Restore Site	May 12 through May 21, 2009
Conduct final site walk with stakeholders	June 8, 2009
Conduct follow-on final site walk with stakeholders	July 16, 2009

3.2 Deviations from the Project Schedule

The following list summarizes deviations from the project schedule and the reasons for the deviations.

- The project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Because TNT was detected in confirmation sampling results and cleanup goals for TNT were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15, 2008 (50 cubic yards of additional soil removed). The results from the over-excavation were forwarded to USACE on December 22, 2008.
- On January 7, Ohio EPA indicated that an additional floor and sidewall sample were required from the Pad 67 area for PAH analysis. If the PAH results were below WBG cleanup goals, then the excavation could be backfilled, including Pads 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- On January 22, 2009, Ohio EPA indicated that PAH results were below WBG cleanup goals at Pad 67 and all excavation sites could be backfilled for site restoration, as needed. Backfilling and site restoration were delayed owing to inclement weather and site conditions.
- Heavy snows and poor road conditions delayed start of the loadout operations for the soil stockpile.



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- The asbestos sample for the stockpile footprint area indicated trace amounts of asbestos were present. The area required over-excavation (6-inch lifts) and resampling a total of two times per specifications in the RAWP (MKM, 2008c).
- During the final site walk with all stakeholders, small amounts of non-MD scrap and one piece of MD scrap were observed within the former process area. To ensure all metal items were removed from the area, an excavator equipped with an electro-magnetic attachment was used to sweep the area on June 11, 2009.
- MKM conducted a follow-on walk through of the former process area with OHARNG and the RVAAP Facility Manager on July 16, 2009. All parties concurred that the site cleanup and restoration were complete. The RVAAP Facility Manager also inspected the Open Detonation Area #2, which was used for demolition of recovered WBG RA MEC items, and informed MKM that the restoration of Open Detonation Area #2 was also complete.



4.0 DOCUMENTATION

4.1 Work Plan and Site Safety and Health Plan

The Remedial Action Work Plan (MKM, 2008c) and ESS (MKM, 2008a) detailed and supported all activities performed during the RA. The SSHP (MKM 2008d) provided detailed procedures to be used to protect workers, the general public, and the environment during the survey activities.

4.2 Supporting Information

The required supporting information for this RA at WBG Pads 61/61A, 67, and 70 is presented in the appendices as listed below.

APPENDIX A – Scope of Work and Modifications

APPENDIX B – Figures

APPENDIX C – Monthly and Weekly Field Reports and Photo Documentation - CD

APPENDIX D – Construction Storm Water Permit

APPENDIX E – Project Notifications

APPENDIX F – MEC Demolition Notification, MEC Tracking Log, and Post-Detonation Sampling Results

APPENDIX G – Excavation Progress Tracking Tables

APPENDIX H – Soil Stockpile Removal Summary

APPENDIX I – Project Correspondence

APPENDIX J – Field Forms and Analytical Data

APPENDIX K – Pad 67 Water Disposal Documentation

APPENDIX L – Fill Material Sampling Forms and Analytical Results

APPENDIX M – Pre-Excavation, Excavation Limit, and Restoration Grade Surveys - CD

APPENDIX N – Asbestos Visual Inspection Report

APPENDIX O – Asbestos Analytical Sampling Results and Field Sampling Forms

APPENDIX P – WBG Scrap Metal Disposal Records



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APPENDIX Q – Stockpile Removal Confirmation Sample Results

APPENDIX R – Data Validation Report

APPENDIX S – WBG Gate Access Log

APPENDIX T – Asbestos Air Monitoring Results

APPENDIX U – Lead Air Monitoring Results

APPENDIX V – WBG Excavation QC Logs

APPENDIX W – Daily Quality Control Reports - CD

APPENDIX X – Cumulative Signed Documentation/Correspondence

APPENDIX Y – Comment Response Table



5.0 SITE SAFETY

5.1 Project Safety

During all field activities, the UXOSO was primarily responsible for the safety of site personnel, the general public, and the environment. However, in agreement with the Phase II SSHP, all on-site personnel were tasked with ensuring their own personal safety, as well as the safety of their buddy and other team members.

As mandated by corporate policy, MKM is committed to providing all site personnel with the requisite information and resources needed to ensure site operations are conducted in a manner that protects site personnel from recognized, uncontrolled safety and health hazards. Therefore, during the development of the Phase II SSHP, MKM safety and health personnel attempted to anticipate, identify, evaluate, and design control measures for the safety and health hazards that could be encountered.

The levels of personal protective equipment (PPE) and the safe work practices and procedures specified in the project Phase II SSHP were based on the best available information from archival research documents, previous site studies, current site data, and professional experience. Site personnel, therefore, were cautioned that the requirements of the Phase II SSHP represented the minimum health and safety requirements to be observed by all personnel on this project.

To inform site personnel of the potential on-site hazards, a safety and health briefing was conducted prior to the initiation of hazardous site operations. Additionally, a tailgate safety briefing was conducted by the UXOSO prior to initiation of operations each day. Topics typically addressed in the safety briefings included MEC identification and hazard recognition, task-oriented hazard control procedures, weather conditions, and emergency response procedures.

Additional briefings and training were provided by the UXOSO to address task-specific operational procedures and ensure that all team personnel understood the requisite Phase II WP procedures and hazard control techniques to be applied.

During the conduct of on-site operations, the UXOSO was responsible for conducting safety inspections of the team on a daily basis. During these inspections, the UXOSO ensured that the team's work practices, PPE, equipment, and vehicles conformed to applicable safety and health standards as specified in the approved Phase II SSHP.

Access to the WBG entrance gate was monitored for safety and security reasons. The WBG Gate Access Log is included in Appendix S.

No safety-related incidents occurred during the RA.



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5.2 Personnel Air Monitoring

Air monitoring for asbestos was performed during tasks that involved handling material that was potentially contaminated with asbestos. Personnel air monitoring was performed during the preparation of trucks for asbestos-contaminated soil shipment, loading the trucks with asbestos-contaminated soil, and sealing the truck loads of asbestos-contaminated soil with plastic prior to transportation to a landfill. Personal and 30-minute excursion samples were taken for three days for the negative exposure assessment. All air samples were sent to Diamond Environmental in Ravenna, Ohio, and analyzed for asbestos by phase contrast microscopy in accordance with National Institute of Occupational Safety and Health (NIOSH) method 7400A. After reviewing the results of personnel air monitoring for asbestos, the conclusion was that if all conditions remained the same throughout the project, then no respirator protection for asbestos exposure was necessary. The results of the asbestos air monitoring sample analysis are included in Appendix T of this report.

Air monitoring for lead was performed during tasks that involved handling material that was potentially contaminated with lead. All air samples were analyzed for lead by NIOSH method 7300M at Galson Laboratories, in East Syracuse, New York. After reviewing the results of the personnel air monitoring for lead, the conclusion was that respirator protection was not required for these activities as it was determined lead concentrations were below the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) of 0.05 mg/m³. The results of the lead air monitoring sample analysis are included in Appendix U of this report.



6.0 QUALITY CONTROL

Quality control checks were performed by MKM's UXOQCS.

6.1 QC Tests of Excavations and Excavated Soil

All final WBG RA excavation bottoms and sidewalls were verified by the UXOQCS to be clear of MEC by visual inspection and screening the entire excavation using a Schondstedt magnetometer. All excavated soil processed through the sifting plant was verified by the UXOQCS to be clear of MEC utilizing the QA/QC procedures outlined in the approved RAWP (MKM, 2008c). Results from the UXOQCS were recorded on the WBG RA daily quality control reports. Copies of the daily quality control reports are provided in Appendix W. Copies of the WBG RA Excavation Q/C Logs are provided in Appendix V.

6.2 Daily Operational Tests

The daily QC routine also included, but was not limited to, inspecting the project field equipment and monitoring site activities. The detection equipment was field tested daily to ensure proper operation and to meet the objective of the SOW. All instruments used during the project met the performance standard each day. Daily Quality Control Reports are presented in Appendix W.



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7.0 RESULTS AND CONCLUSIONS

MKM excavated a total of 7,384 cubic yards of contaminated soil during RA field activities. A summary of the quantities of contaminated soil removed during the RA project is presented in Appendix H, Table H-1. All contaminated soil was shipped to American Landfill, Inc. Waynesburg, Ohio 44688, under disposal approval number 104699OH for disposal as non-hazardous, soil contaminated with friable asbestos. A total of 389 truckloads of soil were shipped during the Remedial Action.

MKM discovered a total of 19 MEC items during the RA field activities. A summary of MEC items recovered is presented in Appendix F. All 19 MEC items were detonated and disposed of.

Visual field observations and confirmation sampling were used to verify that the affected soils had been removed from Pads 61/61A, 67, and 70. All confirmation sample analytical results were below WBG cleanup goals for all constituents and asbestos was not detected in any of the confirmation samples.

All final WBG RA excavation bottoms and sidewalls (where present) were verified by the UXOQCS to be clear of MEC (surface cleared) by visual inspection and screening the entire excavation using a Schondstedt magnetometer. Results of the final excavation inspection were recorded on the WBG RA Excavation Q/C Logs (Appendix V).

Visual field observations and confirmation sampling for asbestos were used to verify that all ACM had been removed from the footprint of the soil stockpile area. The confirmation sample analytical results indicate no ACM is present.



8.0 RECOMMENDATIONS

The selected remedy for WBG Pads 61/61A, 67, and 70 was the excavation, removal, and disposal of contaminated soil. This was accomplished as detailed in the previous sections of this report. Visual field observations and confirmation sampling were used to verify that the affected soils had been removed from Pads 61/61A, 67, and 70. All confirmation sample analytical results were below WBG clean-up goals; and asbestos was not detected in any confirmation samples

LUCs for the WBG are specified in the final ROD and the approved Remedial Design (RD) and will also be specified in complete detail in the forthcoming Property Management Plan (PMP). The LUCs are enforceable under the Directors Final Findings and Orders (June 2004). The Remedial Action Objective of preventing exposure of the Mark 19 Range Soldier to site specific contaminants in soil has been achieved through the RA. Upon approval of this document the land is suitable to transfer to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range.



Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

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Ravenna Army Ammunition Plant, Ravenna, OH
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Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix A

Scope of Work and Modifications

Winklepeck Burning Grounds RD/RA
PERFORMANCE WORK STATEMENT – 20 June 2006
Ravenna Army Ammunition Plant, Ravenna, Ohio
Revised 12 July 2006

1.0 Introduction

The Contractor shall be responsible for fully executing the Firm Fixed-Price Remediation (FFPR) approach under a Performance-Based Contract (PBC) by: conducting required environmental restoration services for which the United States Department of the Army (the "Army") is statutorily responsible; addressing any and all unforeseen environmental¹, scheduling, and regulatory issues; and, assuming contractual liability and responsibility for the achievement of the performance objectives for cleanup sites at the Ravenna Army Ammunition Plant (RVAAP) (the "Facility") identified in this Performance Work Statement (PWS).

The Contractor must have the capability and experience to perform, or provide, a wide range of investigative, remedial design, remedial construction, and remediation services required for hazardous substance and waste sites.² Work will include remedial design, remedial construction, and remediation of contaminated sites.

It is the Contractor's responsibility to comply with all applicable federal, state and local rules, laws and regulations and to fulfill the performance objectives of this PWS in a manner that is consistent with any applicable orders or permits, all existing and future cleanup agreements or guidance for the Facility, and relevant Department of Defense (DoD) and Army policy, for the duration of the contract.

The Contractor must perform all the necessary environmental remediation work as required to meet the performance objectives of this PWS. Remediation is being conducted pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), and National Oil and Hazardous Substances Contingency Plan (NCP) requirements, with regulatory coordination, as appropriate, with the Ohio Environmental Protection Agency (Ohio EPA). Additionally, the Army and the Ohio EPA journalized The Directors Final Findings and Orders (DFFO) on June 10, 2004 that detail additional requirements for the performance of activities related to the Facility Restoration program.

This contract will be awarded on the basis of a Best Value Evaluation. The Army intends to make the award selection without discussions. The proposal must be complete and contain the Contractors most favorable terms. Evaluation and rating criteria are presented in Attachment D. A site visit will be held on 06 July 2006. Contractors are strongly urged to attend.

2.0 Performance Objectives and Standards

The Feasibility Study and Proposed Plan for Winklepeck Burning Grounds (WBG) have been finalized. The Record of Decision is currently in draft form and is expected to be finalized by September 2006. This contract award covers the preparation of the Remedial Design (RD) and execution of the Remedial Action (RA) in accordance with requirements specified in Section 1.0. The Base contract will include a contract line item (CLIN) for overall project management and the preparation of a Project Management Plan, the RD, and the RA for the removal and disposal of up

¹ "Unforeseen environmental issues" include unknown and/or varied concentrations of contaminants at cleanup sites (off-Facility areas included) identified in this PWS, but not unknown sites (e.g., sites not identified in this PWS).

² Under this PWS the Contractor may perform Munitions and Explosives of Concern (MEC) work.

to 4,500 cubic yards (6682 tons) of contaminated soil/solid waste. An optional CLIN for the additional project management, design, removal and disposal of up to 2000 cubic yards (2970 tons) of contaminated soil/solid waste is also required for this PWS and will be exercised if necessary.

CLIN 1 - Overall project management and the preparation of a Project Management Plan.

CLIN 2 – RD completion

CLIN 3 - RA for the removal and disposal of up to 4,500 cubic yards of contaminated soil/solid waste (6682 tons).

CLIN 4 – Unit Price for additional project management, design, removal and disposal of up to 2000 yards (2970 tons) of contaminated soil/solid waste.

While details regarding the Ohio Uniform Environmental Covenants Act (UECA) and Land Use Controls (LUC) are currently being negotiated with the Ohio EPA, the selected contractor will proceed with the substantive RD work requirements upon contract award. The approved RD language regarding the UECA and implementation of LUCs will be provided by the Army.

Additionally, a Mark-19 grenade machine gun range (MK-19) is currently under construction at the WBG by the Ohio Army National Guard (OHARNG). The selected contractor will be required to coordinate all site activities with the OHARNG and Army so as not to constrain any MK-19 range construction or operational activity.

The performance objectives and standards for this PWS are outlined in Table 1.

<i>Table 1: Performance Requirements Summary.</i>	
Performance Objective	Performance Standards
Achieve Remedy In Place (RIP) at the site ³ by 30 September 2007. RVAAP-05: Winklepeck Burning Grounds	Compliance with DFFO and associated schedule. Army approval, through the Contracting Officer's Representative (COR), Ohio EPA approval.

- RIP will be attained upon the finalization of appropriate written documentation certifying that site remediation has met identified response objectives.

There may be multiple milestones and/or deliverables for each performance objective (see Section 3.4 and Section 7.0). Partial payments will be based on successful completion of the milestones. Final decisions regarding the adequacy of milestone and deliverable completion resides with RVAAP's COR (see Section 5.1), with appropriate acceptance and approval of necessary site remediation documentation by regulators, consistent with the applicable regulatory drivers listed in Section 1.0 of this PWS.

³ The current status of the remediation efforts for WBG can be found in Section 6.0: Facility and Site Information. Additional documentation is provided with the Request for Quotation (RFQ) package.

3.0 Project Management

The PBC approach requires careful coordination of project activities to ensure that all stakeholders are kept informed of the project status, existing or potential problems, and any changes required to prudently manage the project and meet the needs of the Facility's project stakeholders and decision-makers. Additional requirements for the management and execution of all projects at the RVAAP are also contained in the DFFO. The Contractor shall be responsible for the following project management activities:

3.1 *Project Management Plan*

The Contractor shall develop and maintain a detailed Project Management Plan. The Project Management Plan, based on the schedule prepared as part of the Contractor proposal, shall specify the schedule, technical approach, and resources required for the planning, execution, and completion of the performance objectives. The first draft of the Project Management Plan shall be due within thirty (30) days of contract award. Elements of this draft Project Management Plan shall be part of the Contractors proposal submittal. The draft Project Management Plan and subsequent revisions shall be subject to stakeholder and review and approval. The final Project Management Plan shall be due within 30 days of receipt of stakeholder comments

As part of the Project Management Plan, the Contractor shall develop and maintain a Resource-Loaded Schedule (Primavera compatible) that fully supports the technical approach and outlines the due dates and cost expenditure percentages for all milestones and payable deliverables. A payment plan shall be included with the schedule that may allow for partial payments to the Contractor based on successful completion of interim milestones proposed by the Contractor. It is the Army's intent to make all payments after verification of progress in accordance with this schedule. Unless otherwise noted in Table 1, all performance objectives must be completed within the allowable contract period of performance provided all contract options have been exercised. The Contractor shall need to take into account the existing or future schedules developed under the applicable regulatory drivers listed in Section 1.0 of this PWS. The Contractor shall also coordinate activities with the COR to ensure that the proposed project schedule does not conflict with other contractor activities on site, or interrupt Facility mission activities.

As part of the Project Management Plan, the Contractor shall identify and implement a means for providing project status reports to the COR. The Project Management Plan shall address the frequency and content of status reports as defined in the DFFO as well as participate in biweekly scheduling calls. The Contractor will also be required to attend weekly Contractor meetings at the Facility while actively engaged in onsite work. The Contractor shall update the Project Management Plan to reflect progress towards achievement of the performance objectives and delineate proposed actions to accomplish future project milestones.

3.2 *Additional Site Plans*

Prior to beginning any field work the Contractor shall prepare any additional plans or documents (e.g., sampling and analysis plans, quality assurance project plan, waste minimization plans, health and safety plans) consistent with the applicable regulatory drivers listed in Section 1.0 of this PWS, and any other agreements, orders, or regulations that apply to the Facility and sites. These plans and documents shall be subject to Army review and approval, through the COR, and subject to regulatory agency review and approval pursuant to terms of the DFFO.

3.3 *Quality Management*

The Contractor must ensure that the quality of all work performed or produced under this contract meets Army approval, through the COR. Quality control/assurance plans must be prepared and approved by the COR prior to performance of physical work. All quality control/quality assurance plans are subject to regulatory agency review and approval pursuant to the terms of the DFFO.

Since the technical approach for this PBC shall be developed by the Contractor, the Contractor shall also develop a strategy for Army Quality Assurance (QA) to be submitted with the PMP. The QA strategy should highlight key quality control activities or events that the COR will use to determine when Army (COR or Contracting Officer (KO)) inspections can be conducted to assess progress toward milestones. Activities identified in the QA strategy should be appropriately coded in the project schedule to allow for planning of QA inspections. These activities shall also be incorporated into the Quality Assurance Surveillance Plan (QASP). The QASP will be developed by the COR, in consultation with the Contractor. The final QASP will be provided to the Contractor within thirty (30) days of receiving the final approved PMP.

3.4 *PWS Milestone Presentations*

PWS Milestone presentations shall be made to the COR at the completion of each PWS milestone below to provide analysis and lessons learned and to present approaches for completion of future milestones. At the COR's request, the Contractor may also make PWS milestone presentations to the other project stakeholders, consistent with the applicable regulatory drivers listed in Section 1.0 of this PWS, to show achievement of the performance objectives. This includes participation in annual Installation Action Plan (IAP) meetings, if requested by the COR.

The Contractor may propose a revision of the PWS milestones below to reflect their Project Management Plan and provide for interim PWS milestones. Interim PWS milestones will only be accepted if they represent significant progress toward PWS milestone completion, and completion of these interim steps can be measured and demonstrated. As noted in Section 2.0, partial payments will be tied to the successful completion of the following PWS milestones or an interim PWS milestone plan approved

by the Army, through the COR. To that end, all proposed interim PWS milestones should be associated with easily demonstrated metrics tied to performance measurements (e.g., final acceptance of a report rather than submission of a draft). All PWS milestones must have a defined means for demonstrating completion in order to facilitate certification and approval (see Section 5.1).

- Approval of the Project Management Plan
- Acceptance/approval of RIP at RVAAP-05

3.5 *Environmental Requirements*

The Contractor shall identify: applicable Federal, State and Local rules, laws and regulations; Facility-specific orders, agreements, or rules; and perform its work in accordance with said authorities. The Contractor shall ensure that all activities performed by its personnel, subcontractors and suppliers are executed in accordance with said

authorities. Any incident of noncompliance noted by the Contractor shall immediately be brought to the attention of the COR and Facility telephonically and then by written notice. Nothing in this contract shall relieve the Contractor of its responsibility to comply with applicable laws and regulations. The Contractor shall obtain all permits, licenses, approvals, and/or certificates required or necessary to accomplish the work. When the work to be performed requires facility clearances, such as digging or drilling permits, the Contractor shall obtain such clearances and/or permits, with the assistance of the COR and the RVAAP Facility Manager, prior to any drilling or excavating operations. The Contractor shall coordinate all such work with Facility personnel prior to performing work. Contractors on environmental sites are required to perform their own utility checks based on utility maps, which are available through the RVAAP Facility Manager. The Contractor shall comply with all Facility or site-specific time and procedural requirements (federal, state, and local) described in the permits obtained. The Army technical experts will also independently review Contractor work to ensure compliance with all applicable requirements.

3.5.1 Protection of Property

The Contractor shall be responsible for any damage caused to property of the United States (Federal property) by the activities of the Contractor under this contract and shall exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States damaged or destroyed by the Contractor incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the Contractor to a condition satisfactory to the COR or reimbursement is made by the Contractor sufficient to restore or replace the property to a condition satisfactory to the COR in accordance with FAR Clause 52.245-2.

3.6 Safety and Health Requirements

The Contractor shall implement a written Safety and Health Program compliant with the requirements of the Multiple Award Remediation Contracts (MARC), for the Louisville District and all U.S. Army Corps of Engineers Mission Boundaries. The Army reserves the right to stop work under this contract for any violations of the SSHP at no additional cost to the Army. Once the Army verifies through the COR that corrective action has been implemented, the Contractor shall be able to continue contract work. The Safety and Health Program prepared for the project must also tier under and meet any additional requirements contained in the Ravenna AAP Facility Wide Safety and Health Plan.

3.7 Quality Control Testing

Chemical Quality Control shall be provided whenever sampling or analysis for chemical constituents is required in order to meet the milestones. Chemical quality control shall be implemented in accordance with the requirements of the MARC for the Louisville District. The Contractor shall also comply with all requirements of the DoD Quality Systems Manual, Version 2.

3.8 Project Repository and Administrative Record

The Contractor shall update at least monthly a multimedia (*i.e.*, both paper and electronic format) project repository of all project-related information to ensure that pertinent documentation and data are available for project reviews, and to provide a clear record of the PBC approach to support final decisions and remediation completion. This repository

is the property of the Army and available upon request by the COR or KO. A project repository is currently maintained at the Ravenna Army Ammunition Plant.

"Project-related information" includes all previous environmental restoration documentation of a technical nature developed by the Army and previous Army contractors for the site specified in this PWS, and all the documentation developed by the Contractor in order to achieve the performance objectives specified in this PWS. Documents generated prior to the PBC are not expected to be stored in electronic format; however, all documents generated during the course of this contract are expected to be maintained in hard copy and electronic form

The Contractor shall also update the repositories for the Administrative Record for CERCLA activities established at Ravenna Army Ammunition Plant, as needed. The project repository and Administrative Record shall be updated by the Contractor, and made available to the public, for the duration of the contract.

3.9 Regulatory Involvement

All regulatory coordination shall be approved by the Army through the Facility Manager and COR. The Contractor shall provide the necessary support to initiate, schedule, and address all regulatory aspects of the project (e.g., organizing discussions with regulators concerning site response objectives and completion requirements, obtaining regulator comments on site documents and appropriately addressing them, and obtaining written documentation of remediation completion from the regulators for WBG). The COR, Facility Manager, or designee, will attend and represent the Army at all meetings with the regulators. With approval of the COR or Facility Manager, the contractor may also informally discuss remediation issues with regulators and provide an after-action report back to the Facility Manager and COR. The Army will be the signature authority for all regulatory agreements and remediation documentation.

3.10 Public Involvement

All public participation coordination shall be approved by the Army through the Facility Manager and COR. The Contractor shall provide the necessary support to initiate, schedule, and address all public participation aspects of the project (e.g., preparation of briefings, presentations, fact sheets, newsletters, articles/public notices to news media, and notifications to Restoration Advisory Board (RAB) members). The Contractor shall be responsible for requesting and addressing all public comments consistent with the applicable regulatory drivers listed in Section 1.0 of this PWS. The Facility Manager, or designee, will attend and represent the Army at all meetings with the public.

Prospective Contractors should note that the Facility has an active RAB and detailed information concerning the RAB's organization and activities will be provided to the selected Contractor. Activities required to support the RAB meetings are included in this effort. The Contractor shall attend and participate in RAB meetings only at the request of the Facility Manager. The Contractor shall provide support with RAB meeting minutes as the Facility Manager requests.

3.11 Project Stakeholders

For the purposes of this PWS, project stakeholders include the Army, Ohio Army National Guard (OHARNG), Ohio EPA, and the RAB. Table 2 outlines the general level of stakeholder involvement concerning the deliverables required by this PWS.

Table 2: Required Stakeholder Involvement.			
Project Deliverables			
Project Stakeholder	PMP Document	Milestone Presentations	Project Documents (CERCLA)
Army	A	A	A
OHARNG	A	A	A
Ohio EPA	A	A	A
RAB/Interested Public			C
A: Stakeholder must review and approve of deliverable and may provide comments that must be addressed. C: Stakeholder may provide comments and/or concurrence on deliverables.			

3.12 Deliverable Requirements

Deliverable requirements and review times are outlined in the DFFO. The Contractor, COR, and Facility Manager will determine the most appropriate method for document distribution to stakeholders. All documents must be produced with at least an internal Army draft, draft, and final versions. The Army, through the COR, will receive the internal Army draft documents in electronic form, and will provide comments to the Contractor within ten (10) business days. Once initial comments are addressed, a draft version will be produced and distributed to the listed stakeholders for concurrent review and comment.

The Contractor shall ensure that review periods are given consistent with the applicable regulatory drivers noted in Section 1.0 of this PWS. All documents shall be identified as draft until completion of stakeholder coordination, when they will be signed and finalized. One electronic copy of all draft and final documents shall be submitted for placement in each of the two public repositories (Ravenna and Newton Falls Public Libraries) and the Facility Administrative Record (for CERCLA documents).

4.0 Expertise and Necessary Personnel

The Contractor shall furnish all labor, materials and equipment necessary to meet the performance objectives. For all work performed under this contract, the Contractor shall also develop and implement quality control measures consistent with all applicable federal and state regulatory requirements and standards. Contractor personnel and qualifications, as well as implemented quality control measures, shall be consistent with the requirements of the MARC for the Louisville District.

5.0 Additional Requirements

5.1 Certification and Approval of Project Milestones and Deliverables

The COR will be responsible for contract management, inspection, oversight, review, and approval activities. Certification and approval of project milestones by the COR is necessary before distribution of partial payments. Final acceptance of milestone completion will include appropriate acceptance of site remediation documentation by regulators.

Certification by the Army is contingent upon the Contractor performing in accordance with the terms and conditions of the contract, this PWS, and all amendments/options.

Representatives of the Army and the Contractor shall meet with the COR at a site and time designated by the COR after receipt of each status report to:

- Formally review the quantity and quality of services;
- Inspect work for compliance with this PWS, the associated Contractor's final proposal, and project documentation;
- Accept or reject milestones and deliverables completed since the previous review; and
- Prepare, approve and submit SF 93 "Pay Estimate – Contract Performance" for partial payments in accordance with PWS milestone completions and approvals.

5.2 Army Furnished Resources

The Army, through the COR, shall make available the following resources to the Contractor:

- Records, reports, data, analyses, and information, in their current format (e.g., paper copy, electronic, tape, disks, CDs), to facilitate development of an accurate assessment of current, former, and historical site activities and operations; waste generation and contaminant characteristics; parameters of interest; and site environmental conditions.
- Access to personnel to conduct interviews on Facility operations and activities.
- Access to DoD and Army policy and guidance documents.
- All Army owned property used for remediation purposes at the facility must be maintained by the Contractor in accordance with applicable maintenance requirements, and may not be replaced by the Army should new equipment be required.

5.3 Contractor Furnished Resources

The Contractor shall be responsible for the following:

- Coordination with the Army/COR and the Facility for access to the Facility, to execute this PWS and comply with the procedures described during the Contractors' meeting at the Facility.
- Coordination with the Army/COR and the Facility in order to gain access to available infrastructure (e.g., buildings, roadways, waste management units, other Facility facilities) and utilities (e.g., electric power and telephone lines, natural gas and water supply distribution pipelines, and wastewater discharge conveyances), to execute this PWS.
- The provision and cost of the utilities associated with implementation of remedies, including Facility of individual meters for necessary utilities.
- All waste generated under this contract shall be the responsibility of the selected Contractor.
- Any other necessary resources needed to achieve the performance objectives.

5.4 Government Rights

The Army has unlimited rights to all documents/material produced under this contract. All documents and materials, to include the source codes of any software, produced under this contract shall be Army owned and are the property of the Army with all rights and privileges of ownership/copyright belonging exclusively to the Army. These documents and materials cannot be used or sold by the Contractor without written permission from the KO. All materials supplied to the Army shall be the sole property of the Army and cannot

be used for any other purpose. This right does not abrogate any other Army rights under the applicable Data Rights clause(s).

5.5 Place of Performance

Work shall be performed at the Facility and off-site Contractor offices as agreed to by both parties for proper performance of this task.

5.6 Privacy and Security

In order to ensure the security and orderly running of the Facility, any contractors' personnel who wish to gain access to the Facility shall follow procedures established by the Facility. Due to security restrictions, details of these and other security procedures will be provided at a later date to the selected Contractor. However, the Contractor should account for potential delays due to DoD security requirements in its pricing.

5.7 Staffing

The Contractor shall notify the COR of any changes in key personnel. The change of key personnel is subject to approval by the KO, although such approval will not be unreasonably withheld provided replacement personnel are of the same quality as originally proposed.

5.8 Stop Work Authority

The Contractor the Area Contracting Officer (AKO) and the KO have the authority and responsibility to stop work immediately if the work is considered to be a serious threat to the safety or health of workers, other personnel, or to the environment. When work is stopped due to a hazard/threat to worker safety, health, or the environment, the situation and resolution must be documented and submitted to the KO. Work must be stopped whenever chemical and biological warfare agents, radiological materials are discovered. In addition, the KO has the authority to temporarily stop work on a project following a 24-hour (one working day) written notification to the Contractor. Stop work notices can be related to nonconformance to project specifications, lack of performance by the Contractor, financial considerations, funding considerations, or other circumstances outlined in the contract. Stop work notices may also be related to security levels that could prevent access to the Facility during a time of heightened security concerns. As part of the Project Management Plan the Contractor shall develop a back up plan for the case when the AKO or the KO are is not immediately available and a serious threat to the safety or health of workers, other personnel or to the environment has been identified.

5.9 Environmental Responsibility Considerations

- The Army will retain responsibility for any assessed natural resource damages that are attributed to historic releases of hazardous substances (prior to contract with selected contractor) and any injuries that are necessary and incidental to the reasonable implementation of a selected response or remedial action. The Contractor shall be responsible for any/all additional natural resource injuries and associated Natural Resource Damages claims brought as a result of its actions (e.g. release of hazardous substance or unreasonable disturbance of natural resources as a result of construction activities).

- The Army will retain all responsibility for third party liability for CWM, MEC, or radiological material that are either targeted for or may be discovered during the course of remediation.
- Response cost claims, property damage and personal injury claims brought due to contamination and hazardous substance releases that have occurred historically (prior to contract with selected Contractor) and are not due to Contractor remediation activities are excluded from Contractor responsibility. The Contractor shall be responsible for and indemnify the Army for:
 - Any response cost claims for any environmental remediation services which the Contractor has assumed responsibility for under this PWS;
 - All costs associated with correction of a failure of any remedy implemented or operated and maintained by the Contractor to the extent such failure was caused by the willful or negligent acts or omissions of the Contractor in the course of performing the environmental services;
 - All personal injury or property damage claims to the extent caused by the acts or omissions of the Contractor in the course of performing the environmental services;
 - All natural resource damages pursuant to 42 U.S.C. Section 9607(a)(4)(C), to the extent that such damages were caused or contributed to by the actions of the Contractor or its successors in interest; and
 - All costs associated with or arising from any negligent acts or omissions or willful misconduct of the Contractor in the course of performing the environmental services or implementing remedial actions.

5.10 Electronic Data Deliverables (EDD)

The contractor shall secure a USACE approved laboratory that can provide analytical data in the USACE (ADR) electronic format. All samples collected and analyzed under this SOW shall be provided in the referenced electronic data deliverable (EDD) format. The contractor shall be provided with the Automatic Data Review (ADR) / Environmental Data Management System (EDMS) software by the USACE Project Engineer and must develop a project-specific library file for all of the methods to be analyzed under this SOW. (A master library associated with the current Louisville Chemistry Guidance will be provided to contractors as part of the software supplied by the USACE). The project-specific library file will accurately reflect all of the analytical quality requirements as documented in the RVAAP Facility-Wide QAPP and will be provided to both the USACE and the sub-contract laboratory for use in screening EDD submittals.

Data review must comply with the Louisville Chemistry Guidance (LCG) criteria and provide compatibility with data management software, at a minimum Environmental Data Management System (EDMS) software.

The contractor shall set up libraries in ADR/EDMS for deriving site constituents of potential concern (COPCs).

The contractor must have the ability to process updates required by the LCG, and further will be responsible for keeping ADR current with all LCG updates.

All electronic data submitted by the contract laboratory is required to be error-free, and in complete agreement with the hardcopy data. Data files are to be delivered both by e-mail or high density CD accompanying the hardcopy data reports. The disk must be submitted with a transmittal letter from the laboratory that certifies that the file is in agreement with

hardcopy data reports and has been found to be free of errors using the latest version of the ADR evaluation software provided to the laboratory. The contract laboratory, at its cost, will correct any errors identified by the USACE, Louisville District. The contractor is responsible for the successful electronic transmission of field and laboratory data under this SOW. The USACE Louisville District point of contact for information related to ADR/EDMS issues is Dr. David Brancato, (502)315-6494

Data deliverable requirements also include providing the Ravenna Environmental Information Management System (REIMS) administrator (SAIC, Oak Ridge, TN) with an electronic deliverable

for uploading to the RVAAP data management system. Timing of the delivery of the electronic data submittal will be made such that the information will be available in the REIMS at the same time as the draft document is under review.

6.0 Facility and Site Information

This section is intended to provide the Contractor with general site background information to assist in the Contractor's identification of the specific sites and corresponding documentation/existing reports. The Army believes the information presented below is accurate. However, if there is a conflict between this information and other site documentation (the existing reports), the Contractor is solely responsible for reviewing all available information and forming their independent, professional conclusions/interpretation of site conditions and requirements to meet the objectives of this PWS. The following information is not intended as a substitute for complete analysis of technical data available. Nor is it intended to be a guide on how the Contractor should address achievement of the performance objectives/standards.

6.1 Facility Setting and Status

RVAAP is a government-owned, contractor-operated facility located in northeastern Ohio within east-central Portage County and southwestern Trumbull County, about 1 mile northwest of the town of Newton Falls, and 3 miles east-northeast of the city of Ravenna. RVAAP was constructed in 1940 and 1941 for depot storage and ammunition assembly/loading and placed on standby status in 1950. Production activities were resumed during 1954 to 1957 and 1968 to 1972. Demilitarization activities, including disassembly of munitions and explosive melt out and recovery continued until 1992. The only activities still being carried out at RVAAP are environmental restoration, ordnance clearance and infrequent demolition of any unexploded ordnance discovered during investigation and remediation activities, and building decontamination and demolition.

RVAAP-05: Winklepeck Burning Grounds

Site Information

WBG, designated as AOC # RVAAP-05, encompasses approximately 200 acres in the central portion of RVAAP (Figure 2). Historical operations at WBG included destruction of explosives from various types of munitions by open burning. In some instances, black powder and explosives were laid out along roads and burned. Burning is also known to have occurred along Road D. Prior to 1980, materials destroyed by burning included bulk explosives and explosives-contaminated burnable wastes (e.g., paper and cloth), propellants, black powder, sludge, sawdust from load lines, and domestic wastes. Small amounts of laboratory chemicals were burned during production periods. Metallic munitions fragments were allowed to remain on-site after burning, as were possible residual explosives. Waste oil (hydraulic oil from machines and lubrication oil from

vehicles) was burned in the northeast corner of WBG until 1973.

Prior to 1980, burning was carried out in four earth-bermed burn pits, on gravel-covered or bare soil burn pads, and sometimes on the roads. Although the exact number of burning pads within the AOC is not conclusively known, 70 known or suspected burning pads have been identified from historical drawings and aerial photographs.

After 1980, open burning was conducted in metal, refractory-lined trays within a 1-acre Resource Conservation and Recovery Act (RCRA)-permitted area at Burning Pad #37. Ash residues were drummed and stored in Building 1601, also a RCRA-permitted facility, on the west side of WBG pending proper disposition. The burn trays were decontaminated and removed from Burning Pad #37 in 1998 and closed under RCRA. Building 1601, a storage building, was also closed under RCRA. A former deactivation furnace located at Burning Pad #45 was transferred to CERCLA under the Ohio EPA Director's Final Findings and Orders.

WBG was identified as an AOC at RVAAP in the Preliminary Assessment (USACE 1996). It was the subject of a Phase I RI (USACE 1998), a Phase II RI (USACE 2001), and a Phase III RI (USACE 2004a). An FFS was completed in 2005 (USACE 2005).

As part of the Ravenna Training and Logistics Site (RTLS), OHARNG is constructing a Mark 19 Grenade Machinegun Range, a target practice range, at WBG. Initial plans and design for range construction revealed that MEC was present in the areas needed for the project. To protect range maintenance workers, soils contaminated with MEC and chemical contaminants needed removal. The target cleanup goals for chemical contaminants were developed in the FFS. During MEC removal actions, soil containing chemical contamination was removed consistent with the preferred CERCLA alternative. MEC and some associated contaminated soils were removed under an approved U. S. Department of Defense Explosive Safety Board Explosive Safety Submittal and associated project work plans (MKM 2004a, 2004b, 2005a, 2005b). Final grading, seeding, mulching, and road repair were completed in August 2005. These actions were completed under an accelerated schedule to meet the military mission requirements.

At the conclusion of MEC removal actions, confirmation sampling indicated that additional soil contamination above cleanup goals remained on-site. The soil within the line of sight for one of the target lanes is contaminated with RDX (hexahydro-1,3,5-trinitro-1,3,4-triazine) and semivolatile organics above risk-based cleanup levels (those levels that are considered safe for range maintenance personnel).

The preferred remedy addresses the remaining soil at WBG that contains contamination above risk-based cleanup goals based on the intended use as a Mark 19 Grenade Machinegun Range. The preferred remedy is consistent with past MEC and soil removal, and focuses on additional soil removal to protect range construction workers and future range maintenance personnel. The remedial action objective (RAO) is to prevent exposure to soils contaminated above cleanup goals. The U. S. Army intends to transfer the remaining portion of the WBG to OHARNG following the removal of contaminated soils from the target array construction area and removal of munitions and explosives of concern (MEC) if found during the soil removal project.

6.3 Summary of Remedial Action Requirements

The following information summarizes the Army's understanding of additional cleanup of contaminated soils at WBG that needs to occur. Because of the possibility that MEC is

contained within the areas to be excavated, all excavation activities will be performed in accordance with the approved Explosive Safety Submission (ESS) and the Final Workplan for the Phase II MEC Clearance and Munitions Response, dated March 2005, which requires sifting all excavated soils to remove MEC. All recovered MEC will be handled according to the procedures detailed in the approved ESS and subject workplan. Pertinent drawings from the Mk-19 range design are included in Attachment A.

6.3.1 Pad 67

Concurrent MEC removal and environmental remediation was performed at Pad 67 because residual RDX exceeded the cleanup goal. Two adjacent locations at Pad 67 (approximately 15x15 feet) were excavated down to one foot to achieve levels below the corresponding RDX cleanup goal of 617 mg/kg. Multi-incremental (MI) closure sampling indicated that the bottom of the excavation was below the required cleanup goal; however, RDX contamination in excess of 617 mg/kg is present on the sides of the excavation. These results are provided as Table 3.

Table 3 WBG Pad 67 Excavation Confirmation Samples

Sample No.	WBGcs-70M-FLR-SO	WBGcs-70M-SDW-SO	WBGcs-70M-STP-SO	WBGcs-070M-STP-DUP	WBGcs-071-105M-FLR-SO	WBGcs-071-105M-FLR-QA
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RDX	0.17J	0.28	2.4	8.0	150	270

Sample No.	WBGcs-071-105M-SDW-SO	WBGcs-071-105M-STP-SO	WBGcs-243M-FLR-SO	WBGcs-243M-SDW-SO	WBGcs-243M-STP-SO
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RDX	1200	2600	BDL	7.2	0.33

WBG RDX Cleanup Goal = 617 mg/kg
 All samples collected on 21 April 2005
 BDL - Below Detection Limit
 Explosives Method 8330
 Mg/kg – milligrams per kilogram
 J - Result is <the reporting limit but >or=the method detection limit
 FLR - Floor Sample
 SDW - Sidewall Sample
 STP - Stockpile Sample

For the Pad 67 area it was envisioned that the Contractor would excavate outward from the existing sides of the excavation, to a depth of 12-inches, to remove material along the sides of the existing 15x15- ft excavation. The excavated material will be added to the stockpile of previously excavated material at Pad 67. To determine the need for additional soil removal beyond the widened excavation, the Contractor will perform additional characterization of the adjacent areas. Any additional excavation would be based upon the results of that characterization.

Should any of those areas have average RDX concentrations greater than the cleanup goal of 617 mg/kg they will be excavated to a depth of one (1) foot, with closure sampling of the floor of that excavation for any areas 0 – 5 feet, and 5 – 10 feet beyond the existing excavation. Additionally, an MI sample of the excavated soil will be taken to determine

disposition. These MI closure samples will be analyzed conventionally in the laboratory for RDX under Method 8330.

The completed excavation will be backfilled with approved clean soil from an offsite source, regraded and seeded with an approved grass mixture. All seeding methods and mixtures will require the final approval of the OHARNG Natural Resources Manager, Mr. Tim Morgan. Once any additional excavations are completed, appropriate sedimentation and erosion controls, such as covers for stockpiles, hay bales, ditching, etc. will be implemented. Approximately 500 ft³ or 18.5 yd³ of special waste has been estimated as requiring removal for this area. Mk-19 design drawings C-6 and C-19 depict plan and profile sections, respectively for the Pad 67 Area and are included in Attachment A.

6.3.2 Pad 61/61A

Environmental contamination (primarily miscellaneous debris with lesser amounts of asphalt roofing shingles and transite) and MEC were found at and near Pad 61 during MEC removal activities for the proposed Mark 19 Range at the WBG. A MEC removal was conducted in areas where targets for the range are to be constructed. The 400-meter target array crosses Pad 61. Additionally, Pad 61 lies along lane 1 of the proposed firing range. To provide adequate line of sight to downrange targets, the Mark 19 design calls for excavation along firing lane 1 at Pad 61 and the bermed areas adjacent to it. Additionally, a portion of Pad 61 requires removal of previously documented surface soil contaminated with semi-volatile organics (SVOCs).

Upon discovery of the debris at Pad 61, a series of test pits were excavated within the berms to estimate the nature and extent of this material. Generally, the debris has an in-place cover of 12 – 18 inches of clay, although some areas have little or no cover. It is not known whether this cover material is contaminated. A clear delineation of debris and clay was observed, with little or no apparent intrusion of contamination into the underlying clay soils. Environmental testing of the soils surrounding the debris indicates elevated levels of SVOCs in those materials. Results of the two sets of analyses of these materials are provided as Table 4. Vertical extents of the test pits were compared with the surface topography, and the contamination appears to be confined to a continuous berm located on the west, south, and east sides of Pad 61.

Table 4 WBG Pad 61/61A Sample Results

Analyte	WBG Cleanup Goal	WBG-PD61- Cont1M-SO	WBG-PD61- Cont2M-SO
Units	mg/kg	mg/kg	mg/kg
RDX	617	2	0.57J
Benzo(a)anthracene	75	100	260
Benzo(a)pyrene	8	86	230
Benzo(b)fluoranthene	75	100H	270
Dibenzo(a,h)anthracene	8	15H	46H
Ideno(1,2,3-cd)pyrene	75	42H	120

All samples collected on 26 April 2005

Explosives Method 8330

SVOC Method 8270C

mg/kg – milligrams per kilogram

J - Result is <the reporting limit but >or=the method detection limit

H – Batch QC is greater than the reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit

For the bermed area around Pad 61 area it was envisioned that the Contractor would excavate/ Scrape "clean" soil off the top of the berm for sifting and characterization and subsequent offsite disposal, assuming approximately 400 in place CY (500 CY excavated) would require removal. Additionally, at the completion of the berm excavation, if any transite or friable asbestos is visible on the remaining surface, the excavation will be deepened to a depth no greater than required to allow the placement of 2-ft of approved clean cover material (material without visible asbestos or other contaminants). At the completion of the additional excavation and prior to placement of 2-ft of approved clean cover material, any transite and/or friable asbestos that is loose and readily removable by hand will be removed from the excavation and disposed of appropriately.

For the Pad 61A area it was envisioned that approximately 4090 CY of material would be excavated, sifted and transported for offsite disposal as special waste. At a minimum, all waste materials in the Pad 61A area would be removed such that the line of sight for Lane One of the MK 19 range matched the design requirements as indicated on the drawings included in Attachment A. MI confirmation sampling of the bottom of the excavation for comparison to WBG Cleanup Goals would be performed. MI samples would also be obtained from those areas adjacent to the cut area. If the results of the MI samples show levels above Cleanup Goals then the execution of volume options will proceed as needed. If the results of the MI samples show levels below the Cleanup Goals then no additional excavation will be warranted. Additionally, at the completion of excavation of debris within the Mark 19 line of sight cross sections, if any transite or friable asbestos is visible on the remaining surface, the excavation will be deepened to a depth no greater than required to allow the placement of 2-ft of clean cover material (material without visible asbestos or other contaminants). At the completion of the additional excavation and prior to placement of 2-ft of clean cover material, any transite and/or friable asbestos that is loose and readily removable by hand will be removed from the excavation and disposed of appropriately. Mk-19 design drawings C-4 and C-12C depict plan and profile sections, respectively for the pad 61/61A area and are included in Attachment A.

Because the work described above is an extension of that previously contracted work and for which pertinent work plans and ESSs have been approved, the contractor will provide only a Technical Memorandum that references the previously existing/approved documents and provides the necessary details for this work explaining what and how this work will be done. The Technical Memorandum will be as concise as possible.

A Construction Completion Report (CCR) must be completed for this work as a stand-alone document. It cannot be included as part of the reports required for the other MEC removal activities. All applicable provisions of the RVAAP Findings and Orders, dated 10 June 2004, must be followed for this project.

7.0 Project Deliverables

Prospective Contractors should note:

- This project deliverables list is subject to change based on an alternative deliverables list proposed by the Contractor and approved by the Army through the COR.
- As noted in Section 3.12, all documents must be produced with at least an internal Army draft, draft, and final versions. This requirement is subject to change based on Contractor negotiations with the Army and regulators and approved by the COR/KO.

<i>Table 5. Proposed Project Deliverables</i>		
Deliverable Number	Deliverable Name	PWS Sections
1	Project Management Plan	3.1, 3.4, 3.12
2	Project Management Plan Revisions	3.1, 3.4, 3.12
3	Additional Site Plans	3.2, 3.4, 3.12
4	Status Reports	3.1, 3.4, 3.12
5	Milestone Presentations	3.4, 3.10, 3.12
6	RVAAP-05 Documents (CERCLA)	3.4, 3.8, 3.12

ATTACHMENT A: REFERENCE DOCUMENTS

Prospective Contractors should note:

- These documents are also available from the internet until 30 July 2006 at [ftp://ftp.usace.army.mil/pub/Irl/RVAAP WBG RDRA Solicitation](ftp://ftp.usace.army.mil/pub/Irl/RVAAP%20WBG%20RDRA%20Solicitation). Contact CELRL immediately if there is any difficulty in accessing the information.
- The Army believes this documentation represents the most recent and appropriate documentation available for the Facility and the site identified in this PWS.
- Additional documentation is available through the Administrative Record. Specific documents may be made available following a request, if the documentation can be distributed in a timely manner. Electronic format is not guaranteed.

<i>Table 4. Available Reference Documents</i>		
Title	Author	Date
Phase I Remedial Investigation Report for the Phase I Remedial investigation of High Priority Areas of Concern at the Ravenna Army Ammunition Plant	SAIC	February 1998
Facility Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant	SAIC	March 2001
Facility Wide Safety and Health Plan for Environmental Investigations at the Ravenna Army Ammunition Plant	SAIC	March 2001
Phase II Remedial Investigation Report for the Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant	SAIC	April 2001
Final RVAAP Facility Wide Ecological Risk Work Plan	USACE	April 2003
Draft Multi Incremental Sampling Guidance	USACE	February 2004
Director's Final Findings and Orders	Ohio EPA/Army	June 2004
Explosives Safety Submission for the MEC Survey and Munitions Response of Winklepeck Burning Grounds	MKM	August 2004
Final Facility-Wide Groundwater Monitoring Program Plan for the Ravenna Army Ammunition Plant	Portage Environmental	September 2004
Contract Drawings for Mark 19 Range Winklepeck Burning Grounds, Ravenna Training and Logistics Site (RTLS), drawings Cover sheet, C-1, C-2, C-4, C-12C, C-6 and C-19	USACE	February 2005
Phase III Remedial Investigation Report for the Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant	SAIC	March 2005
Focused Feasibility Study for the Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant	SAIC	March 2005
Phase I MEC Density Survey After Action Report at Winklepeck Burning Grounds	MKM	March 2005
Final Work Plan for Phase II MEC Clearance and Munitions Response at Winklepeck Burning Grounds	MKM	March 2005
RVAAP's Facility Wide Human Health Risk Assessor Manual	USACE	December 2005
Final Proposed Plan for the Winklepeck Burning Grounds	SAIC	December 2005
Final Report for the Phase II MEC Clearance and Munitions	MKM	December

<i>Table 4. Available Reference Documents</i>		
Title	Author	Date
Response at Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant		2005
Preliminary Draft Record of Decision for the Winklepeck Burning Grounds At the Ravenna Army Ammunition Plant	SAIC	March 2006

ATTACHMENT B: LIST OF ACRONYMS

AEDB-R	Army Environmental Database - Restoration Module
AKO	Area Contracting Officer
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLIN	Contract Line Item
COR	Contracting Officer's Representative
CWM	Chemical Warfare Materiel
DACA	Days After CLIN Award
DERP	Defense Environmental Restoration Program
DFFO	Directors Final Findings and Orders
DMM	Discarded Military Munitions
DoD	Department of Defense
ESS	Explosive Safety Submission
FFPR	Firm-Fixed Price Remediation
IAP	Installation Action Plan
KO	Contracting Officer
LTM	Long-Term Management
MEC	Munitions and Explosives of Concern
NCP	National Oil and Hazardous Substances Contingency Plan
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
PBC	Performance-Based Contract/Contracting
PMP	Property Management Plan
PWS	Performance Work Statement
QA	Quality Assurance
QASP	Quality Assurance Surveillance Plan
RAB	Restoration Advisory Board
RA(O)	Remedial Action (Operations)
RCRA	Resource Conservation and Recovery Act
RDX	Royal Demolition Explosive
RFQ	Request for Quotation
REIMS	Ravenna Environmental Information Management System
RI	Remedial Investigation
RIP	Remedy In Place
RTLS	Ravenna Training And Logistics Site
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SSHP	Site Safety and Health Plan
TNT	Trinitrotoluene
USAEC	United States Army Environmental Center
UXO	Unexploded Ordnance

ATTACHMENT C: DEFINITIONS

Chemical Warfare Materiel (CWM): An item configured as a munitions containing a chemical substance that is intended to kill, seriously injure, or incapacitate a person through its physiological effects. CWM also includes V- and G- services nerve agent, H-series blister agent, and lewisite in other than munitions configurations. Due to their hazards, prevalence, and military-unique application, Chemical Agent Identification Sets (CAIS) are also considered CWM. CWM does not include: riot control agency, chemical herbicides, smoke and flame producing items, or soil, water, debris, or other media contaminated with chemical agent.

Deliverables: Documentation or data that support the completion of milestones or achievement of the performance objectives identified in this PWS.

Duration of the contract: The total period of performance to include option periods, if exercised.

Long-Term Management (LTM): The remedial phase including maintenance, monitoring, record keeping, remedy reviews, etc. initiated after response (removal or remedial) objectives have been met (i.e., after Response Complete).

PWS Milestones: Significant events or activities that occur in the course of the Contractor achieving the performance objectives identified in this PWS.

Munitions and Explosives of Concern (MEC): This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks, means Unexploded Ordnance (UXO), as defined in 10 U.S.C. 2710 (e) (9); Discarded Military Munitions (DMM), as defined in 10 U.S.C. 2710 (e) (2); or Explosive munitions constituents (e.g., Trinitrotoluene (TNT), Royal Demolition explosive (RDX)) present in high enough concentrations to pose an explosive hazard.

Project Documents (CERCLA): Documentation and data required by CERCLA remediation and RA(O)/LTM activities. These documents include the additional site plans referenced in Section 3.2.

Project-related information: All previous environmental restoration documentation of a technical nature developed by the Army and previous Army contractors and subcontractors during their work at the sites specified in this PWS, and all the documentation developed by the Contractor in order to achieve the performance objectives specified in this PWS.

Remedial Action (Operations) (RA(O)): The remedial phase during which the remedy is in place and operating to achieve the cleanup objective identified in the Record of Decision (ROD) or other formal decision document. Any system operation (long-term operations) or monitoring (long-term monitoring) requirements during this time are considered RA(O).

Remedy In Place (RIP): A final remedial action has been constructed and implemented and is operating as planned in the remedial design. An example of a remedy in place is a pump-and-treat system that is installed, is operating as designed, and will continue to operate until cleanup levels have been attained. Because operation of the remedy is ongoing, the site cannot be considered Response Complete.

Resource-loaded Schedule: A schedule of due dates and cost expenditure percentages for all milestones and payable deliverables

ATTACHMENT D: EVALUATION CRITERIA

This contract will be awarded on the basis of a Best Value Evaluation. The Army intends to make the award selection without discussions. The proposal must be complete and contain the Contractor's most favorable terms.

Evaluation for Award - To receive consideration for award, the Contractor's proposal must meet the requirements in the Request for Proposal letter and MARC and must be presented with adequate detail to assure the evaluator of an understanding of the proposed requirement(s). All proposals will be evaluated to determine the extent to which each Contractor demonstrates a clear understanding of the requirements of the Request for Proposal Letter. The contractor shall submit a proposal that completely addresses all evaluation areas and specifically identifying how each requirement will be satisfied. Each proposal will be evaluated strictly in accordance with its content and will not assume that performance will include areas not specified.

Basis for Award – This award will be made using the Best Value process. This process permits tradeoffs among cost or price and non-cost factors and allows the Government to accept other than lowest priced proposal in accordance with FAR 15.101-1.

Selection of the Contractor to perform the work described herein will be based on the following three factors:

- | | |
|----------|---------------------|
| Factor 1 | Technical Approach |
| Factor 2 | Previous Experience |
| Factor 3 | Price |

The combination of (Previous Experience and Technical Approach) will be weighted more than Price. In the event that two offers are equally qualified under Factor 1 and 2 and than price will be a considering factor.

Factor 1 Technical Approach

The overall approach to accomplishing the PWS objectives, with completion of project closeout by **30 September 2007**. The following subjects, at a minimum should be fully addressed and discussed in detail in the Technical Approach proposal. This portion of the proposal shall not exceed ten pages. The Contractor shall provide 6 copies of the separate Technical Approach/Previous Experience document with their submittal. Factors are listed in order of their importance.

Factor 1A - Overall proposed project schedule

Factor 1B - Planned basic method(s) to accomplish the PWS objectives.

Factor 1C - Listing of key personnel with their qualifications that will be assigned to this project, including those of key subcontractors, including specialized training, licenses, environmental experience at ammunition plants.

Factor 2 Previous Experience

The Contractor shall include as part of their proposal information which demonstrates their capabilities in executing projects similar in scope to the one described herein. Factors are listed in order of their importance. The following subjects should be fully addressed:

Factor 2A – Provide a sample Remedial Design document for a completed or underway project that has been prepared in accordance with federal and state CERCLA guidance. There is no size limitation for this document.

Factor 2B - Demonstrate team experience in interacting with the Environmental Protection Agency on projects regulated under CERCLA (experience in working with the Ohio EPA will be considered favorably). This portion of the proposal shall not exceed three pages in length.

Factor 2C – Provide documentation which lists successful completion of fixed price projects similar to the one described herein, with as a minimum, the name and location of the project, the cost of the project, and the name(s) and telephone number(s) of points of contact. This portion of the proposal shall not exceed five pages in length.

Factor 3 Price

The Contractor shall provide sufficient detailed data to support a cost analysis of their price proposal. The proposed bid schedule will be evaluated to determine if they are consistent with the PWS. The Price Proposal shall be a stand alone document, separate from the Technical Approach and Previous Experience Proposal. It is the intent of the Army to award without discussion. However, the Army reserves the right to open discussions if needed. The Contractor shall provide 3 copies with their submittal.

Bid Schedule
Winklepeck Burning Grounds RD/RA
Ravenna Army Ammunition Plant, Ravenna, Ohio

Line #	Description	Proposed Price
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Base contract includes line items 1, 2, and 3.

0001.	Overall project management and the preparation of a Project Management Plan	\$ _____
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0002.	RD completion	\$ _____
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0003.	RA for the removal and disposal of up to 4,500 Cubic yards of contaminated soil/solid waste (6682 tons)	\$ _____
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TOTAL Base Contract (line items 1, 2 and 3)		\$ _____
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Option

Unit price for additional project management, design, removal and disposal of contaminated soil/solid waste

_____	<u>2970 tons</u>	\$ _____
Unit price	estimated qty.	Total price Option

TOTAL with all Unit Prices OPTIONS		\$ _____
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The price evaluation will be performed on the total proposed price which includes base prices and all option. Evaluation of option shall not obligate the Government to exercise such option. The price will be evaluated using Price analysis Techniques. The Offeror shall submit all cost and price supporting documentation to support the Governments Tradeoffs analysis. Any of the various cost analysis techniques as allowed by Corps of Engineers Regulations may be used to determine cost risk and cost realism. Definitions of the following terms are included for reference: **Cost Risk Analysis** – The process of identifying and measuring the cost impact of project uncertainties on the estimated total project cost. **Reasonable Cost:** From the FAR Cost Principles Guide (April 2002) "A cost is reasonable if, in its nature and amount, if does not exceed that which would be incurred by a prudent person in the conduct of competitive business.

BASIS FOR AWARD: An award shall be made on the basis of a Best Value determination.

MOD 01

SCOPE OF WORK
Modification For
Contract W912QR-04-D-0040, DO 0003
Access Road Construction at the
Winklepeck Burning Grounds
Ravenna, Ohio:
REVISED 1 September 2006, Rev #3

1.0 SCOPE:

This Scope of Work (SOW) describes the deliverables for construction of an access road to the Winklepeck Burning Grounds to facilitate the removal of contaminated soils.

1.1 The objectives of this scope of work include:

Install an access road from Greenleaf Road to the existing soil pile at the west end of the Winklepeck Burning Grounds. The road will be capable of withstanding the movement of 500 fully loaded semi-trucks without significant surface damage. The road is to have a driving surface 12-feet wide and capable of being expanded to 22-feet in the future. The road will be approximately 1400-feet long and installed as described below:

The roadway will be installed along a pathway of previously cleared land extending from Greenleaf Road to the existing perimeter Pallet Road E within Winklepeck Burning Grounds, aligned with Pallet Road C, along Pallet Road C to the junction of Pallet Road E, and then across the processing pad to the soil pile.

Remove all topsoil and debris to a minimum of depth of 12-inches from the cleared path, Pallet Road C and the approach to the soil pile to expose load-bearing subsoil. Removed soil to be stockpiled at a designated location within the Winklepeck Burning Grounds.

A drainage ditch is to be installed along one side of the new road and also on the opposite side at a sufficient distance to accommodate the future road expansion.

Construction Specification:

1. Woven Geotech (or equal) fabric cover placed on the entire roadbed surface.
2. Six (6)-inches of ODOT #1 & #2 crushed stone aggregate, compacted with a vibratory roller.
3. Six (6)-inches of ODOT #1 & #2 crushed stone aggregate, compacted with a vibratory roller.
4. Six (6)-inches of ODOT #304 crushed stone aggregate compacted with a vibratory roller.
5. Install a plastic or concrete culvert of sufficient size and strength to handle anticipated water flow and loading at the junction of Greenleaf Road of sufficient length to allow a sufficient turning radius for a fully loaded conventional tractor-trailer.
6. Install a plastic or concrete culvert of sufficient size and strength to handle anticipated water flow and loading at the junction of Pallet Road C and the new road.
8. Install a plastic or concrete culvert of sufficient size and strength to handle anticipated water flow and loading at the low area located along the road profile approximately 100-feet from the junction of Pallet Road C and the new road.
9. Reseed & mulch the ditches and other disturbed areas with an approved RTLS seed mixture.

2.0 REQUIREMENTS:

Changes or modifications to this Scope of Work must have the approval of the Contracting Officer (CO).

2.1 The contractor's effort will begin within one (1) day after the award of the delivery order modification.

2.2 Construction of the road must be completed by 01 October 2006.

3.0 SAFETY AND ENVIRONMENTAL:

- 3.1 The contractor is responsible for complying with all federal, state, and local safety and environmental regulations, to include Occupational Safety and Health Act (OSHA, Title 29 CFR Parts 1926 and 1910), Environmental Protection Agency

(EPA) both federal and Ohio, Ohio Department of Health (ODH), Ohio Department of Transportation (ODOT) and Army Regulations. Specifically, unexploded ordnance support (UXO) shall be provided during any intrusive activity at the Winklepeck Burning Grounds associated with construction of the road.

- 3.2 All hazardous and non-hazardous wastes and contaminated material generated by the execution of this project will be disposed of in accordance with all applicable federal, state, and local laws and regulations. All transport and decontamination will be performed in accordance with all applicable interstate, federal, state, and local laws and regulations.

4.0 PROJECT DELIVERABLES

- 4.1 Weekly progress reports including photographic and written descriptions of work completed.

5.0 INSPECTION / FINAL ACCEPTANCE:

- 5.1 The LRL COR will monitor contractor performance on this SOW.
- 5.2 The final acceptance of this project will be upon of written approval from the Contracting Officer to the contractor.

6.0 Payment Schedule:

- 6.1 Payments will be made as materials and services are provided.

1 June 2007

Modification #2
to
Contract W912QR-04-D-0040, DO 0003
MKM Engineers, Inc
At the Ravenna Army Ammunition Plant (RVAAP)
Ravenna, Ohio:

1.0 SCOPE:

This Performance Work Statement (PWS) addresses three separate items that have developed subsequent to award of the basic delivery order, including:

- 1.1 Period of performance extension,
- 1.2 Requirements for addressing presence of asbestos in soil, and
- 1.3 Addition of Pad 70 to the work to be accomplished.

1.1 Period of Performance Extension

Due to factors beyond the control of the contractor, the date at which "Remedy In Place (RIP)" must be achieved is extended, at no cost to the government, from 30 September 2007 to 30 September 2008. As specified in the basic performance work statement (PWS) for this delivery order, RIP is attained upon the finalization of appropriate written documentation certifying that site remediation has met identified response objectives.

1.2 Change in Measures to Address Asbestos

The following measures were prescribed in Paragraph 6.3.2 in the basic PWS for this delivery order.

--- Additionally, at the completion of the (berm excavation – for Pad 61) or (completion of excavation of debris within the Mark 19 line of sight cross sections – Pad 61A), if any transite or friable asbestos is visible on the remaining surface, the excavation will be deepened to a depth no greater than required to allow the placement of 2-ft of approved clean cover material (material without visible asbestos or other contaminants). At the completion of the additional excavation and prior to placement of 2-ft of approved clean cover material, any transite and/or friable asbestos that is loose and readily removable by hand will be removed from the excavation and disposed of appropriately.

The above measures will be superseded by the requirements described below.

--- Additionally, at the completion of the (berm excavation – for Pad 61) or (completion of excavation of debris within the Mark 19 line of sight cross sections – Pad 61A), if any transite or friable asbestos is visible on the remaining surface, the

1 June 2007

excavation will be deepened in 3" – 6" lifts until there is no visible transite or friable asbestos on the excavated surface. To confirm lack of asbestos, a multi-increment sample consisting of at least 30 1 to 2-ounce random soil samples shall be collected to characterize the surface of the excavation. The sample locations shall be taken in a stratified random manner that provides lateral coverage over the entire excavated surface, and the 1 to 2-ounce random soil samples shall be no deeper than 3-inches. The samples will be collected using either a stainless steel step probe or stainless steel trowel or spoon and consolidated in a polyethylene-lined bucket. Field sample processing of MI samples collected for asbestos laboratory testing shall consist only of taking at least 30 small and approximately equal portions out of the MI collected field sample to fill samples jars which are to be forwarded to an off-site laboratory for asbestos analysis using Polarized Light Microscopy (PLM). The laboratory performing the PLM analysis shall be accredited by the National Voluntary Laboratory Accreditation Program of the National Institute of Standards and Technology. Excavation shall proceed until the results of the PLM testing are non-detect. If the PLM testing indicates presence of asbestos, deepen the excavation in 3" – 6" lifts until no visible transite or friable asbestos is present and resample and analyze for asbestos as described above.

If the PLM testing indicates non-detect for asbestos, backfill as necessary to the grade required for future placement of targets associated with the Mark 19 Range. Suitable backfill material will be determined by sampling and analyzing the proposed borrow source material for the RVAAP full suite of constituents; and approval of the materials for use by the Ohio EPA and the USACE – Louisville. Any disturbed or refilled areas need to be reseeded with the RTLS approved seed mix.

1.3 Addition of Pad 70

Subsequent to the award of the basic delivery order, it was recognized that transite or friable asbestos is present at Pad 70 that needs to be removed according to the Record of Decision for Winklepeck Burning Grounds. The current surface elevation of Pad 70 is approximately 999 ft. The contractor is to remove all existing transite and friable asbestos from the surface and subsurface within the footprint of Pad 70. Once the surface transite and friable asbestos on the surface are removed, the contractor will deepen the excavation until there is no visible transite or friable asbestos present. This removal will be accomplished utilizing the same procedures performed at Pads 61 and 61A, including sifting for UXO, segregation of materials from separate pads, etc.

Once there is no visible transite or friable asbestos present, the contractor will take a multi-increment sample consisting of at least 30 1 to 2-ounce random soil samples to characterize the surface of the excavation to determine if residual contaminant concentrations are less than the Winklepeck Burning Ground (WBG) clean-up levels delineated on Table 4 of the basic PWS and if there is no residual asbestos. The random sample locations shall be taken in a stratified random manner that provides lateral coverage

1 June 2007

over the entire excavated surface and the 1 to 2-ounce random soil samples shall be no deeper than 3-inches. The samples will be collected using either a stainless steel step probe or stainless steel trowel or spoon and consolidated in a polyethylene-lined bucket. Field sample processing of MI samples collected for asbestos laboratory testing shall consist only of taking at least 30 small and approximately equal portions out of the MI collected field sample to fill samples jars which are to be forwarded to an off-site laboratory for asbestos analysis using Polarized Light Microscopy (PLM). Air dry, sieve, and grind the remainder of the MI field sample for the RDX and SVOC analyses adhering to proper health and safety measures and assuming that there is residual asbestos present in the sample. The laboratory performing the PLM analysis shall be accredited by the National Voluntary Laboratory Accreditation Program of the National Institute of Standards and Technology. Excavation shall proceed until the results of the PLM testing are non-detect.

If the PLM testing indicates presence of asbestos, or if the concentrations of the constituents listed in Table 4 of the basic PWS exceed the respective clean-up goals, deepen the excavation in 3" – 6" lifts until no visible transite or friable asbestos is present and resample and analyze as described above.

If the PLM testing indicates non-detect for asbestos and the residual concentrations of the contaminants listed in Table 4 of the basic PWS are less than the respective clean-up goals, backfill with approved fill material to the approximate original grade, elevation 999. Suitable backfill material will be determined by sampling and analyzing the proposed borrow source material for the RVAAP full suite of constituents; and approval of the materials for use by the Ohio EPA and the USACE – Louisville. Any disturbed or refilled areas need to be reseeded with the RTLS approved seed mix.

2.0 REQUIREMENTS:

Changes or modifications to this Scope of Work must have the approval of the Contracting Officer (CO).

3.0 SAFETY AND ENVIRONMENTAL:

3.1 The contractor is responsible for complying with all federal, state, and local safety and environmental rules, laws, and regulations, to include Occupational Safety and Health Act (OSHA, Title 29 CFR Parts 1926 and 1910), Environmental Protection Agency (EPA) both federal and Ohio, Ohio Department of Health (ODH), Ohio Department of Transportation (ODOT) and Army Regulations.

3.2 All hazardous and non-hazardous wastes and contaminated material generated by the execution of this project will be disposed of in accordance with all applicable federal, state, and local rules, laws and regulations. All transport and decontamination will be performed in

1 June 2007

accordance with all applicable interstate, federal, state, and local rules, laws and regulations.

3.3 Care will need to be observed in the vicinity of Pad 70 to not disturb or otherwise adversely impact the wetland immediately adjacent to Pad 70, Wetland 5 on the attached map.

4.0 PROJECT DELIVERABLES

4.1 The work conducted under this modification will be added to the existing contract deliverables, including (draft and final workplans), (preliminary-draft, draft, and final close-out reports), (participation in bi-weekly schedule calls and weekly contractor meetings), and (monthly progress reports including photographic and written descriptions of work completed).

5.0 INSPECTION / FINAL ACCEPTANCE:

5.1 The LRL COR will monitor contractor performance on this SOW.

5.2 The final acceptance of this project will be upon of written approval from the Contracting Officer to the contractor.

6.0 Payment Schedule:

6.1 Payments will be made as materials and services are provided. Payment for quantities in addition to those specified in the basic delivery order (6682 tons) and the Option (2970 tons) will be at the unit price of the delivery order option, \$98 per ton.

6.2 For purposes of accountability, an estimate of 1200 tons is to be used to fund this modification. The contractor will be compensated at the unit price up to this volume.

6.3 If the amount of excavation exceeds 1000 tons, an additional modification will be required prior to the conduct of any additional excavation.

ATTACHMENT
Mark 19 Wetland Map

SCOPE OF WORK (SOW)
FOR THE MUNITIONS AND EXPLOSIVES OF CONCERN (MEC) DISPOSAL AND
MUNITION DEBRIS (MD) FINAL DISPOSITION SUPPORTING THE SURVEY
AND MUNITIONS RESPONSE (MR) AT THE WINKLEPECK BURNING GROUND
(WBG) PAD NOS. 61, 61A, 67, & 70
RAVENNA ARMY AMMUNITION PLANT (RVAAP)
RAVENNA, OHIO
19 May 2008

1. General Requirements:

- 1.1. The purpose of this SOW is to describe deliverables for disposal and final disposition actions for the subject Munitions Response (MR) at Winklepeck Burning Grounds (WBG). The MR will augment final action by the Army to mitigate explosives hazards under this SOW at the Munitions Response Areas (MRAs) known as Pads #61, #61A, #67, & #70 within WBG
- 1.2. The intent of this project augmentation is to execute Army and Department of Defense (DoD) required MR final disposition action(s) following the excavation and soil sifting operations of collected munitions items and munitions debris from the four WBG MRAs.
- 1.3. Necessary density survey and clearance of Munitions and Explosives of Concern (MEC) Map analysis of WPG was previously formulated under a separate action and is duly applicable for this SOW.
- 1.4. The contractor will be responsible for coordinating and obtaining concurrence from the Ohio Army Reserve National Guard's Ravenna Training and Logistic Site Range Office, the BRAC Environmental Coordinator at the Ravenna Army Ammunition Plant, and the U.S. Army Corps of Engineers. Efforts within the coordinating and concurrence with the two mentioned offices shall provide necessary and critical information where applicable for:
 - a. the safe collection/containerization, transport, storage, discharge and disablement of munitions composition and components,
 - b. pre- and post detonation (where applicable) maintenance,
 - c. final disposition status of all resultant munitions debris and,
 - d. all chain-of-custody and final reports of MEC/MD disposition status
- 1.5. All work will comply with the RVAAP Plant Protection Plan and those procedures stipulated within the U.S. Army and DoD approved Ravenna Army Ammunition Plant Explosive Safety Submission for the Munitions and Explosives of Concern Survey and Munitions Response at Winklepeck Burning Grounds Revision 3 Amendment 2 – April 2008.

- 1.6 All contracted personnel executing the proposed MEC demolition, inspection, confirmation of inert components, and MD chain-of-custody final disposition shall be Unexploded Ordnance (UXO) certified technicians inclusive with at least one Senior UXO Supervisor (SUXOS) and UXO Safety Officer UXOSO.
- 1.7 Ultimate objective for disposition status will effectively remove all MEC as certified free of explosive hazards resulting in all affected components/parts as MD allowed forwarding to a smelter-to-ingot process destroying all recognizable attributes as military munitions subsequent with Army and DoD required chain-of-custody reporting.
- 1.8 The proposal will specify the principle costs beginning from removal of the collected MRAs' (WBG Pads 61, 61A, 67, & 70) MEC from RVAAP Open Demolition Area (ODA) #2 – Explosive Storage Magazine 1501; demolition (within designated ODA#2 site) rendering such MEC as certified free of energetic materials; post-demo surveillance/policing ODA#2 detonation area; handling and transport of all MD to smelter facility, confirmation of MD into ingot form, and all prescribed reporting stipulated under the Army and DoD approved WBG.
- 1.9 The contractor will assure that none of the materials used contain Class I ODCs as defined by Public Law 102-484, Section 326.
- 1.10 Work will be performed in accordance with (IAW) the following document(s):
 - a. 1998 MOA Memorandum of Agreement (MOA) FOR The Ravenna Army Ammunition Plant (RVAAP) Among Headquarters, U.S. Army Industrial Operations Command (IOC), The United States Property and Fiscal Officer (USPF&O) For Ohio, and The Ohio Army National Guard (OHARNG)
 - b. 2001 Amendment 1 To The Memorandum Of Agreement (MOA) For The Ravenna Army Ammunition Plant (RVAAP) Among Headquarters, U.S. Army Industrial Operations Command (IOC), The United States Property and Fiscal Officer (USPF&O) For Ohio, and The Ohio Army National Guard (OHARNG) IOC Pamphlet 385-1 Classification and Remediation of Explosive Contamination
- 1.10 Contractor will exercise care near existing groundwater monitoring wells within ODA#2 to ensure that no damage to such wells occurs. Damage to these wells will be the responsibility of the contractor to either repair or replace IAW Ohio EPA regulations or at the discretion of RVAAP COR.

2.0 REQUIREMENTS:

- 2.1 All tasks I will be accomplished IAW the provisions contained in this SOW.
- 2.2 All physical work will be accomplished within 9 months after the delivery order award. Contract closeout will take place as soon as possible after final acceptance by the contracting officer.
- 2.3 The contractor will prepare weekly progress reports during field activities in a form approved by the RVAAP COR. Monthly reports will be submitted at other times during the contract term. Activities and progress will be photographically documented. An electronic copy will be sent to each of the project team members.
- 2.4 The contractor is responsible for complying with all federal, state, local, Army, and installation specific laws, regulations, and policies pertaining to environmental, human health and safety, and security issues; inclusive with submission of permits and regulatory notices.
- 2.4 All MEC disposition and MD destruction and rendering non-recognizable as military will be in accordance with the US Army Technical Center for Explosive Safety and the Department of Defense Explosive Safety Board approved WBG ESS Revision 3 Amendment 2.
- 2.5 The contractor will prepare as prescribed in Section 3.2 a report of hard copy and electronic computer disk copies, within 30 days of completion of the subject MEC demolition and MD destruction inclusive with chain-of-custody forms confirming completed actions in the destruction of MD to unrecognizable condition.
- 2.6 Surface clearance of all ODA#2 areas affected by subject MRAs' MEC detonation points; removing metal scrap and any MD .

3.0 INSPECTION/REPORT/FINAL ACCEPTANCE:

- 3.1 The Ravenna AAP COR will monitor contractor performance on this SOW.
- 3.2 The contractor will prepare and submit a Draft Report documenting this MEC and MD project activity and verification of compliance with the SOW within 90 days of completion of the fieldwork. Members of the U.S. Army Corps, OHARNG, and the Ravenna BRAC-D project team will have 30 45 days to review and comment on the report.

PDF copies of the draft report are required as follows:

- US Army Corps Louisville COR =1 printed copy, 1 MS WORD & 1 PDF electronic copy
- OHARNG - 2 printed copies
- OEPA - 1 printed copy

- 3.3 Once the subject report has been distributed and reviewed, the contractor will prepare a formal comment response table to address all submitted written comments. In the preparation of the comment response table by the contractor, actual language intended for use in the revised document will be submitted.
- 3.4 Following the preparation and submission of the comment resolution table, the contractor (at their discretion) will host a meeting of the project team at RVAAP to discuss comments on the Draft Report and the contractor's proposed response.
- 3.4 The contractor will revise the report to include any pertinent comments that arise from the review and comment resolution meeting. The contractor will forward copies of the Final Report directly to the environmental team members detailed below:
- RVAAP BRAC-D- 1 PDF file on CD
 - US Army Corps Louisville COR =1 printed copy, 1 MS WORD & 1 PDF electronic copy
 - OHARNG - 2 printed copies
 - OEPA - 1 printed copy
- 3.5 The final acceptance of this project will take place upon receipt by the contractor of written approval from the U.S. Army Corps of Engineers, Louisville District COR

**SCOPE OF WORK REQUESTING PROPOSED MODIFICATION TO:
EXISTING CONTRACT NO. W912QR-04-D-0040 TASK 0003
RAVENNA ARMY AMMUNITION PLANT – WINKLEPECK BURNING GROUNDS
RAVENNA, PORTAGE COUNTY, OH**

The proposed action requests to modify contract W912QR-04-D-0040-0003, Ravenna Army Ammunition Plant (RVAAP) Winklepeck Burning Grounds. The modification will continue excavation, sifting/sorting, confirmatory lab analysis, and final disposition of soils contaminated with military munition items, munitions related chemicals, and petroleum based organics. Additional soil volumes will be excavated to meet Ohio EPA cleanup standards as prescribed under a Record of Decision agreement by the U.S. Army and the Director of Ohio EPA. The identified contractor's work under the contract is unchanged for "Remedy in Place (RIP)" with the exception of additional soil excavation and supporting analyses. This is a result of additional contamination that is anticipated to exist. Present laboratory chemical analyses and physical munitions reconnaissance have confirmed that additional soil volumes will probably need to be removed both in lateral and vertical extent in order to meet Ohio EPA approved cleanup standards. Areas under this modification request removal of additional soil removal volumes that are site specific to RVAAP Winklepeck Burning Grounds. Currently, burn pads No. 61, 61A, and 70 are particularly of concern. However, others may be involved.

The work to be performed under this modification is as follows:

1. Additional soil quantities estimated to be removed collectively from Pads 61, 61A, 67, and/or 70:
 - ☐ No greater than 2,000 cu.yds. (2,960 Tons)
2. Additional confirmatory sampling and chemical analyses no greater than:
 - ☐ 8 each asbestos – Polarizing Light Microscopy (as prescribed in current contract)
 - ☐ 8 each Synthetic Volatile Organic Compounds (SVOCs) (as prescribed in current contract)
 - ☐ 8 each Cyclotrimethylenetrinitramine or commonly referred to as RDX (as prescribed in current contract)
 - ☐ 1 each Toxicity Characteristic Leaching Procedure (TCLP) for characterizing the post-process soil stockpile generated based on the proposed option excavating 2,000 cu.yds. (2,967 Tons) – TCLP analytical results.
3. Contractor will excavate in lateral and vertical extent from the existing contract confines of Pads 61, 61A, and 67 excavations or other areas at Winklepeck Burning Ground as needed to satisfy all regulatory requirements. The proposed further digging of the pad areas will be based on previous confirmatory analyses having warranted the need for further excavation. All lateral and vertical extents to the lifts of soil quantities will be adhered to as previously described within the current mentioned contract and Ohio EPA approved Final Remedial Work Plan/Remedial Design July 25, 2008.

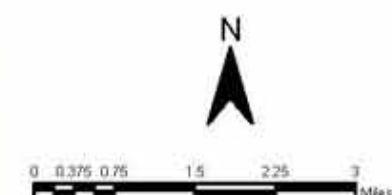
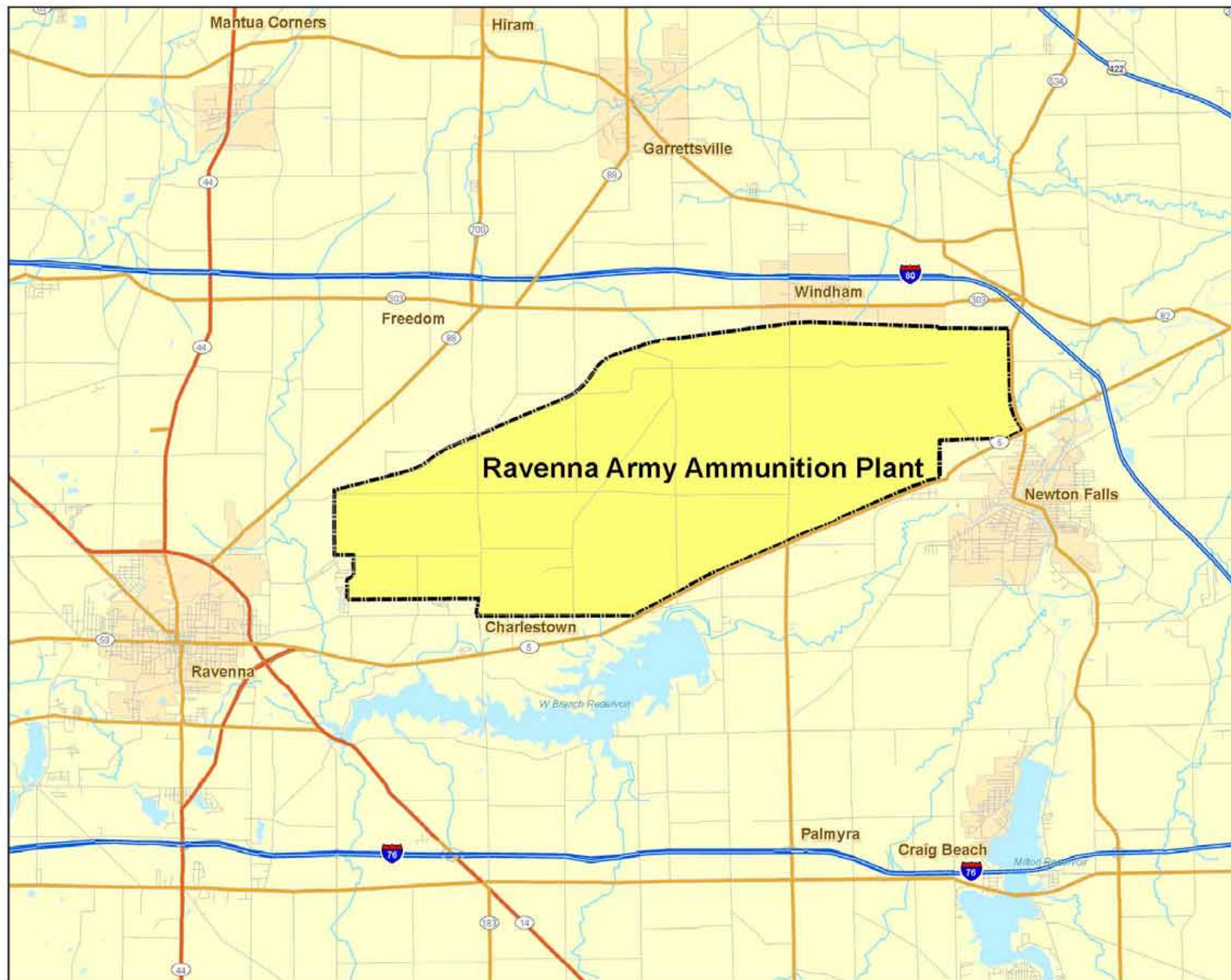
As prescribed by the existing contract; any furthered excavation will be backfilled with approved clean soil from an offsite source, re-graded and seeded with an approved grass mixture as required by the OHARNG Natural Resources.

This modification does not affect the period of performance established under the last modification. Consequently, the period of performance ends on 30 September 2009.



Appendix B

Figures




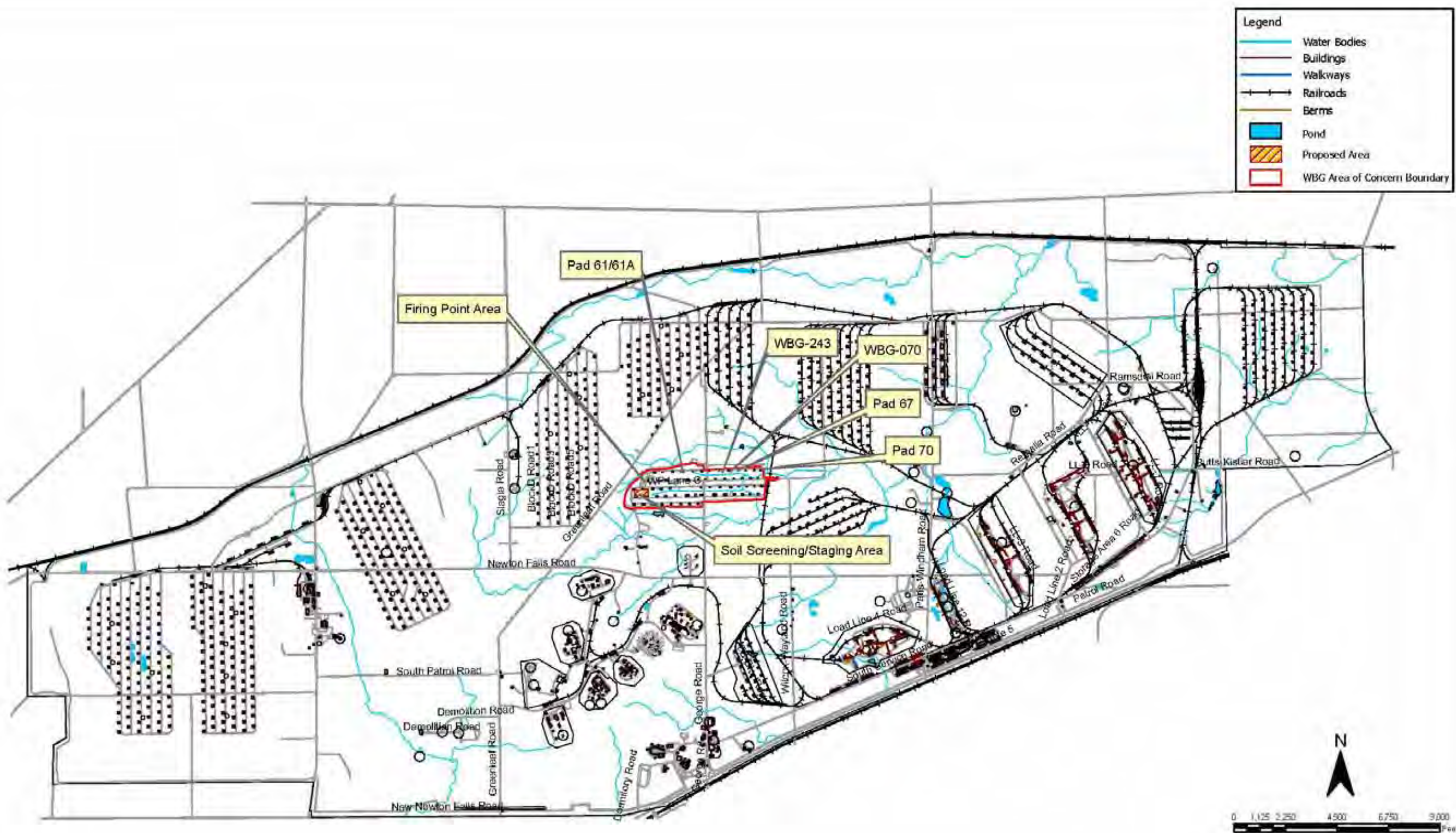
 MKM Engineers, Inc.
4153 Bluebonnet Drive
Stafford, TX 77477
Ravenna Army Ammunition Plant
Ravenna, OH

FIGURE 1 RVAAP Location Map

Drawn On: 5/5/2008 Drawn By: QX



Legend

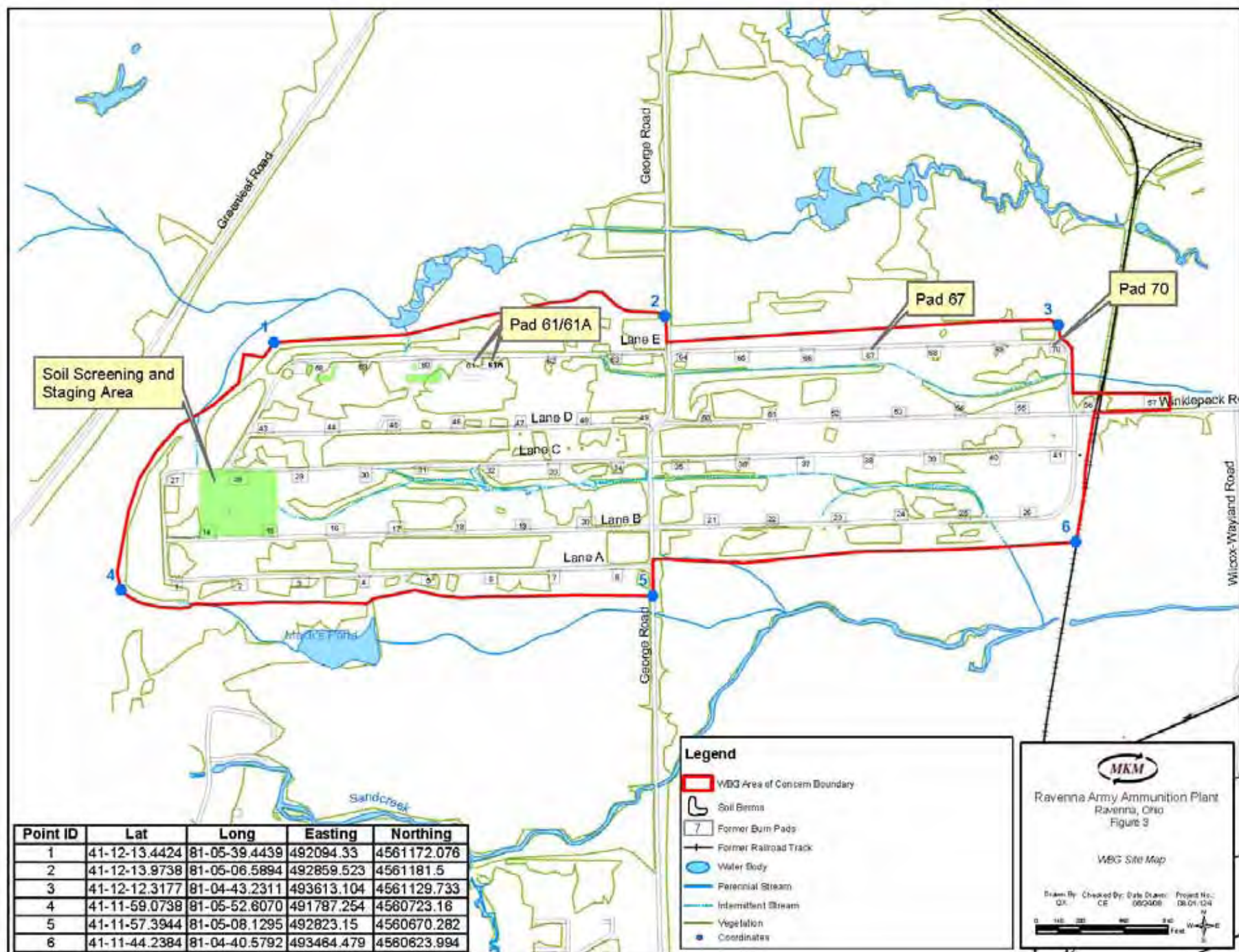
- Water Bodies
- Buildings
- Walkways
- Railroads
- Berms
- Pond
- Proposed Area
- WBG Area of Concern Boundary



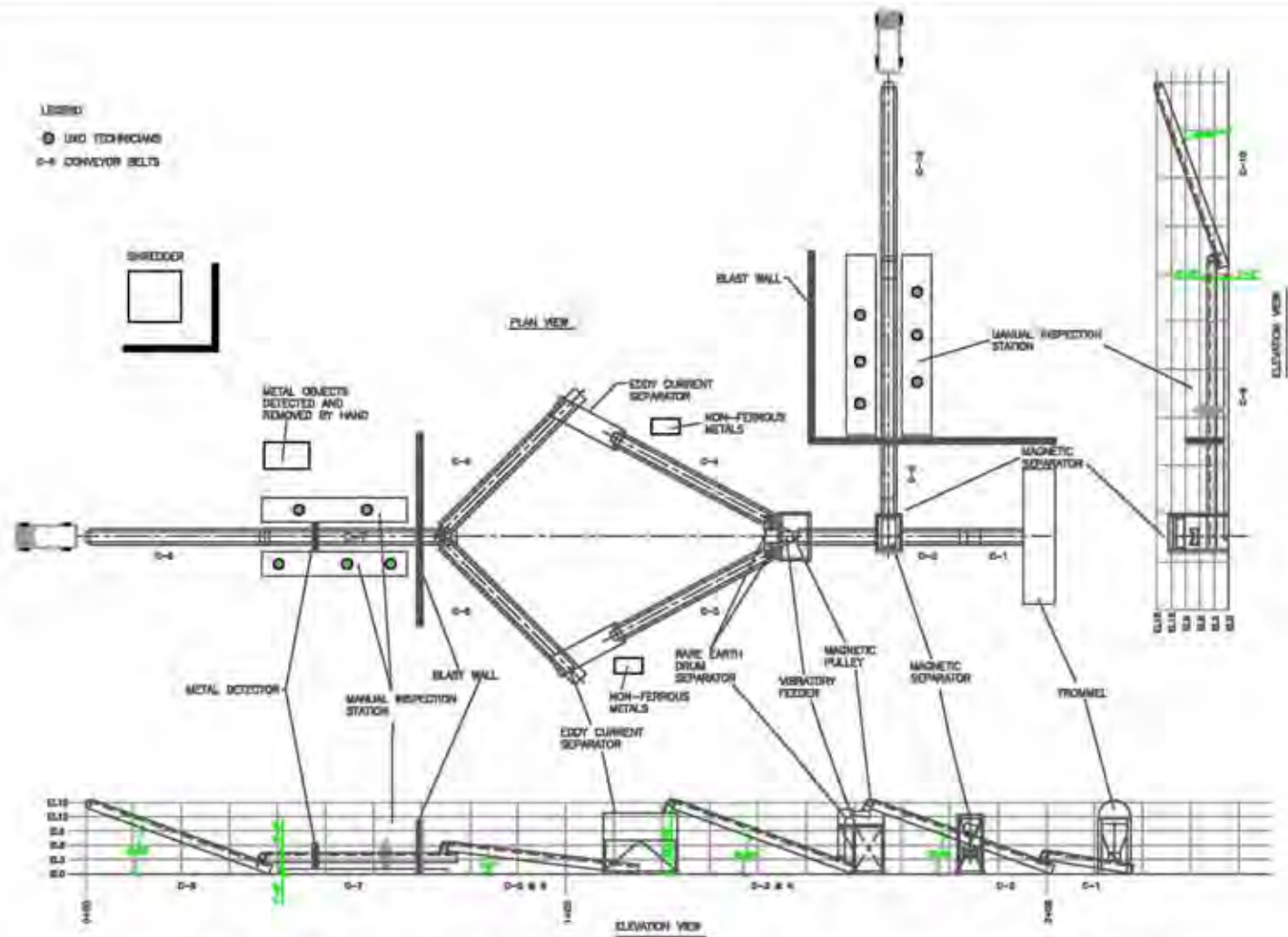
MKM Engineers, Inc.
 4153 Bluebonnet Drive
 Stafford, TX 77477
 Ravenna Army Ammunition Plant
 Ravenna, OH

FIGURE 2 WBG Location Map

Drawn On: 5/2/2008 Drawn By: QX



LEGEND
 • UXO TECHNICIAN
 C-# CONVEYOR BELT



MKM ENGINEERS, INC.

PROJECT NO.:	04-09-0020	DRAWING NO.:	04-09-0020-E
DATE DRAWN:	10/13/2004	SCALE:	AS SHOWN
DRAWN BY:	MDD	APPROVED BY:	MAL



www.mkmeng.com

FIGURE 4 - SCHEMATIC OF SIFTING OPERATIONS

MEC SURVEY AND MR AT WBG
 RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO

RAVENNA ARMY AMMUNITION PLANT
 RAVENNA, OHIO PORTAGE COUNTY
 MARK 19 FIRING RANGE
 ENVIRONMENTAL EXCAVATIONS (AREA WAS FORMERLY THE WINKLEPECK BURNING GROUNDS)
 PREPARED FOR PIKA INTERNATIONAL, INC.

- DRAWING NOTES
1. BEARINGS ARE GRID NORTH, NAD83
 OHIO STATE PLANE RECTANGULAR
 COORDINATES, NORTH ZONE, ORIGINATING
 FROM RAV 3 DISC IN CONC.
 NS51955.072 12357760.413 ELY (NGVD89)1034.46
 2. RAV-3 COORDINATES ARE GRID, CONVERGENCE IS 0.55.761
 3. COMBINED SCALE FACTOR USED (SCALED AT RAV-3)
 0.999895 DOWN TO GRID (1,000.100 UP TO SURFACE)
 4. YOU MAY DOWNLOAD THE FREE UTILITY CORPSON
 AT <http://crunch.tac.army.mil/software/corpscon/corpscon.html>
 TO CONVERT COORDINATES TO ANOTHER MAP PROJECTION

PREPARED IN MAY 2009 BY:



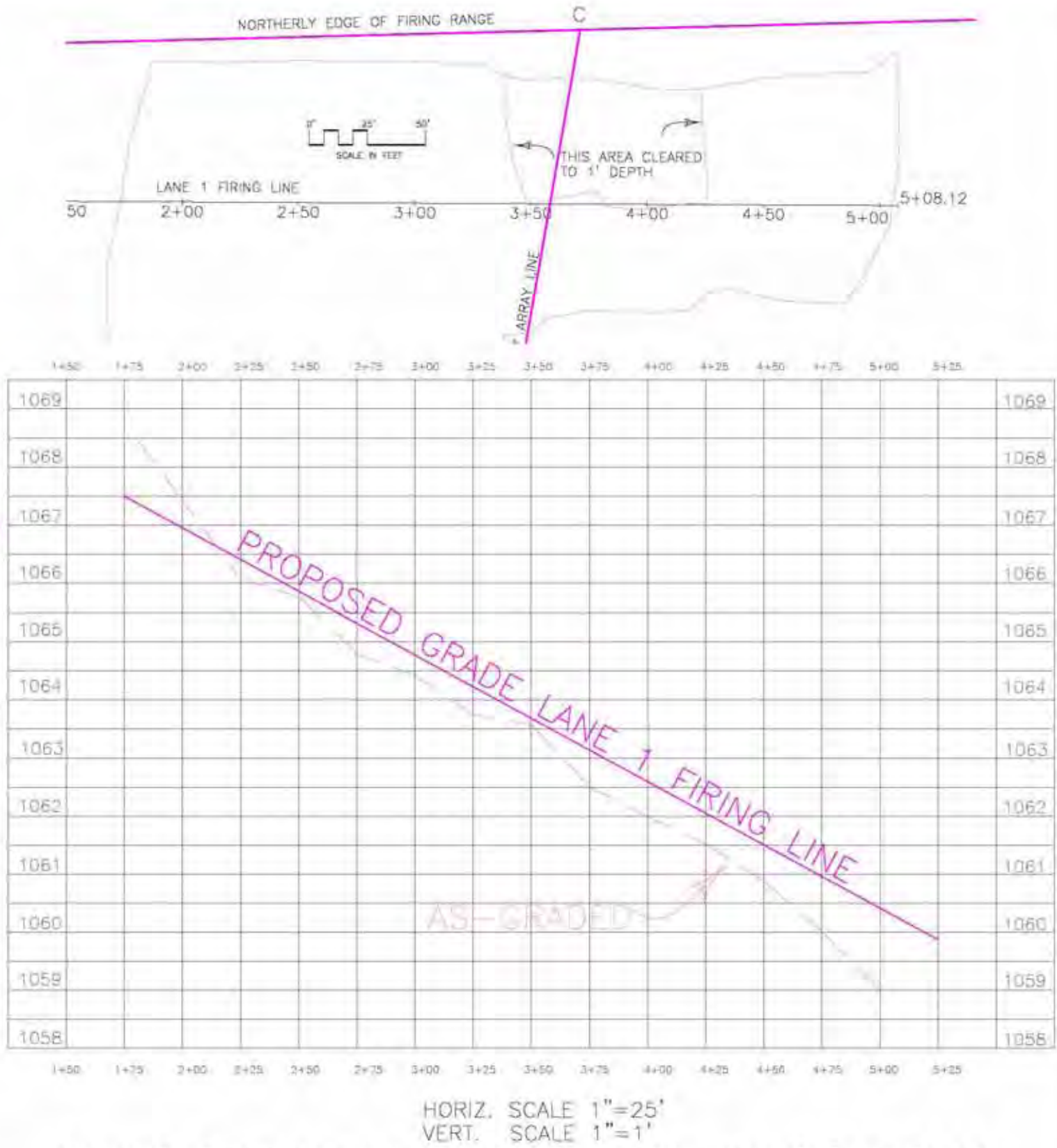
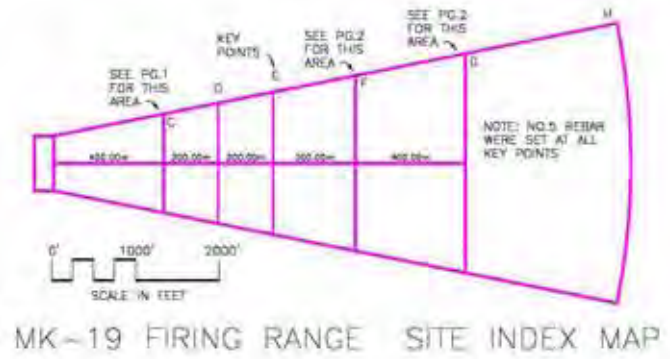



Figure 5 - Excavation Limits Pad 61/61A and Berm Area South of Pad 61

RAVENNA ARMY AMMUNITION PLANT
RAVENNA, OHIO PORTAGE COUNTY
MARK 19 FIRING RANGE

(AREA WAS FORMERLY THE WINKLEPECK BURNING GROUNDS)

ENVIRONMENTAL EXCAVATIONS

PREPARED FOR PIKA INTERNATIONAL, INC.

DRAWING NOTES

1. BEARINGS ARE GRID NORTH, NAD83
OHIO STATE PLANE RECTANGULAR
COORDINATES, NORTH ZONE ORIGINATING
FROM RAV 3 DISC IN CONC.
N561955.072 E2357760.413 ELV (NGVD83)1034.46
2. RAV-3 COORDINATES ARE GRID. CONVERGENCE IS 0.55.761
3. COMBINED SCALE FACTOR USED (SCALED AT RAV-3)
0.999889 DOWN TO GRID (1.000105 UP TO SURFACE)
4. YOU MAY DOWNLOAD THE FREE UTILITY CORPSCON
AT <http://crunch.isc.army.mil/software/corpscon/corpscon.html>
TO CONVERT COORDINATES TO ANOTHER MAP PROJECTION

PREPARED IN MAY 2009 BY:



NEAR FORMER BURNING PAD 67

NORTHERLY EDGE OF FIRING RANGE

GRID NORTH



1100M TARGET ARRAY LINE

AREA CLEARED
TO A DEPTH
OF 1'-3'

NORTHERLY EDGE OF FIRING RANGE

G

101°18'36"
TYP.

LIMITS OF SURFACE EXCAVATION

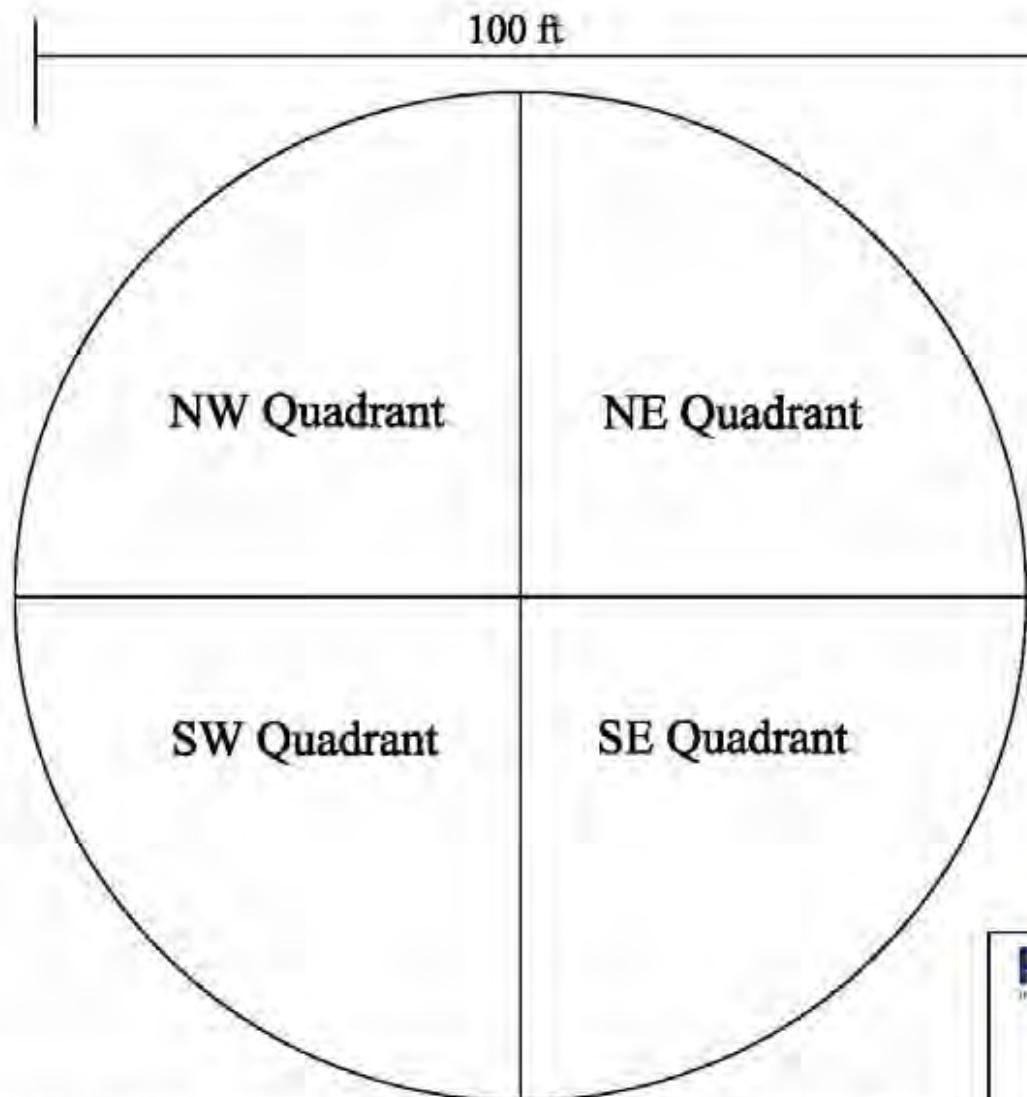
GRID NORTH



NEAR FORMER BURNING PAD 70

1500M TARGET ARRAY LINE

Figure 6 - Excavation Limits Pad 67 and Pad 70



Note: The Ohio EPA requires 4 MI samples be collected from the designated demolition area following demolition operations - (i.e., one 30 aliquot composite sample from each quadrant of the 100 ft X 100 ft foot area). This figure depicts the grid system used for collecting the 4 MI samples from the 100 ft X 100 ft foot area.

PIKA
INTERNATIONAL, INC.

PIKA INTERNATIONAL, INC.
12723 Capricorn Dr. Ste#500
Stafford, TX 77477

**Ravenna Army Ammunition Plant
Ravenna, OH**

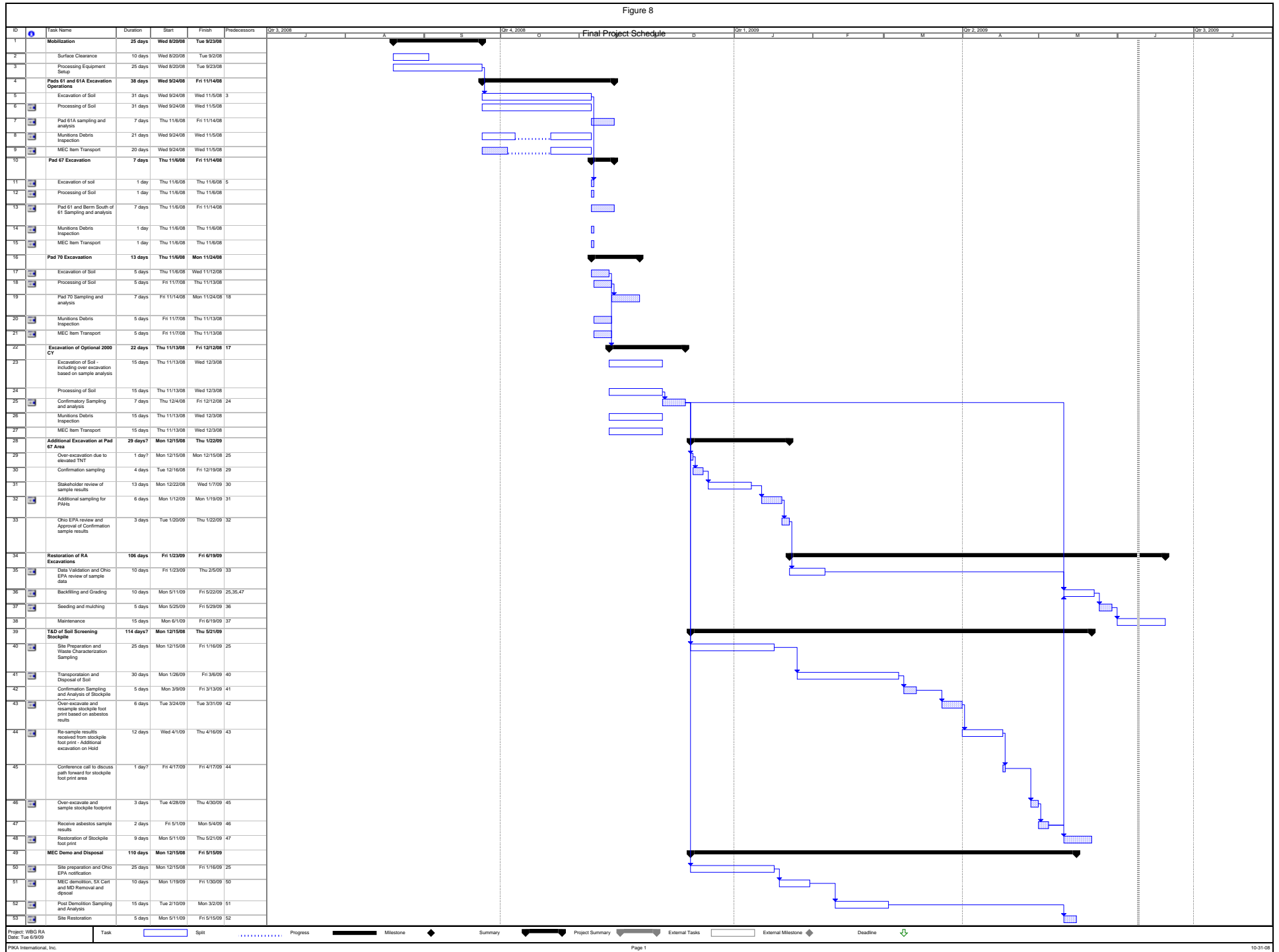
Figure 7

Grid System Used to Collect 4 MI
Samples From a 100 ft X 100 ft Area

Drawn On: 2/9/2007

Drawn By: QX

Figure 8





Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix C

Monthly and Weekly Field Reports and Photo Documentation

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	1
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	08-25-08 to 08-29-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Began mobilizing components of the sift plant from Load Line 4 to Winklepeck. Surface cleared Pad 61/61A excavation areas. Initiated surveying of Remedial Action (RA) excavation areas at Pads 61/61A including installation of baseline and grade stakes. Cleared ground level vegetation from Pads 61/61A and the soil processing area. 				
<p>Other:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information)</p> <p>Visitors: Irv Venger – RVAAP</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of Sift Plant	50% (task started 8-20-08)	50%
Excavation at Pad 61/61A	-	-
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on Excavation Near Pad 67	-	-
Confirmation Sampling - Pad 67 Area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 Area Excavation.	-	-
Backfilling and Restoration of Excavation Areas	-	-
T&D of Soil Screening Stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Internal site inspection	None	None	Not Applicable
Major Problems and Resolution: None			
Schedule for Next Week <ul style="list-style-type: none"> Initiate set up of sift plant. Complete surveying and marking RA excavation areas at Pads 61/61A . 			
Refer attached Schedule for percentage of work completed and projected completion dates.			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Using shielded excavator to clear heavy brush and saplings from Pads 61/61A excavation areas.



Picture showing the gravel area at soil processing area cleared of vegetation and graded for set up of sift plant.



Off loading components of the sift plant at Winklepeck Soil Processing Area.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG PROJECT NUMBER 08-01-124

DATE INSPECTED 8-28-08 INSPECTOR'S NAME J. M. Lee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?			X
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?	X		
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	2
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	09-01-08 to 09-05-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed mobilizing components of the sift plant from Load Line 4 to Winklepeck. Initiated setup of sift plant. Completed surveying of Remedial Action (RA) excavation areas at Pads 61/61A including installation of baseline and grade stakes. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008)	15%	65%
Excavation at Pad 61/61A	-	-
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Internal site inspection	None	None	Not Applicable
Major Problems and Resolution: None			
Schedule for Next Week <ul style="list-style-type: none"> Continue set up of sift plant. Install erosion control measures at Pads 61 and 61A. 			
Refer attached Schedule for percentage of work completed and projected completion dates.			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Picture showing set up of the trommel screen and conveyors.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG PROJECT NUMBER 08-01-124

DATE INSPECTED 9-3-08 INSPECTOR'S NAME J D Mc Lee

PIKA ON SITE REP. McL Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?			X
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	3
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	09-08-08 to 09-12-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued setup of sift plant. Completed Installing erosion control measures at Pads 61 and 61A. Conducted a kickoff meeting with the client and regulators 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Mark Patterson – RVAAP, Tom Chanda – USACE, Glenn Beckam – USACE, John Jent - USACE, Kate Anthony – MKM, and Eileen Mohr and Todd Fisher – Ohio EPA, Derek Kinder – USACE, Joe Vann, USACE, Mark Nichter – USACE.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008)	10%	75%
Excavation at Pad 61/61A	-	-
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Internal site inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Ohio Army National Guard needed to conduct firing at the range on 10 September in addition to the previously scheduled firing on 11 Sept 2008. As such work, field work was rescheduled to both Friday, 12 Sept and Saturday 13 Sept 2008. Heavy rains hindered progress of setup operations on Friday and Saturday.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Complete set up of sift plant. Complete installation of Blast walls. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Positioning eddy current magnet during setup.



Picture showing both eddy current magnets in place.



Installing chutes on eddy current magnets.



Pictures showing chutes installed on eddy current magnets.



Initiating installation of control panel and power hook-ups for sift plant.



Picture showing trommel screen, ferrous magnet and eddy current magnets in place to date. Effluent conveyors and blastwalls to be installed next. Picture also showing the very wet site conditions at weeks end.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION W B G (ADRA) PROJECT NUMBER 08-01-124

DATE INSPECTED 9-9-08 INSPECTOR'S NAME J. D. McGee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	4
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	09-15-08 to 09-19-08
Project:	Winklepeck Burning Ground RD/RA			
Summary of Activities <ul style="list-style-type: none"> Completed setup of sift plant components. Continued installation of Blast walls. Continued electrical wiring of the sift plant. Completed installation of long boom for the excavator. 				
Others: <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Mark Patterson – RVAAP.				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008)	10%	85%
Excavation at Pad 61/61A	-	-
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Internal site inspection	None	None	Not Applicable
<p>Major Problems and Resolution: None.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Complete electrical wiring of sift plant. Complete installation of Blast walls. Begin excavation operations at Pads 61/61A. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Constructing blastwalls for installation at soil and metal inspection areas.



Wiring components of the sift plant.



Picture showing long boom installed on excavator. Long boom is needed to provide reach for loading trommel screen.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG. (RDRA) PROJECT NUMBER 08-01-124

DATE INSPECTED 9-18-08 INSPECTOR'S NAME J. D. Mc Kee

PIKA ON SITE REP. McL Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	5
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	09-22-08 to 09-26-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed installation of Blast walls at sift plant inspection areas. Completed electrical wiring of the sift plant. Initiated excavation and sift operations at Pad 61. Approximately 230 CY of soils processed through sift plant. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Mark Patterson – RVAAP.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	15%	100%
Excavation at Pad 61/61A (start 23 Sept 2008)	4%	-
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
None	None	None	Not Applicable
<p>Major Problems and Resolution: Some down time as a result of required adjustments and minor repairs to sift plant.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue excavation and sift operations at Pads 61/61A. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Picture showing construction of blastwall around inspection station along effluent conveyor for ferrous metal items.
Similar blastwall installed at inspection station along the final soil conveyor.



Overview of plant following set up.



Small berm on east side of Pad 61 prior to excavation (top left).



Excavating small berm on east side of Pad 61 for transport to processing area.



Picture showing small berm removed at Pad 61 area.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 9-25-08 INSPECTOR'S NAME J.D. McKeel

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	6
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	09-29-08 to 10-03-08
Project:	Winklepeck Burning Ground RD/RA			
Summary of Activities <ul style="list-style-type: none"> Completed excavation of small berms at Pad 61. Initiated excavation at Pad 61/A. Approximately 448 CY of soils processed through sift plant during the week. 				
Others: <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Mark Patterson – RVAAP.				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008)	16%	20%
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: Ferrous magnet belt roller broke 9-29-08 and repaired 9-30-08.

On 10-1-08 a MK II hand grenade was recovered at the ferrous magnet conveyor inspection station. The grenade had the top of the safety lever and safety pin intact. The grenade was taken to Magazine 1501 to await demolition and disposal. Upon discovery of the item, PIKA SUXOS immediately notified the RVAAP PM who in turn notified PIKA Corporate Office, MKM, COR, USACE, and Ohio EPA. The PIKA Corporate office contacted Mr. Cliff Doyle at USATCES who indicated that PIKA need not shut down operations as long as all applicable safety measures for the MGFD were being implemented (IAW DoD 6055.09 STD & DDESB TP-16) and a revised ESS Amendment was submitted as soon as possible. PIKA updated the IBD by moving their markers out to 390 feet MSD and continued excavating & processing soils. The shielding requirement per TP-16 for the Mk II grenade is 2.37" Plexiglass; all PIKA equipment is currently shielded with 3" Plexiglass. Equipment operators and UXO personnel located at the inspection stations are currently provided >k24 protection (12 ft for NEW 0.125 lbs). PIKA submitted an ESS Amendment 10-3-08 for review.

Schedule for Next Week

- Continue excavation and sift operations at Pads 61/61A.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Loading excavated soil into trommel screen for processing through plant.



Picture showing west berm (top right) at Pad 60 prior to excavation.



Excavating west berm at Pad 60 for transport to processing plant.



Picture showing west berm removed at Pad 60.



Excavating Pad 61A.



Picture showing Pad 61A excavation to date.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 10-2-08 INSPECTOR'S NAME J.D. Mc Lee

PIKA ON SITE REP. Mel Lau.

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?			
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

Winklepeck Burning Grounds

Gate Control Log

Month: Sep 08

[illegible]

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	7
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	10-06-08 to 10-10-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued excavation at Pad 61A and soil processing. Approximately 544 CY of soils processed through sift plant during the week. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Mark Patterson – RVAAP.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008)	16%	36%
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Front trommel drive wheel bearing broke 10-08-08. Replacement ordered for express delivery 10-9-08 at which time 2 new front wheel bearings installed.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue excavation and sift operations at Pads 61/61A. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Excavation operations at Pad 61A.



Processing excavated soil from Pad 61A.



Processed soil stockpile to date.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 10-8-08 INSPECTOR'S NAME Jim McFee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

W E E K L Y R E P O R T

Prime Contract No:	W912QR-04-D-0040		Report No.	8
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	10-13-08 to 10-17-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued excavation at Pad 61A and soil processing. Approximately 692 CY of soils processed through sift plant during the week. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Mark Patterson – RVAAP.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008)	11%	47%
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Thursday, 16 Oct 2008 - Controller for shaker pan malfunctioning and needs repaired. Part ordered for Saturday delivery and installation; however RTLS is holding weekend deer hunts and will be restricting access to the RVAAP. No excavation and sifting operations conducted 16 Oct 2008.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Complete excavation and sift operations at Pads 61/61A. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Processing excavated soil from Pad 61A. 2116 CY processed to date.



Excavation operations at Pad 61A. Approximately 85% complete at this location.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 10-16-08 INSPECTOR'S NAME Jim Mc Lee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	9
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	10-20-08 to 10-24-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed excavation at Pad 61A. Initiated excavation at Pad 61 area; including cut in berm south of pad 61 Approximately 700 CY of soils processed through sift plant during the week. 3,594 cubic yards excavated from Pads 61 and 61A to date. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Eileen Mohr – Ohio EPA.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008)	33%	80%
Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-

Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: New controller and bearings installed in ferrous mag shaker pan. Area in center of Pad 61A required "shallow" over excavation to remove stained soils and visible MD. Approx 100 cubic yards total. Depth ranged from a minimum of 3-inches to a maximum of 1-foot across the area before visible staining and MD was removed. Ohio EPA and USACE reps will be on-site next week to determine if modifications to Pad 61A sampling scheme will be required.</p> <p>Tar roofing shingles and debris exist within final excavation limits at berm south of Pad 61 – also removed 20CY of 105 smoke canisters (MD) from the berm during excavation. No MEC items recovered. Ohio EPA and USACE will evaluate need to extend excavation within berm next week during site visits.</p> <p>Schedule for Next Week</p> <ul style="list-style-type: none"> Complete excavation and sift operations at Pad 61. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Picture showing shallow over excavation area within Pad 61A.



Picture showing last remaining stained area with over excavation prior to removal.



Initiating cut in berm south of Pad 61.



Final excavation cut within berm south of Pad 61.



Close up of final cut in berm south of Pad 61. Notched area is the resultant over excavation area for sample point WBG-217 that was scoped for removal as par to the RA activities.



Existing layer of tar roofing shingles at limit of excavation within berm south of Pad 61.



Picture showing the pocket of 105 smoke canisters that was removed from berm south of Pad 61.



Initiating excavation in Pad 61 (NW corner).



Excavating southwest corner of Pad 61.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WRG / RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 10-23-08 INSPECTOR'S NAME J.D. Mc Lee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	10
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	10-27-08 to 10-31-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed excavation at Pad 61. Removal at Pads 61 and 61A now complete as per scope of work and in accordance with USACE cut sheets. 3954 CY total (contract estimate was 4490 CY). Continued cut into berm south of Pad 61 using remaining balance of material contracted for removal at Pad 61 and 61A. Approximately 540 CY of soils processed through sift plant during the week; including 180 cubic yards removed from berm south of Pad 61 to date. Grand total of 4134 CY of material removed to date from Pad 61, 61A and berm south of Pad 61. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Eileen Mohr – Ohio EPA, Tom Chanda - USACE.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08)	12%	92%

Confirmation Sampling - Pad 61/61A Excavation	-	-
Follow-on excavation near Pad 67	-	-
Confirmation Sampling - Pad 67 area Excavation	-	-
Excavation at Pad 70	-	-
Confirmation Sampling - Pad 67 area Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: Bearings replaced in eddy current magnet 10-28-08. Wet conditions from rain 10-27-08 and 2-inches of snow 10-29-08 hindered site operations.

10-28-08, Ohio EPA visited Pad 61A over excavation area, Pad 61 excavation and berm south of Pad 61.

During the site visit it was noted that following excavation operations at Pad 61A (including over excavation of stained area in approx center of area) the resultant excavation contours closely match the surrounding terrain/topography and therefore there will not be any sidewalls to sample. As such, we decided that an additional floor sample should be collected in place of the sidewall sample that was planned for this location (as detailed in the approved RD/RA Work Plan) to ensure that the site is sufficiently evaluated relative to meeting the Remedial Action Objectives. To that end, Pad 61A confirmation sampling will include collection of two (2) floor samples; one from each half of the excavation area. Both samples will be collected using the Multi Increment (MI) soil sampling technique in accordance with Section 3.12 of the approved RD/RA Work Plan.

At Pad 61 the sampling requirements that are specified in the RA Work Plan and Sampling Plan will not require any modification. Although, the sidewall sample will only include the western and southern sides of the excavation area as there are no sidewalls on the north and east side, similar to Pad 61A.

During the site visit we also walked the berm area south of Pad 61. The northern portion of the berm has been removed as part of the Pad 61 excavation in accordance with the RA Work Plan. Based on visual observations of the remaining bermed area, Ohio EPA concludes that excavation will have to continue into the berm to remove the visible transite, MD and MEC items. Upon completion of excavation operations within the berm area, the finished excavation area (including over excavation of sample point WBG-217 within the berm) will be evaluated to determine the appropriate number of Confirmation samples etc.. 10-29-08, Tom Chanda with USACE visited the site. Further excavation into the berm south of Pad 61 above the original contract volumes will require Final approval by USACE before any additional excavation options are initiated. If approval is not finalized before PIKA completes current excavation at the berm, then PIKA will mobilize to Pad 67 and 70.

Schedule for Next Week

- Complete excavation and sift operations at berm south of Pad 61.
- Either remain at the berm to initiate additional excavation options; or mobilize to Pads 67 and 70.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Completing excavation operations at Pad 61.



Overview of Pad 61 area following excavation operations.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 10-30-08 INSPECTOR'S NAME Jam. Lee

PIKA ON SITE REP. Mel Low

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	x		
2.	Are all waste containers properly stored and labeled?	x		
3.	Have all assigned employees had HAZWOPER training?	x		
4.	Is at least one on site employee trained in First Aid?	x		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	x		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	x		
7.	Have all employees documented that they have read the Site Specific Work Plan?	x		
8.	Are route maps to the local hospital posted in the office trailer?	x		
9.	Can each on site employee explain how to obtain emergency services?	x		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	x		
11.	Are adequate communications available on site and are they tested daily?	x		
12.	Are daily tail gate safety meetings conducted and properly documented?	x		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	x		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	x		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			x
16.	Are all of the required meters/instruments on site and are back ups available?			x
17.	Are appropriate erosion control measures in place?	x		
18.	Are dust control measures being implemented			x
19.	Are copies of the Work Plan and SSHP available in site trailer?	x		
20.	Are all required on site signs properly posted?	x		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	11
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	11-3-08 to 11-7-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed excavation cut into berm south of Pad 61 using remaining balance of material contracted for removal at Pad 61 and 61A. Completed over-excavation of sample points near Pad 67. Grand total of 4534 CY of material removed to date from Pad 61, 61A (including berm south of Pad 61) and Pad 67. Initiated excavation operations at Pad 70. Grand total of 440 CY of material removed to date from Pad 70 to date. 840 CY total excavated during the week. Collected confirmation soils samples at Pad 61A and excavation near Pad 67. Received asbestos sample results for Pad 61A area. No asbestos detected. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:

	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	8%	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	85% (Results due 11-14-08)	85%
Follow-on excavation near Pad 67 (started and completed 11-6-08)	100%	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	85% (Results due 11-14-08)	85%
Excavation at Pad 70 (started 11-6-08)	50%	50%
Confirmation Sampling - Pad 70 Excavation.	-	-
Confirmation Sampling - Pad 61 Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: Personnel air monitoring results indicated potential air borne lead emissions at the site. All field personnel received blood lead testing Monday, 11-3-08 as a precaution. All blood lead levels were reported within normal ranges. PPE was upgraded to level C until additional personnel air monitoring is complete. PPE level will modified accordingly based on additional air sampling results.

Approval for exercising additional excavation operations was not authorized prior to completing excavation operations at the berm south of Pad 61. As such, equipment was mobilized to Pad 67 area and Pad 70.

Schedule for Next Week

- Complete excavation and sift operations at berm south of Pad 70.
- Either initiate demobilization of sift plant and begin transitioning field operations to transportation and disposal of excavated soils, or initiate additional excavation options at berm south of Pad 61.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Picture showing extent of excavation at berm south of Pad 61.



View from top of berm showing close-up of northern portion removed to date.



Overview of remaining berm (background) south of Pad 61.



Overview of completed excavation at Pad 61.



Completed “over-excavation” for sample points adjacent to Pad 67.



Pictures showing extent of soil pile removed at Pad 70 to date.



Asbestos supervisor performing visual inspection at Pad 61A prior to collecting asbestos confirmation sample.



Clearing MI sample aliquot area (1 of 30) for asbestos supervisor.



Collecting MI sample aliquot from excavation at Pad 61A (SVOC and RDX).



Collecting MI aliquot from sidewall at Pad 67 excavation.



Collecting MI aliquot from floor of excavation at Pad 67.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 11-5-08 INSPECTOR'S NAME J. D. McNeel

PIKA ON SITE REP. Mel Low

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	12
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	11-10-08 to 11-14-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed excavation operations at Pad 70. A total of 360 CY removed from Pad 70 during the week. A grand total of 800 CY excavated and removed from Pad 70. Remobilized to berm south of Pad 61 and initiated additional excavation options at this location. 420 CY total of additional soil excavated from the berm during the week. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Received confirmation from USACE that funds are in place for exercising addition excavation options. As such, upon completion of excavation operations at Pad 70, equipment was remobilized to the berm for continued excavation.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	5% (Results due 11-14-08)	90%
Follow-on excavation near Pad 67 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	5% (Results due 11-14-08)	90%
Excavation at Pad 70 (started 11-6-08)	50%	100%
Additional excavation options at berm south of Pad 61	20%	20%
Confirmation Sampling - Pad 70 Excavation.	-	-
Confirmation Sampling - Pad 61 Excavation.	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: 11-12-08; Re-adjusted screens on sift plant to accommodate increased amount debris encountered at berm.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue excavation at berm south of Pad 61. Collect confirmation samples from Pad 70 and Pad 61. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Excavation operations at Pad 70.



Picture showing pad 70 following excavation operations.



Continued excavation at berm south of Pad 61.



Processing excavated soils from Pad 70 and the berm south of Pad 61.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG, RO/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 11-13-08 INSPECTOR'S NAME J. D. McGee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	13
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	11-17-08 to 11-21-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed gross removal of the berm south of Pad 61. A total of 1,140 CY removed from the berm during the week. A grand total of 1,560 CY excavated and removed from the berm. Performed visual inspections at Pads 61 and 70 for ACM and collected asbestos confirmation samples at these excavations. No visible ACM noted during inspection and asbestos lab results indicated no ACM detected at Pads 61 and 71. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Confirmation samples at Pad 61A and Pad 67 show Asbestos, SVOCs and RDX are below the WBG cleanup goals, however the lab indicates TNT is detected at potentially elevated concentrations. Lab instructed to complete TNT analysis for comparison to WBG cleanup goals.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	10%	100%
Follow-on excavation near Pad 67 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	(Running TNT analysis)	90%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08)	75%	95%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08).	40%	40%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08).	40%	40%
Confirmation Sampling -Berm area south of Pad 61	-	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: TNT is not listed as a COC for the WBG RA. Given the detections noted by the lab while running RDX analysis, USACE and Ohio EPA to determine cleanup goal for TNT to compare to actual detections when lab completes this additional analysis.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Complete excavation operations at berm south of Pad 61. Collect confirmation samples (SVOCs and RDX) from Pad 70 and Pad 61 and collect asbestos, SVOCs and RDX confirmation samples at berm area. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Overview of berm area during excavation.



Close up berm material/debris.



Loading out berm material for transport to processing area.



Sift plant operations.



Asbestos supervisor collecting confirmatory asbestos sample at Pad 70 following visual inspection of the area. No ACM noted.



Asbestos supervisor conducting visual inspection at Pad 61 prior to sampling. No ACM noted.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 11-20-08 INSPECTOR'S NAME J. A. McGee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	14
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	11-24-08 to 11-28-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> • Short work week due to Thanksgiving holiday. • Completed cleanup of visible stained areas at berm for sampling. Heavy snow cover hindered operations. • A total of 140 CY removed from the berm during the week. • A grand total of 1,700 CY excavated and removed from the berm to date. See attached track sheets for all excavation totals to date. • Collected samples (SVOCs and Explosives) from Pads 61 and 70. • Collected asbestos sample from berm area. <p>Others:</p> <ul style="list-style-type: none"> • Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) The asbestos sample indicates asbestos is present at the berm excavation. The amount of asbestos present is below 1%, however the report indicates asbestos is present. IAW the RA Work Plan, the berm area will have to be over-excavated (6-inch lift) and re-sampled.</p> <p>Final TNT results for Pad 67 area were completed by the lab. Results are below WBG cleanup goals.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08)	75%	95%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	45%	85%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08).	45%	85%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08)	40%	40%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Heavy snow cover and intermittent rain/snow hindering site operations.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Complete over-excavation (6-inch lift) at berm south of Pad 61. Complete sifting operations. Collect confirmation samples (asbestos, SVOCs and explosives) from berm area. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Overview of berm area following excavation operations.



Collecting samples at Pad 6.

[illegible]

WBG EXCAVATION TRACKING - Pads 61, 61A, berm south of Pad 61 and Pad 67			
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	COMMENTS
9/23/2008	4	74	1st day - many system adjustments
9/24/2008	9	180	Blown fuzes - down 1-2hrs
9/25/2008	6	120	Probs with mag roller - adjustments required
9/29/2008	5	100	Ferrous Mag roller broke
9/30/2008	6	120	Eriez installed new roller
10/1/2008	14	280	MK II Grnade found
10/2/2008	16	320	No interruptions
10/6/2008	10	200	Conveyor belt broke and repaired
10/7/2008	18	360	No interruptions
10/8/2008	7	140	Trommel bearing and Pin on longboom broke
10/9/2008	0	0	Installed new bearings for trommel
10/13/2008	14	280	Installed replacement pin on long boom excavator first thing in morning
10/14/2008	16	320	no interruptions
10/15/2008	13	260	pocket of wet soils encountered at 61A
10/16/2008	0	0	Controller on shaker pan shot and needs replaced; ordered replacements for Saturday. RTLS denied us access on Saturday for install of controller due to weekend derr hunts.
10/20/2008	0	0	Installed new controller and discovered bearings for the shaker are shot as well
10/21/2008	11	220	Installed new bearings for shaker pan
10/22/2008	15	300	Initiated overexca in Pad 61A mid afternoon
10/23/2008	16	320	None
10/27/2008	18	360	Bearings to eddy current mag shaker failed end of day - new odered for pickup in AM
10/28/2008	3	60	Installed new bearing for shaker on eddy current mag - Rely probs off anon with Shaker pan - rain and snow off and on
10/29/2008			belts slipping - snow all morning - off and on in afternoon - shut down early afternoon
10/30/2008	6	120	wet conditions from melting snow
11/3/2008	0	0	crew received blood tests to evaluate potential lead isse - all persoanel fit tested for PPE upgrade aswell
11/4/2008	15	300	
11/5/2008			MK19 Firing - o site work
11/6/2008	5	100	
TOTALS	227	4534	

WBG EXCAVATION TRACKING - Pad 70 (EST 810 CY total)			
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	COMMENTS
11/6/2008	9	180	
11/7/2008	13	260	Processed all material excavated for the day as well as the balance of stockpile
11/10/2008	10	200	
11/11/2008	8	160	
TOTALS	40	800	

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 11-25-08 INSPECTOR'S NAME J. D. M. Lee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	15
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	12-01-08 to 12-05-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed over-excavation of berm area (6-inch lift). 300 CY of soil removed during over-excavation at berm. A grand total of 2000 CY of material excavated and removed from the berm to date. See attached track sheets for all excavation totals to date. Completed soil sifting operations. Re-collected asbestos sample from berm excavation. No asbestos detected. Collected SVOC and explosives sample from berm excavation area. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Traveled site roads with OHARNG Range Supervisor to discuss and plan for road repairs. SFC Rex Huffenbach identified areas that need fill (can use ballast available on site) and/or regarding. No major repair areas noted at this time. Lab results from berm excavation should be received , 11 December 2008. Results will determine if additional excavation and sifting is required or; if plant demob and subsequent soil T&D operations can commence.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	75%	95%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	10% Only prelim results to date	95%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08).	10% Only prelim results to date	95%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	45%	85%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Last of the soil from berm area is very wet making sift ops very difficult.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Initiate road repair. Complete inspection of non-ferrous MD items recovered from eddy current magnets. Perform preventative maintenance on sift plant and prep for potential tear down. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Overview of berm area (looking from south to north across removal area) following over-excavation of 6-inch lift.



View of northern portion of berm area (looking west). Excavator located in Pad 61 area.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 12-4-08 INSPECTOR'S NAME J. J. Mc Lee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WBG EXCAVATION TRACKING - Pads 61, 61A, berm south of Pad 61 and Pad 67			
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	COMMENTS
9/23/2008	4	74	1st day - many system adjustments
9/24/2008	9	180	Blown fuzes - down 1-2hrs
9/25/2008	6	120	Probs with mag roller - adjustments required
9/29/2008	5	100	Ferrous Mag roller broke
9/30/2008	6	120	Eriez installed new roller
10/1/2008	14	280	MK II Grnade found
10/2/2008	16	320	No interruptions
10/6/2008	10	200	Conveyor belt broke and repaired
10/7/2008	18	360	No interruptions
10/8/2008	7	140	Trommel bearing and Pin on longboom broke
10/9/2008	0	0	Installed new bearings for trommel
10/13/2008	14	280	Installed replacement pin on long boom excavator first thing in morning
10/14/2008	16	320	no interruptions
10/15/2008	13	260	pocket of wet soils encountered at 61A
10/16/2008	0	0	Controller on shaker pan shot and needs replaced; ordered replacements for Saturday. RTLS denied us access on Saturday for install of controller due to weekend derr hunts.
10/20/2008	0	0	Installed new controller and discovered bearings for the shaker are shot as well
10/21/2008	11	220	Installed new bearings for shaker pan
10/22/2008	15	300	Iniitated overexca in Pad 61A mid afternoon
10/23/2008	16	320	None
10/27/2008	18	360	Bearings to eddy current mag shaker failed end of day - new odered for pickup in AM
10/28/2008	3	60	Installed new bearing for shaker on eddy current mag - Rely probs off anon with Shaker pan - rain and snow off and on
10/29/2008			belts slipping - snow all morning - off and on in afternoon - shut down early afternoon
10/30/2008	6	120	wet conditions from melting snow crew received blood tests to evaluate potential lead isse - all persoonel fit tested for PPE upgrade aswell
11/3/2008	0	0	
11/4/2008	15	300	
11/5/2008			MK19 Firing - o site work
11/6/2008	5	100	
TOTALS	227	4534	

[illegible]

[illegible]

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	16
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	12-08-08 to 12-12-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Initiated road repair at areas identified by OHARNG. Began dismantling sift plant following receipt of confirmation samples from berm over-excavation area as results are well below WBG cleanup goals. Completed inspection of recovered non-ferrous MD. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) No visitors. See comments on directions received from USACE in "Major Problems and Resolution Section"</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	Sample results received indicated excavation complete 5%	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	5%	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	5%	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	10% Prelim results received	95%
Over-excavation for Pad 67 area	On hold for USACE approval -	-
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: On 12-11-08 Ohio EPA notified USACE that they have compared the TNT concentrations from Pad 67 to their revised "draft cleanup goals" and now indicate the concentrations are potentially above cleanup goals. USACE directs PIKA to hold off on over-excavating Pad 67 area excavation until they discuss this further with Ohio EPA.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Either prepare for backfilling excavation sites, or initiate over-excavation at Pad 67 area based on revised cleanup goals for TNT. Continue dismantling sift Plant. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Ballast staged at intersection of Lane C and George road for restoration.



Ballast staged at intersection of Lane E and George road.



Hauling ballast for application along western end of Lane C.



Applying ballast along eastern end of Lane C.



Applying ballast at intersection of Lane C and George Road.



Applying initial lift of ballast along area of Lane C.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 12-11-08 INSPECTOR'S NAME J. D. Mc Kee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?	X		
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	17
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	12-15-08 to 12-19-08
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401). A total of 50 CY of additional soil removed from this location. Pumped excavation of standing water prior to excavation – 200 gallons of water collected in poly tank. Tank staged in Building 1047 (Waste storage building) to prevent freezing over the weekend. Collected confirmation samples from Pad 67 over-excavation. Continued disassembly of sift plant. Mobilized crane in for disassembly of trommel and magnets and staged them for subsequent load out. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	5%	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	100%	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	85% Prelim results received 12-19-08	85%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-

MEC Demolition and Disposal

-

-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
Major Problems and Resolution: None.			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Short week due to Holiday break. Field operations will only be conducted on Monday and Tuesday. Continue dismantling sift plant and secure site for holiday break. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Over-excavating Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401).



Picture showing completed over-excavation of sample points WBG-071 and WBG-401 near Pad 67.



Collecting MI soil confirmation samples from excavation.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 12-17-08 INSPECTOR'S NAME J. D. Miller

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	18
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	01-05-09 to 01-09-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Initiated load out of sift plant to off-site storage facility. Began prepping site for soil T&D operations. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	85% Prelim results received 12-19-08 – instructed to collect PAH samples 1-7-08	85%

Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: Project SOW and approved RA Work Plan documents specified RDX only analysis for the Pad 67 area. As such, to date that is all that has been collected for this location. On 1-7-09 USACE indicates Ohio EPA now requires PAH samples be collected from the Pad 67 area excavation. Standing water from recent rains, melting snow and snow will need removed prior to sampling. PIKA will collect additional floor and sidewall samples on Monday, 12 January 2009.

Schedule for Next Week

- Continue demob of sift plant to off-site storage facility.
- Collect additional floor and sidewall sample at Pad 67 area for PAH analysis.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Utilizing crane for load out of magents.



Loading and transporting magnets to off-site storage facility.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBE, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 1-8-09 INSPECTOR'S NAME J. D. McGee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		
	Currently De-Mobing Sift Plant.			
	Snow Cover & Cold, approx 20°			

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	18
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	01-05-09 to 01-09-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Initiated load out of sift plant to off-site storage facility. Began prepping site for soil T&D operations. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	85% Prelim results received 12-19-08 – instructed to collect PAH samples 1-7-08	85%

Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Project SOW and approved RA Work Plan documents specified RDX only analysis for the Pad 67 area. As such, to date that is all that has been collected for this location. On 1-7-09 USACE indicates Ohio EPA now requires PAH samples be collected from the Pad 67 area excavation. Standing water from recent rains, melting snow and snow will need removed prior to sampling. PIKA will collect additional floor and sidewall samples on Monday, 12 January 2009.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue demob of sift plant to off-site storage facility. Collect additional floor and sidewall sample at Pad 67 area for PAH analysis. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Utilizing crane for load out of magents.



Loading and transporting magnets to off-site storage facility.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBE, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 1-8-09 INSPECTOR'S NAME J. D. McGee

PIKA ON SITE REP. Mel Lau

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		
	Currently De-Mobing Sift Plant.			
	Snow Cover & Cold, approx 20°			

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	19
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	01-12-09 to 01-16-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Re-collected floor and sidewall samples from Pad 67 area excavation for PAH analysis per Ohio EPA requirement. Continued load out of plant to off-site storage location and prepping process area for soil load out operations. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	10% Re-collected sample for PAH analysis	95%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	-	-

MEC Demolition and Disposal

-

-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Snow cover etc. hindered sampling effort. Took the majority of the day to pump out the excavation water to allow for sampling. All water contained in site holding tank.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue demob of sift plant to off-site storage facility. Conduct snow removal and mobilize site trailer, porta jon etc. to processing area to facilitate soil T&D operations. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Pumping water from excavation at Pad 67 area to facilitate sampling operations. Based on sample results, water will either be discharged to the site following Ohio EPA requirements; or disposed off-site.



Picture showing water removed from excavation prior to sampling. Thick layer of ice removed and staged on poly to facilitate the pumping operation. Ice was returned to excavation area following sampling operations.



Collecting aliquots of the excavation floor and sidewalls during MI sampling operations.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 1-15-09 INSPECTOR'S NAME J. D. Mc Lee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	20
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	01-19-09 to 01-23-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Initiated and completed MEC demolition operations. 19 items total. See attached tracking sheet for a list of the items. Completed load out of plant to off-site storage location and prepping process area for soil load out operations. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	5% Received final sample for PAH analysis	100%
Backfilling and restoration of excavation areas	-	-

T&D of Soil Screening stockpile	-	-
MEC Demolition and Disposal	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: 1-22-09 Ohio EPA indicates sample results from Pad 67 area are below WBG cleanup and backfilling can commence. Backfilling to be initiated once weather breaks and heavy snow cover is gone.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Initiate load out of soil stockpile. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Hauling final loads of sift plant components to off-site storage area.



Constructing sandbag enclose for MEC demolition.



MK II hand grenade rigged for shot.

MEC TRACKING LOG

Project: Winklepeck Burning
Grounds RA at
Ravenna Army
Contract: W912QR-04-D-0040

Date Recovered	Item Description	Igloo No.
10/1/2008	MK II Hand Gernade	1501
10/1/2008	40 mm Prac Gernade	1501
10/1/2008	(2)P.D. Fuzes (T-Bar)	1501
10/2/2008	(1)P.D. Fuzes (T-Bar)	1501
10/14/2008	(1)P.D. Fuzes M52B1	1501
10/16/2008	(1)P.D. Fuzes M52B1	1501
10/22/2008	(3) Grenade Fuzes	1501
10/22/2008	(1)P.D. Fuzes M52B1	1501
11/7/2008	(3)P.D. Fuzes (T-Bar)	1501
11/7/2008	(1) MK II Hand Gernade (No Fuze)	1501
11/7/2008	(1) B.D. Fuze	1501
11/7/2008	(1) Grenade Fuze	1501
11/16/2008	(2) 40mm Prac Grenade	1501

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WRG RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 1-22-09 INSPECTOR'S NAME J. D. Mc Gee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?			
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	21
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	01-26-09 to 01-30-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Initiated load out of stockpiled soils. 25 loads total for the week. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	4%	4%
MEC Demolition and Disposal	-	90%

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: 1-28-09 Snow Storm shut down load out operations for the day and hindered site operations for remainder of week.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue load out of soil stockpile. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Not Applicable	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Picture showing double liner installed in truck bed prior to filling.



Load out operations.



Load out operations.



Picture showing liner secured and sealed for transport

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WRG RD/RA PROJECT NUMBER 08-01-125

DATE INSPECTED 1-29-09 INSPECTOR'S NAME J. D. Mc Kee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

Start out load of contaminated soil ~~at~~ this week.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	22
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	02-02-09 to 02-05-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued load out of stockpiled soils. 67 loads total for the week. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Visitor: Alan Richards – Ohio Department of Health. Conducted site inspection of soil load out operations. No deficiencies reported.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile	11%	15%
MEC Demolition and Disposal	-	90%

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Very cold morning temperatures hindered site operations during the week.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Continue load out of soil stockpile. Collect post MEC demolition MI soil samples at ODA2. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Securing liner for load out.



Load out operations.



Installing travel tarp prior to exiting site.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 2-3-09 INSPECTOR'S NAME J.D. Mc Kee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	23
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	02-09-09 to 02-13-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued load out of stockpiled soils. 66 loads total for the week. 2-10-09; Collected post MEC demolition MI soil samples from demo area at ODA2. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Visitor: 2-11-09, Alan Richards – Ohio Department of Health. Conducted site inspection of soil load out operations. No deficiencies reported.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile (estimated 10,800 tons total)	12%	27%

MEC Demolition and Disposal	-	90%
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Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
Major Problems and Resolution: None			
Schedule for Next Week <ul style="list-style-type: none"> Continue load out of soil stockpile. 			
Refer attached Schedule for percentage of work completed and projected completion dates.			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Load out operations.



Asbestos worker securing and sealing liner for transport to disposal facility.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 2-12-09 INSPECTOR'S NAME J. J. Mc Lee

PIKA ON SITE REP. Mel Law

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	24
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	02-16-09 to 02-20-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued load out of stockpiled soils. 82 loads total for the week. <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) Visitor: Christy Esler – VISTA Sciences Incorporated – conducted inspection of load out operations. No issues to report.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile (estimated 10,800 tons total)	16%	42%

MEC Demolition and Disposal	-	90%
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Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
Major Problems and Resolution: None			
Schedule for Next Week <ul style="list-style-type: none"> Continue load out of soil stockpile. 			
Refer attached Schedule for percentage of work completed and projected completion dates.			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Overview of soil pile prior to initiating load out for the week.



Load out operations.



Load out operations



Load secured for shipping.

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WRG, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 2-19-08 INSPECTOR'S NAME J. G. Mc Kee

PIKA ON SITE REP. ~~Met~~ Jim Beaver

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?	X		
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?	X		
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	25
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	02-23-09 to 02-27-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Continued load out of stockpiled soils. 100 loads total for the week. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile (estimated 10,800 tons total)	43%	85%

MEC Demolition and Disposal	-	90%
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Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: None

Schedule for Next Week

- Complete load out of soil stockpile.
- Initiate cleanup of stockpile and load out areas.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Overview of soil pile prior to initiating load out for the week.



Load out operations.



Securing liners for shipment.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WINKLEPECK PROJECT NUMBER 08-01-124

DATE INSPECTED 26 FEB 09 INSPECTOR'S NAME J. D. McLee

PIKA ON SITE REP. BOUYIER

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?			X
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented	X		
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	26
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	03-02-09 to 03-06-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Completed load out of stockpiled soils. 39 total for the week. Initiated cleanup of stockpile and load out area. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile (estimated 10,800 tons total)	15%	100%

MEC Demolition and Disposal	-	90%
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Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: None

Schedule for Next Week

- Initiate backfilling and site restoration as weather and site conditions allow.
- Continue cleanup of stockpile and load out areas.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Photo Log



Overview of soil stockpile area during final load out operations.



Completing load out operations.



Overview of load out area during final load out operations.



Scraping stockpile area for final clean and last loads.

PIKA INRTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBE, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 3-5-09 INSPECTOR'S NAME J. D. McNeel

PIKA ON SITE REP. Jim Bourcier

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?			X
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
* 17.	Are appropriate erosion control measures in place?			X
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

* An additional 100' of silt fence installed on East side of the soil pile this week.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	27
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	03-09-09 to 03-13-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Collected stockpile footprint sample for asbestos analysis on 12 March 09. Demobilized soil stockpile load out equipment and materials. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%

MEC Demolition and Disposal	-	90%
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Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Heavy rains saturated site for the week. Backfilling, final grading, seeding etc. will have to hold off until site conditions are more conducive for this type of work.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Initiate backfilling and site restoration as weather and site conditions allow. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PIKA INTERNAL SITE QUALITY CONTROL INSPECTION

SITE LOCATION WBG, RD/RA PROJECT NUMBER 08-01-124

DATE INSPECTED 3-12-09 INSPECTOR'S NAME J. D. McGee

PIKA ON SITE REP. Jim Bourier

#	ITEM INSPECTED	YES	NO	N/A
1.	Is Spill Kit available and fully stocked?	X		
2.	Are all waste containers properly stored and labeled?	X		
3.	Have all assigned employees had HAZWOPER training?	X		
4.	Is at least one on site employee trained in First Aid?	X		
5.	Have all on site employees documented that they have read the RVAAP Facility Wide Safety and Health Plan?	X		
6.	Have all on site employees documented that they read the Site Specific Health and Safety Plan?	X		
7.	Have all employees documented that they have read the Site Specific Work Plan?	X		
8.	Are route maps to the local hospital posted in the office trailer?	X		
9.	Can each on site employee explain how to obtain emergency services?	X		
10.	Have all on site employees been briefed on what types of ordinance that might be found on site and what to do if found?	X		
11.	Are adequate communications available on site and are they tested daily?	X		
12.	Are daily tail gate safety meetings conducted and properly documented?	X		
13.	Have all on site employees been issued all required PPE and properly trained in its proper use, cleaning and storage?	X		
14.	Have all assigned employees documented that they have read the Facility Wide Sampling Plan?			X
15.	Have all assigned employees documented that they have read the Site Specific Sampling Plan?			X
16.	Are all of the required meters/instruments on site and are back ups available?			X
17.	Are appropriate erosion control measures in place?	X		
18.	Are dust control measures being implemented			X
19.	Are copies of the Work Plan and SSHP available in site trailer?	X		
20.	Are all required on site signs properly posted?	X		

all contaminated soil has now been outloaded.
 site restoration & clean-up is now under way.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	28
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	03-16-09 to 03-20-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Received stockpile footprint sample for asbestos analysis on 18 March 09. Results indicate trace asbestos present. Results are <1% (i.e., non-ACM) however per the Work Plan the area will have to be over excavated and re-sampled. Site conditions too wet to initiate backfilling and final grading operations. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
Backfilling and restoration of excavation areas	-	-
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%

MEC Demolition and Disposal	-	90%
Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: Backfilling, final grading, seeding etc. will have to hold off until site conditions are more conducive for this type of work.

Schedule for Next Week

- Over excavate and re-sample stockpile footprint area for asbestos analysis.
- Initiate backfilling and site restoration as weather and site conditions allow.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	29
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	03-23-09 to 03-27-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Over excavated stockpile footprint area on 24 March 09 and re-sampled for asbestos analysis (5 trucks total). 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	90%

Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: None.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Receive asbestos analysis for re-sample from stockpile footprint.. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



Over-excavating stockpile footprint (6-inch cut) using wheel loader.



Close up of cut within portion of stockpile footprint.



Loading out over-excavated material.



Collecting resample with stockpile footprint.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	30
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	03-30-09 to 04-03-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> No field work conducted this week. 4-1-09 Lab confirms trace amounts of asbestos still present in stockpile footprint area. 4-2-09 received direction from USACE to halt further excavation in stockpile footprint area until clarifications are made relative to regulatory requirements for cleanup (i.e., <1% vs. Work Plan requirements of excavating until no asbestos detected). <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) 4-2-09 received direction from USACE to halt further excavation in stockpile footprint area until clarifications are made relative to regulatory requirements for cleanup (i.e., <1% vs. Work Plan requirements of excavating until no asbestos detected). Army (RVAAP Facility Manager) and USACE planning to have internal discussions and then proceed with discussions with Ohio EPA.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	90%

Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Need to resolve asbestos cleanup requirements for stockpile footprint area. Army (RVAAP Facility Manager) and USACE currently planning to have internal discussions and then proceed with discussing with Ohio EPA.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Resolve asbestos cleanup goals for stockpile footprint area. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	31
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	04-06-09 to 04-10-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> No field work conducted this week. Site conditions still too wet for grading and backfilling etc. Additional digging at stockpile footprint contingent on discussions between USACE and Ohio EPA relative to applicable regulatory requirements for cleanup (i.e., <1% vs. Work Plan requirements of excavating until no asbestos detected). <p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	90%

Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Need to resolve asbestos cleanup requirements for stockpile footprint area. Army (RVAAP Facility Manager) and USACE currently planning to have internal discussions and then proceed with discussing with Ohio EPA.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Resolve asbestos cleanup goals for stockpile footprint area. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	32
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	04-13-09 to 04-17-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> • Teleconference on 17 April 09 with RVAAP FM, USACE and PIKA to discuss path forward relative to asbestos sampling results and requirements for over-excavation of stockpile footprint are. The following steps were agreed upon: <ul style="list-style-type: none"> - Re-sample RA excavation areas using new lab capable of reporting None Detect, as applicable - Over-Excavate stockpile footprint and re-sample as described above - USACE to continue regulatory research to verify applicable cleanup goals for asbestos etc. - Conduct another conference once all results are in and discuss all findings 				
<p>Others:</p> <ul style="list-style-type: none"> • Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) see above</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	90%

Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: Some delay incurred waiting for decision relative to cleanup goals for asbestos at WBG.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Resample RA excavations. Over-excavate and re-sample stockpile footprint area using new lab. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	33
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	04-20-09 to 04-24-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> 22 April 09 – Re-sample results for asbestos analysis from the RA excavations received and reported and confirmed as none detect. 24 April 09 - Received final confirmation from both USACE and RVAAP Facility Manger on below path forward that was originally discussed during the 17 April 09 teleconference: <ul style="list-style-type: none"> - Re-sample RA excavation areas using new lab capable of reporting None Detect, as applicable - Over-Excavate stockpile footprint and re-sample as described above - USACE to continue regulatory research to verify applicable cleanup goals for asbestos etc. - Conduct another conference once all results are in and discuss all findings Based on above, the over-excavation and re-sampling of the stockpile footprint will be re-scheduled for next week. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) see above</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%

MEC Demolition and Disposal	-	90%
Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

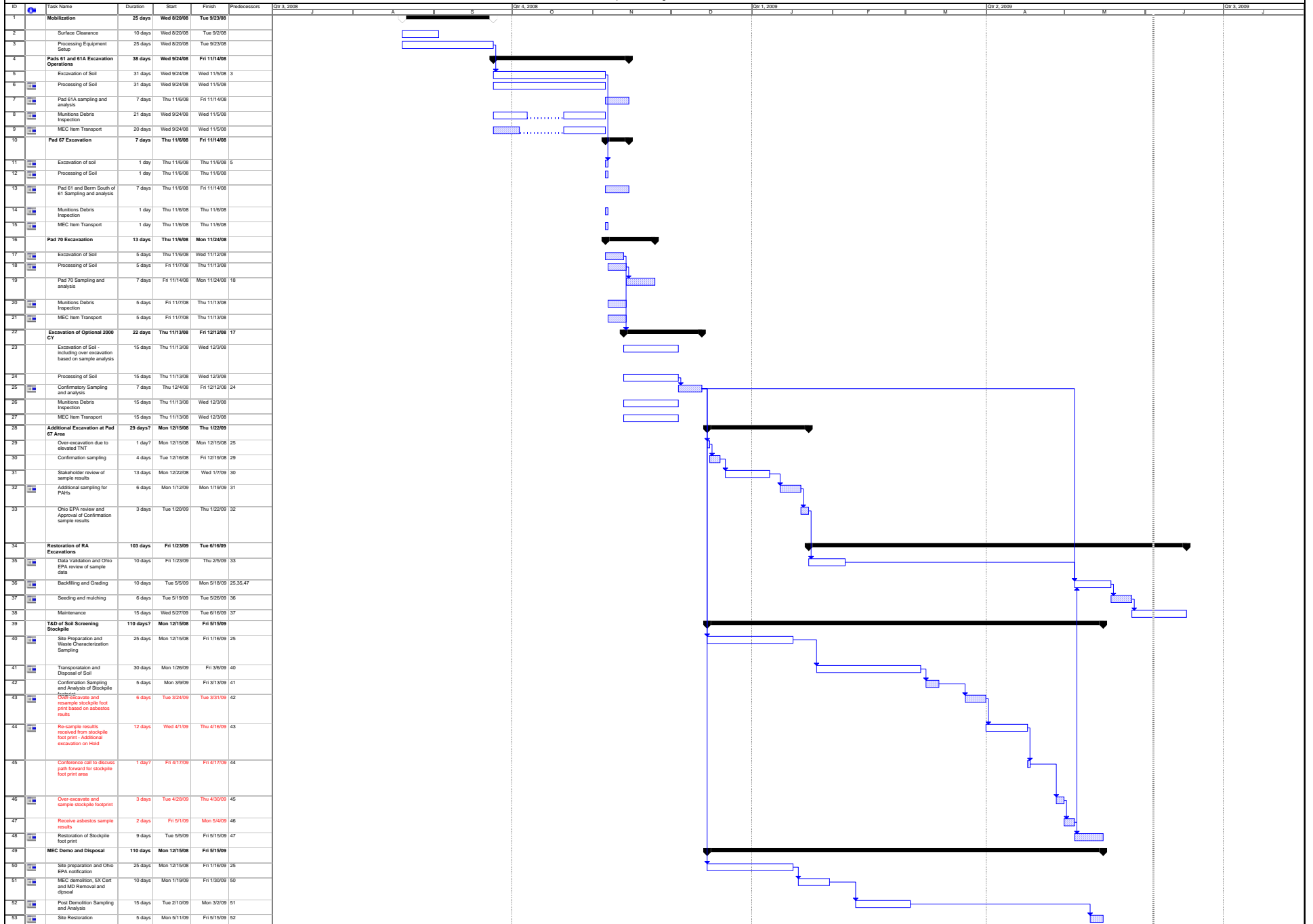
Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: USACE contacted PIKA on 21 April 09 with the understanding the stockpile footprint would be re-sampled along with the RA excavation sites. Over-excavation of the stockpile footprint was delayed until clarification of the matter was verified by the RVAAP facility Manager. 24 April 09 RVAAP Facility Manager verified that based on the 17 April teleconference the path forward as described in the Summary of Activities was indeed the agreed upon steps relative to re-sampling and over-excavation of the stockpile footprint. As such, the over-excavation and re-sampling of the stockpile footprint originally scheduled for 22 April 09 will be re-scheduled for next week.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Over-excavate and re-sample stockpile foot print. 			
Refer attached Schedule for percentage of work completed and projected completion dates.			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

W E E K L Y R E P O R T

Prime Contract No:	W912QR-04-D-0040		Report No.	34
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	04-27-09 to 05-01-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> 28 April 09 – Over-excavated stockpile footprint and re-sampled area for Asbestos. 28 April 09 – escorted shipment of one roll off of MD scrap to Belson Steel Center Scrap, Inc. in Bourbonnais, IL for smelting and recycling. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Preliminary Schedule Winklepeck Burning Grounds RA



Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	90%

Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: None this week.

Schedule for Next Week

- Receive asbestos results and plan accordingly for final site restoration operations.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



Pictures showing cross section of second over-excavation within stockpile foot print.



Picture showing over-excavated soil stockpile to be loaded out.



Loading out over-excavated soil from stockpile footprint.



Overview of sample grids established within stockpile footprint to facilitate the sampling operations.



Certified Asbestos Supervisor collecting MI soil sample from within northeast quadrant of stockpile footprint.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	35
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	05-05-09 to 05-08-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> 04 May 09 – Received asbestos sample results for stockpile foot print area. All results are non-detect. Mobilized equipment and material to initiate site restoration. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	100%

Backfilling and Final Grading	-	-
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: None this week.

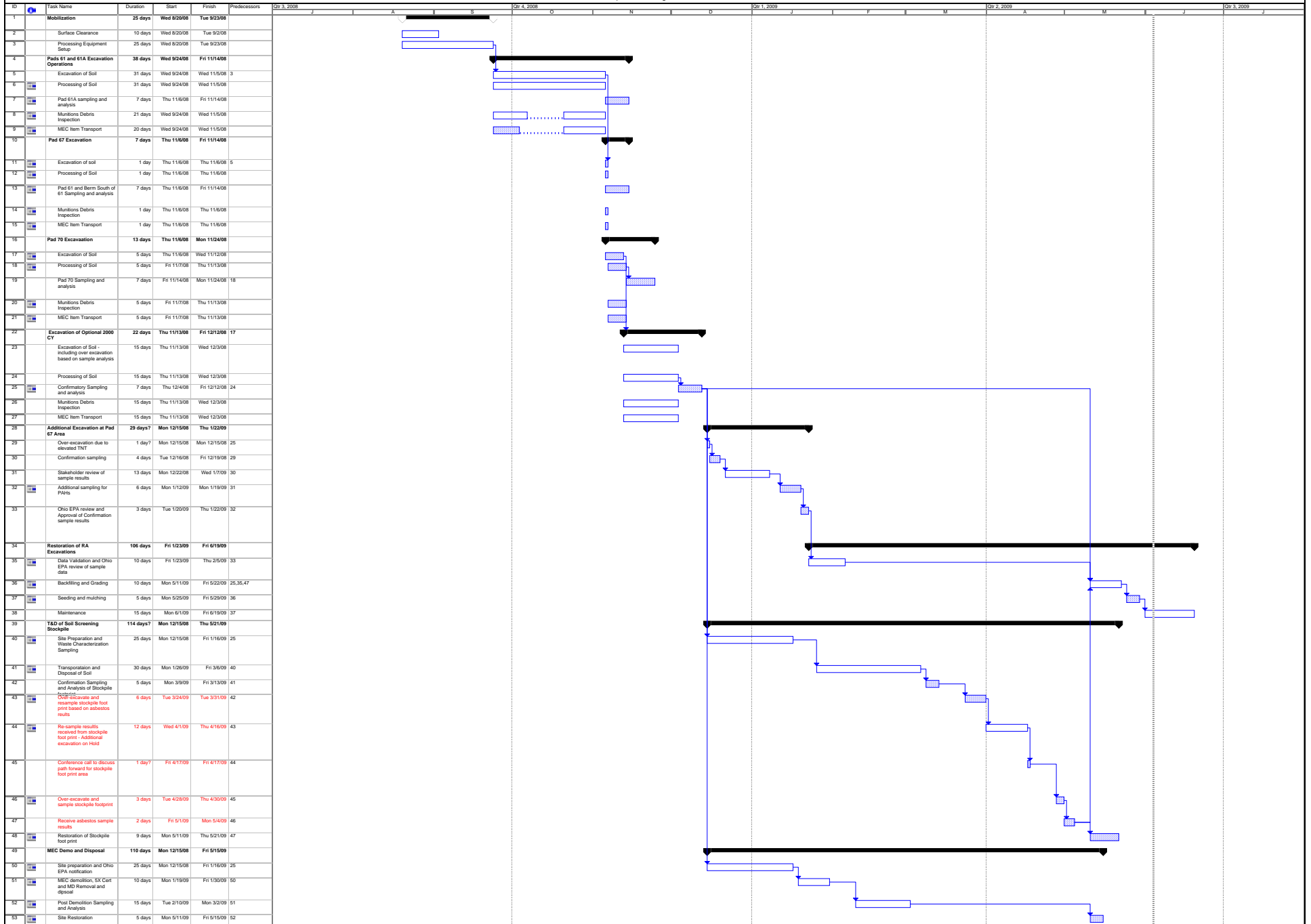
Schedule for Next Week

- Install backfill material for over-excavated area within Pad 61A and excavation at Pad 67.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

Preliminary Schedule
Winklepeck Burning Grounds RA



WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	36
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	05-11-09 to 05-15-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Install backfill material for over-excavated area within Pad 61A and excavation at Pad 67. Completed site restoration. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	100%

Backfilling and Final Grading	100%	100%
Final seeding and mulching	-	-

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: None this week.

Schedule for Next Week

- Complete final seeding and mulching.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



Berm area before restoration.



Picture is showing Pad 61A before backfill.



Picture is showing Pad 67 after installation of backfill material.



Picture is showing Pad 61 before restoration.



Installing back fill material for over excavated within Pad61A area.



Picture is showing Pad 61A after restoration.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	37
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	05-18-09 to 05-22-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Final seeding and mulching. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) OHARNG Range Supervisor inspected RA excavation areas and road repairs and indicated all looks good to him.</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	100%

Backfilling and Final Grading	-	100%
Final seeding and mulching	100%	100%

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable

Major Problems and Resolution: None this week.

Schedule for Next Week

- Coordinate final walk through with USACE, OHARNG and RVAAP Facility Manager.

Refer attached **Schedule** for percentage of work completed and projected completion dates.

Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



Pictures showing 61A area after final grading.



Picture is showing pad 61 after final grading.



Picture is showing pad 70 after final grading.



Picture is showing pad 67 after final grading.



Picture is showing berm area after final grading.



Seeding pad 67 area.



Seeding pad 61A area.



Berm area following final mulching operation.



Pad 70 area following final mulching operation.

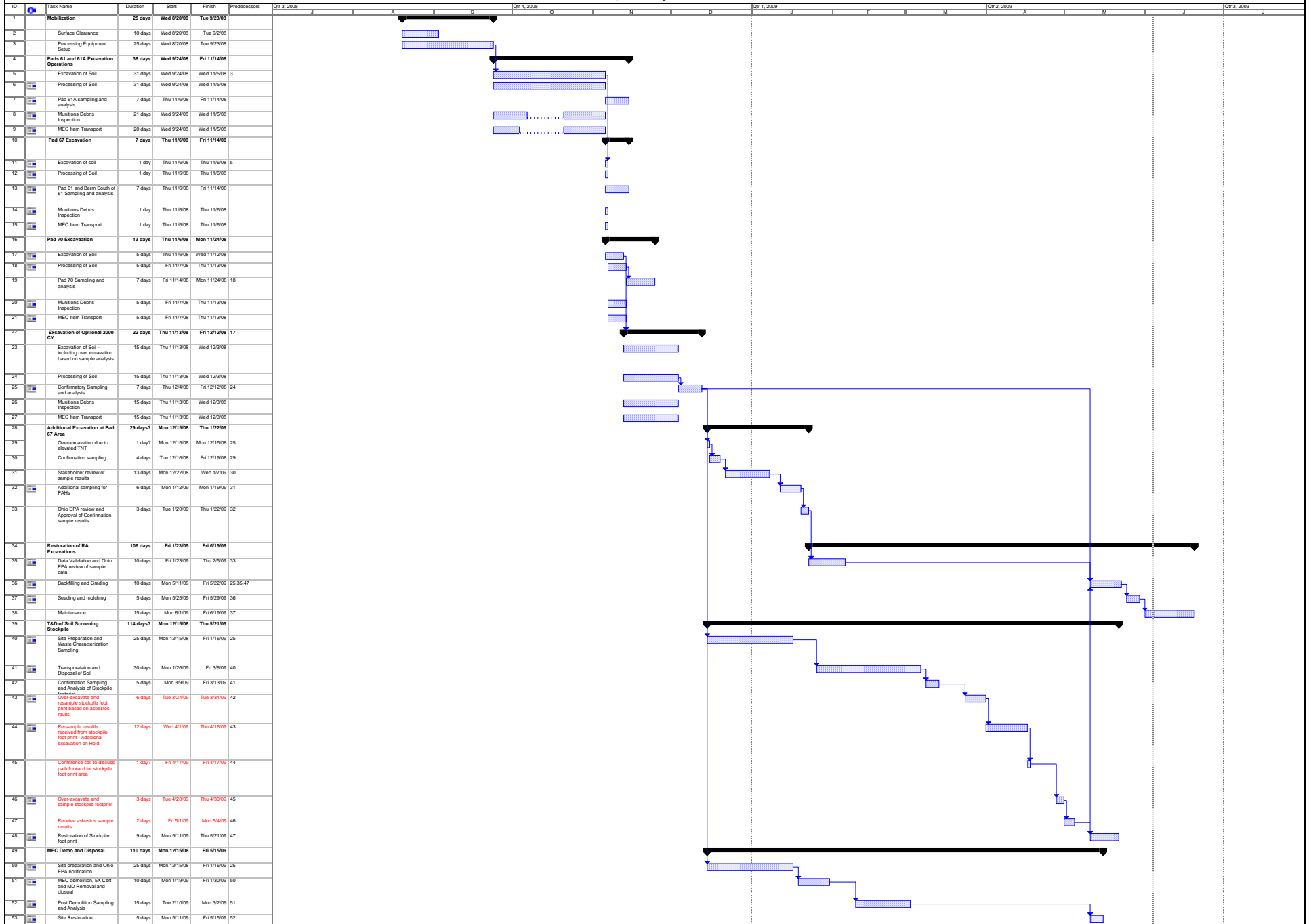


Pad 67 area following final mulching operation.



Stockpile area following final mulching operation.

Preliminary Schedule Winklepeck Burning Grounds RA



W E E K L Y R E P O R T

Prime Contract No:	W912QR-04-D-0040		Report No.	38
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	06-08-09 to 06-12-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Conducted follow-on cleanup of residual metal scrap items identified in the process area during the final walk-through with stakeholders on 8 June 2009. Cleanup performed using an excavator equipped with an electromagnet attachment. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%
MEC Demolition and Disposal	-	100%

Backfilling and Final Grading	-	100%
Final seeding and mulching	-	100%

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
Major Problems and Resolution: None this week.			
Schedule for Next Week			
Refer attached Schedule for percentage of work completed and projected completion dates.			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



Pictures showing cleanup within process area using electromagnet.



Picture showing non-MD scrap collected during final cleanup.

WEEKLY REPORT

Prime Contract No:	W912QR-04-D-0040		Report No.	39
PIKA Task Order #:	CSA-PIKA-110106/TO# 11		Date:	07-13-09 to 07-17-09
Project:	Winklepeck Burning Ground RD/RA			
<p>Summary of Activities</p> <ul style="list-style-type: none"> Conducted follow-on Final walk-through at the WBG RA Process Area with stakeholders on 16 July 2009. Stakeholder representatives included Mark Patterson – RVAAP FM, Katie Elgin – OHARNG, SFC Rex Hufenbach – OHARNG Range Supervisor, Lew Kovarik – PIKA SUXOS, and Brian Stockwell – PIKA Project Manager. Stakeholders concur that the site has been cleaned up and restored to their satisfaction. During a site visit on 14 July 2009 to the Rocket Ridge site, Mark Patterson – RVAAP FM visited the ODA 2 demolition area used during WBG MEC demolition operations and verified that the area has been sufficiently restored. 				
<p>Others:</p> <ul style="list-style-type: none"> Conducted daily safety briefings and site specific training. 				
<p>Remarks (include directions received from client's representative or regulators, visitors, compliance notices received, pertinent information) None</p>				

Work Completed:		
	This Week	Cumulative to-date
RD/RA Work Plan Preparation	-	100%
Mobilization and Set up of sift plant (start 25 August 2008 end 23 Sept 2008)	-	100%
Excavation at Pad 61/61A (start 23 Sept 2008, ended 10-27-08 to specified limits and 11-6-08 using remaining balance for berm)	-	100%
Confirmation Sampling - Pad 61A Excavation (11-3-08 for Asbestos portion & 11-6-08 for SVOCs and RDX)	-	100%
Follow-on excavation near Pad 67 - i.e., sample points WBG-071 and WBG-401 (started and completed 11-6-08)	-	100%
Confirmation Sampling - Pad 67 area Excavation (11-6-08)	-	100%
Excavation at Pad 70 (started 11-6-08 completed 11-11-08)	-	100%
Additional excavation options at berm south of Pad 61 (started 11-11-08 – completed 12-3-08)	-	100%
Confirmation Sampling - Pad 70 Excavation (asbestos collected 11-17-08). (Explosives and SVOCs collected 11-24-08)	-	100%
Confirmation Sampling - Pad 61 Excavation (asbestos collected 11-17-08) (Explosives and SVOCs collected 11-24-08).	-	100%
Confirmation Sampling –Berm area south of Pad 61 (initial asbestos collected 11-24-08 – follow-on collected 12-2-08) (Explosives and SVOCs collected 12-4-08)	-	100%
Over-excavation for Pad 67 area (i.e., sample points WBG-071 and WBG-401) Started 12-15-08 and completed 12-15-08	-	100%
Confirmation Sampling - Pad 67 area Over-excavation Excavation (12-15-08)	-	100%
T&D of Soil Screening stockpile (estimated 10,800 tons total)	-	100%

MEC Demolition and Disposal	-	100%
Backfilling and Final Grading	-	100%
Final seeding and mulching	-	100%

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of daily activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control			
Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Weekly Site Inspection	None	None	Not Applicable
<p>Major Problems and Resolution: None this week.</p>			
<p>Schedule for Next Week</p> <ul style="list-style-type: none"> Field work complete. <p>Refer attached Schedule for percentage of work completed and projected completion dates.</p>			
Asbestos Supervisor	Keith Bickel	Safety Officer	Mel Lau
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



Overview of gravel process area to date.



Overview soil stockpile staging area to date.

Company Name: MKM Engineers
Contract Number: W912QR-04-D-0040

July MONTHLY REPORT
Date: 4 August 08

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- ESS approval received from Hank Hubbard, USATCES & DDESB
- PMP Submitted
- RD/RA WP Submitted

HEALTH AND SAFETY PERFORMANCE:

- N/A

PROBLEMS ENCOUNTERED/RESOLUTION:

- N/A

PLANNED ACTIVITIES (for following month):

- Work Plan in process
- PMP in process

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
ESS Submission	March 27, 2008	March 27, 2008	Completed
PMP Submission	May, 2008	May, 2008	Final Submission- Waiting on ROD signature for Final Project Schedule Sub.
RD WP Submission	July 25, 2008	July 25, 2008	Completed

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- WP in process awaiting submittal of final ROD to complete.

INVESTIGATIVE DERIVED WASTE (IDW):

- N/A

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _____

PROJECT MANAGER:

SIGNATURE- Kathleen Anthony

Company Name: MKM Engineers
Contract Number: W912QR-04-D-0040

August Monthly Report
Date: 4 September 08

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Awaiting revised ESS approval letter from DDESB;
- RD/RA WP was finalized August 8, 2008;
- Prepared Schedule for field work and will submit PMP and remaining documents the week of 1 September 2008; and
- MKM began mobilization activities on 19 August after receipt of the signed ROD.

HEALTH AND SAFETY PERFORMANCE:

- N/A

PROBLEMS ENCOUNTERED/RESOLUTION:

- N/A

PLANNED ACTIVITIES (for following month):

- PMP in progress;
- SSHP, QASP in progress;
- Mobilization in progress; and
- Excavation is scheduled to begin at Pad 61/61A on 10 September.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
ESS Submission	March 27, 2008	March 27, 2008	Awaiting revised ESS approval letter from DDESB
PMP Submission	May, 2008	May, 2008	Will be submitted the week of 1 September 2008
RD WP Submission	July 25, 2008	July 25, 2008	Completed

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule will be submitted with the PMP.

INVESTIGATIVE DERIVED WASTE (IDW):

- N/A

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _____

PROJECT MANAGER: SIGNATURE- *For Anthony*

Company Name: MKM Engineers September Monthly Report
Contract Number: W912QR-04-D-0040 Date: 3 October 08

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Received ESS approval letter from DDESB on September 11;
- Completed Mobilization activities on September 23;
- Excavation at Pad 61/61A began on September 23;
- Sifting operations started on September 23; and
- Received Ohio EPA approval of the PMP and SSHP on September 30.

HEALTH AND SAFETY PERFORMANCE:

- There were 2190 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- Site operations shut down on 10 Sept 2008 to allow for previously unplanned MK 19 Range firing exercise by OHARNG.
- Heavy rains hindered site activities during 12 Sept and 13 September.
- Power outage 15 Sept from windstorm.
- Roller for belt on ferrous magnet broke 29 Sept and replaced 30 September 2008.

PLANNED ACTIVITIES (for following month):

- Excavation and sifting activities at Pad 61/61A in progress;
- Finalize CQP and QAPP/SAP; and
- Revise ESS Amendment to include MK2 hand grenade.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Completed
Excavation Pad 61/61A	October 27, 2008	In Progress	In Progress
Excavation Pad 61/61A	November 13, 2008	In Progress	In Progress

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.


INVESTIGATIVE DERIVED WASTE (IDW):

- N/A

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- Brian Stockwell

PROJECT MANAGER: SIGNATURE- 

Winklepeck Burning Grounds

Gate Control Log

Month: Sep 08

[illegible]

Company Name: MKM Engineers October Monthly Report
Contract Number: W912QR-04-D-0040 Date: 5 November 08

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Excavation and sifting activities continued on Pads 61/61A;
- The ESS Revision 3, Amendment 3 was submitted to USATCES on October 16;
- Received USACE comments on the CQP on October 19;
- USATCES approved the ESS Revision 3, Amendment 3 on October 20;
- The ESS was forwarded to DDESB on October 20;
- Received final approval from Ohio EPA of the QAPP/SAP on October 30;
- Completed excavation of Pad 61, 61A, and cut in berm south of Pad 61 to specified limits; including excavation of sample point WBG-217.
- Began extending excavation into berm south of Pad 61 using remaining excavation volumes from Pad 61 and 61A.

HEALTH AND SAFETY PERFORMANCE:

- There were 4031 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- An MK II hand grenade was discovered at the sift plant on October 1 and a revision to the ESS Amendment was submitted to USATCES on. USATCES indicated that excavation and sifting could proceed as long as all applicable safety measures were implemented for the MK II grenade applicable to shielding, MSD arc and K40 distance.
- The MD scrap removed from the conveyor line was too degraded to recycle. The scrap will be sampled and included with the soil pile for disposal. This change was documented in the ESS Amendment and a variance letter to USACE and Ohio EPA.
- The main bearing in the trommel screen and the main pin for the long boom failed on October 8 and were replaced the following day. Field activities resumed on October 13.
- The control panel for the shaker pan malfunctioned on October 16. Sifting operations resumed October 21.
- After completing excavation at Pad 61A, an area in the NW corner still had MD and stained soils. The stained soil and MD were excavated.
- Because of the shape of the final excavation at Pad 61A, there were no defined sidewalls to sample. Therefore, 2 MI floor samples will be collected in place of the one floor and one sidewall MI sample described in the WP. Ohio EPA and USACE approved this change and it will be documented in the completion report.

PLANNED ACTIVITIES (for following month):

- Complete extension of excavation limits in berm south of Pad 61 using remaining soil volumes from Pad 61/61A area;
- Either exercise additional excavation options at berm south of Pad 61 or, begin excavation operations at Pads 67 and 70,
- Collect confirmation samples at Pad 61, 61A 67 and 70;
- Awaiting final Approval of ESS Revision 3, Amendment 3 and the CQP.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Completed
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	100% Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos)		In progress
	November 6, 2008 (RDX and SVOCs)		
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008		In progress
Exercise Additional Excavation options at Berm south of Pad 61; or Excavate Pad 67 and 70	November 25, 2008.		
Collect confirmation samples at Pad 67	November 18, 2008		
Collect confirmation samples at Pad 70	November 25, 2008		

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.

INVESTIGATIVE DERIVED WASTE (IDW):

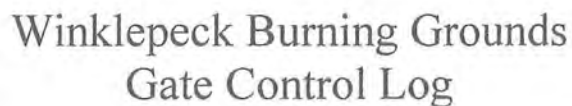
- N/A

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE- __

[illegible]

Company Name: MKM Engineers

November Monthly Report

Contract Number: W912QR-04-D-0040

Date: 5 November 08

Contractor: MKM Engineers

Location: Ravenna Army Ammunition Plant, Ravenna, OH

Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Completed initial excavations of Pads 61/61A (4,534 cy), Pad 70 (800 cy), Pad 67 (20 CY excavated and 20 CY removed from previous stockpile), and the berm area south of Pad 61 (1,700 cy);
- Sifting of the soil from the initial excavations is 95% complete;
- Collected confirmation samples for asbestos and SVOCs/RDX from Pads 61/61A, and Pad 67 November 3 and November 6, respectively;
- Received confirmation sample results for Pads 61/61A and 67. No contaminants were detected at concentrations greater than RGs at Pads 61/61A;
- RDX was detected below WBG cleanup goals from excavation near Pad 67; however TNT was detected in the confirmation samples collected from excavation near Pad 67. USACE and Ohio EPA were notified and a decision regarding further action will be made when final results are received and evaluated;
- Received final approval of the CQP from USACE on November 17;
- Received final approval of the CQP from USACE on November 17;
- Collected confirmation samples from Pads 61 and 70 for asbestos on November 17;
- Collected confirmation samples from Pads 61 and 70 for SVOCs and Explosives November 24;
- Collected confirmation samples from berm area south of Pad 61 November 24;
- Asbestos was detected in the confirmation sample collected from the berm area south of Pad 61. An additional 6-inches of soil will be excavated from the berm area and another asbestos confirmation sample will be collected: and
- Received DDESB approval of ESS Revision 3 Amendment 3 on November 24.

HEALTH AND SAFETY PERFORMANCE:

- There were 5801 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- TNT was detected in the confirmation samples collected from excavation near Pad 67. USACE and Ohio EPA were notified and a decision regarding further action will be made when final results are received and evaluated.
- The Work Plan originally called for over-excavating sample point WBG-217 from the berm area and collecting one Multi-increment (MI) sidewall and one MI floor sample from the resultant excavation. However, there were no sidewalls present when the excavation was complete. After consulting with Ohio EPA and reviewing the layout of the completed berm excavation at Pad 61, one MI soil sample was collected across the surface of the berm excavation area (which also includes sample point WBG-217 area) to determine if COCs were removed.
- Because of the possibility that additional excavation may be required based on the results of the confirmation sampling, a proposal for an additional option for the removal of 2,96 tons of soil was submitted to USACE on November 24.

PLANNED ACTIVITIES (for following month):

- Complete the over excavation of the berm south of Pad 61;
- Re-collect confirmation samples for asbestos at form the berm excavation south of Pad 61 and follow-on SVOCs and Explosives when asbestos is non-detect;
- Await final confirmation sampling results for the berm excavation south of Pad 61 and Pads 61 and 70.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008		In progress
Site restoration/Backfilling	December 26, 2008		Not started – actual start and finish contingent on confirmation sampling results
T&D of stockpiled soil	January 23, 2009		Not started – actual start and finish contingent on confirmation sampling results
MEC Demolition and Disposal	January 26, 2009		Not started – actual start and finish contingent on confirmation sampling results

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Confirmation samples at berm area indicate asbestos is present. As such, additional excavation and sampling required for this area as noted above.

INVESTIGATIVE DERIVED WASTE (IDW):

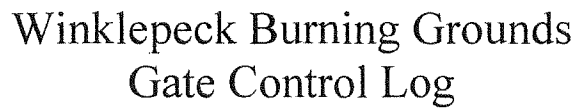
- N/A

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE- __



Month: Nov 08

[illegible]

Company Name: MKM Engineers

December Monthly Report

Contract Number: W912QR-04-D-0040

Date: 5 January 09

Contractor: MKM Engineers

Location: Ravenna Army Ammunition Plant, Ravenna, OH

Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Completed over-excavation of berm area (300 CY) south of Pad 61 (6-inch lift) on December 3.
- Soil sifting operations were completed on December 5.
- Re-collected asbestos sample from berm excavation on December 2. No asbestos detected.
- Collected SVOC and explosives sample from berm excavation area on December 4.
- Initiated road repair at areas identified by OHARNG on December 8.
- Completed inspection of recovered non-ferrous MD on December 10.
- Began dismantling sift plant following receipt of confirmation sample results (from berm over-excavation area) on December 10.
- Plant disassembly completed December 22.
- Completed over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) on December 15 (50 CY of additional soil removed).
- Collected confirmation samples from Pad 67 over-excavation on December 15.
- Received Preliminary confirmation sampling results for the Pad 67 over-excavation on December 19.
- Results forwarded to USACE on December 22.

HEALTH AND SAFETY PERFORMANCE:

- There were 7021 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- Low concentrations of TNT, RDX, HMX and other explosives were detected in the confirmation samples collected from excavation near Pad 67. USACE and Ohio EPA were notified and a decision regarding further action will be made when final results are received and evaluated.
-

PLANNED ACTIVITIES (for following month):

- Demobilize sift plant from Winklepeck.
- T&D of stockpiled soil;
- Backfill Pad 61A and Pad 67 areas as per SOW requirements;
- MEC Demolition and Disposal.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos)	November 3, 2008 (asbestos) November 6, 2008 (RDX and	Complete

	November 6, 2008 (RDX and SVOCs)	SVOCs)	
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over-excavate and resample Pad 67 area	December 15, 2008	December 15, 2008	Complete
Receive analytical results for Pad 67 over-excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation sample results	Date to be determined		In progress – Results forwarded for review on December 22, 2008
Site restoration/Backfilling	December 26, 2008		Not started – actual start and finish contingent on review of Pad 67 confirmation sampling results
T&D of stockpiled soil	January 23, 2009		Not started – actual start and finish contingent on confirmation sampling results
MEC Demolition and Disposal	January 26, 2009		Not started – actual start and finish contingent on review of Pad 67 confirmation sampling results

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the over-excavation were forwarded to USACE for review and will be forwarded to Ohio EPA in January to determine whether the excavation at Pad 67 is complete.

INVESTIGATIVE DERIVED WASTE (IDW):

- N/A

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- Brian Stockwell

PROJECT MANAGER: SIGNATURE- 

[illegible]

Company Name: MKM Engineers January 2009 Monthly Report
Contract Number: W912QR-04-D-0040 Date: 5 February 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Completed demobilization of the sift plant the week of January 19.
- Re-collected floor and sidewall samples from Pad 67 area excavation on January 12 for PAH analysis per Ohio EPA requirement. PAHs were not detected at concentrations greater than remediation goals.
- Completed MEC demolition operations.
- Ohio EPA gave approval to backfill Pad 67 on January 22.
- Began load-out of stockpiled soil on January 27.

HEALTH AND SAFETY PERFORMANCE:

- There were 7791 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- None

PLANNED ACTIVITIES (for following month):

- T&D of stockpiled soil; and
- Collect post MEC demolition MI soil samples.
- Site restoration/Backfilling as weather permits.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	5-1-09		Not started – actual start and finish contingent on weather and site conditions
T&D of stockpiled soil	February 27, 2009		In Progress
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.

- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.

INVESTIGATIVE DERIVED WASTE (IDW):

- Removed 500 tons of stockpiled soil.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE- __

Company Name: MKM Engineers
Contract Number: W912QR-04-D-0040

February 2009 Monthly Report
Date: 5 March 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Continued load-out of stockpiled soil.
- Collected post demolition MI soil samples.

HEALTH AND SAFETY PERFORMANCE:

- There were 9,150 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- None

PLANNED ACTIVITIES (for following month):

- Initiate backfilling and final site restoration and road repair as weather and site conditions allow.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	5-1-09		Not started – actual start and finish contingent on weather and site conditions
T&D of stockpiled soil	March 6, 2009		In Progress
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.

- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.
- Heavy snows and poor road conditions delayed start of the load out operations for the soil stockpile.


INVESTIGATIVE DERIVED WASTE (IDW):

- Removed 5600 tons of stockpiled soil.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE- __

Company Name: MKM Engineers
Contract Number: W912QR-04-D-0040

March 2009 Monthly Report
Date: 6 April 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Completed load-out of stockpiled soil 6 March 09.
- Collected post load out MI soil samples from stockpile footprint.
- 18 March 09, asbestos sample results for stockpile footprint indicate asbestos present at trace amounts.
- 24 March 09, over-excavated stockpile footprint area (6-inches) and re-sampled for asbestos.

HEALTH AND SAFETY PERFORMANCE:

- There were 9730 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- None

PLANNED ACTIVITIES (for following month):

- Receive re-sample results from stockpile footprint area.
- Initiate backfilling and final site restoration and road repair as weather and site conditions allow.
- Conduct final site surveys.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	5-1-09		Not started – actual start and finish contingent on weather and site conditions
T&D of stockpiled soil	March 6, 2009	March 6, 2009	Complete
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.

- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.
- Heavy snows and poor road conditions delayed start of the load out operations for the soil stockpile.
- Asbestos sample for stockpile footprint area indicated trace amounts are present. Area over-excavated and re-sampled as per Work Plan.

INVESTIGATIVE DERIVED WASTE (IDW):

- Removed 7300 tons of stockpiled soil to date.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- Brian Stockwell

PROJECT MANAGER: SIGNATURE- 

Company Name: MKM Engineers April 2009 Monthly Report
Contract Number: W912QR-04-D-0040 Date: 4 May 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- 1 April 09 received re-sample results for asbestos from Stockpile footprint – Trace asbestos still present.
- 2 April 09 RVAAP Facility Manager requests regulatory review to verify if additional over – excavation is required for asbestos at <1% with trace amounts.
- 17 April 09 teleconference with USACE, RVAAP Facility Manager and PIKA to determine path forward at WBG stockpile and RA excavations:
 1. re-sample the RA excavation sites and analyze using the new lab capable of reporting ND as applicable;
 2. over-excavate the stockpile footprint area and re-sample using the new lab; and
 3. Hold another teleconference to discuss sample results and any new information USACE has relative to regulatory findings.
- 20 April 09 re-collected asbestos samples from RA excavation areas.
- 24 April 09 received confirmation from RVAAP Facility to over-excavate and re-sample stockpile area questions raised relative to agreed upon path forward.
- 28 April 09 over-excavated stockpile footprint area (6-inches) and re-sampled for asbestos.

HEALTH AND SAFETY PERFORMANCE:

- There were 9770 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- None

PLANNED ACTIVITIES (for following month):

- Receive re-sample results from stockpile footprint area.
- Initiate backfilling and final site restoration and road repair as weather and site conditions allow.
- Conduct final site surveys.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):			
Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	25 May 09		Not started – actual start and finish contingent on weather and site conditions and stockpile sample results
T&D of stockpiled soil	March 6, 2009	March 6, 2009	Complete
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete
Confirmation sampling and analysis	13 March 09	13 March 09	Complete

of stockpile footprint			
ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):			
Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Over-excavate and resample stockpile footprint based on trace asbestos results	31 March 09	31 March 09	Complete
Receive stockpile foot print Re-sample results for asbestos	1 April 09	1 April 09	Complete
Conference call to discuss path forward for stockpile footprint base on asbestos results	17 April 09	17 April 09	Complete
Re-collect asbestos sample at RA excavation to verify ND using new lab	20 April 09	20 April 09	Complete
Conduct round 2 of over-excavation and sampling of stockpile footprint	30 April 09	30 April 09	Complete
Receive asbestos results from 2 nd round of over-excavation at stockpile footprint	4 May 09		In Progress

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.
- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.
- Heavy snows and poor road conditions delayed start of the load out operations for the soil stockpile.
- Asbestos sample for stockpile footprint area indicated trace amounts are present. Area over-excavated and re-sampled as per Work Plan.
- 28 April 09 2nd over-excavation conducted at stockpile footprint following after concurrence from RVAAP Facility Manager and USACE.

INVESTIGATIVE DERIVED WASTE (IDW):

- Removed 7450 tons of stockpiled soil to date.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE-  _

Company Name: MKM Engineers May 2009 Monthly Report
Contract Number: W912QR-04-D-0040 Date: 4 June 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- 12 May 2009 initiated final surveying and backfilling and final grading at the RA excavations sites and stockpile area and road repairs within areas identified by the OHARNG Range Supervisor.
- 21 May 09 completed all surveying, road repairs, backfilling, regarding, seeding and mulching operations.
- Tentatively scheduled final walk with USACE, OHARNG and RVAAP FM for 9 June 2009.

HEALTH AND SAFETY PERFORMANCE:

- There were 9920 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- None

PLANNED ACTIVITIES (for following month):

- Conduct Final walk through with USACE, OHARNG and RVAAP FM.
- Submit preliminary Draft Completion Report.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs)	Complete

		and Explosives)	
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	25 May 09		Not started – actual start and finish contingent on weather and site conditions and stockpile sample results
T&D of stockpiled soil	March 6, 2009	March 6, 2009	Complete
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete
Confirmation sampling and analysis of stockpile footprint	13 March 09	13 March 09	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Over-excavate and resample stockpile footprint based on trace asbestos results	31 March 09	31 March 09	Complete
Receive stockpile foot print Re-sample results for asbestos	1 April 09	1 April 09	Complete
Conference call to discuss path forward for stockpile footprint base	17 April 09	17 April 09	Complete

on asbestos results			
Re-collect asbestos sample at RA excavation to verify ND using new lab	20 April 09	20 April 09	Complete
Conduct round 2 of over-excavation and sampling of stockpile footprint	30 April 09	30 April 09	Complete
Receive asbestos results from 2 nd round of over-excavation at stockpile footprint	4 May 09	4 May 09	Complete
Final Site Restoration Activities	29 May 09	21 May 09	Complete
Final site walk through with Stakeholders	8 June 09		

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.
- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.
- Heavy snows and poor road conditions delayed start of the load out operations for the soil stockpile.
- Asbestos sample for stockpile footprint area indicated trace amounts are present. Area over-excavated and re-sampled as per Work Plan.
- 28 April 09 2nd over-excavation conducted at stockpile footprint following after concurrence from RVAAP Facility Manager and USACE.
- 18 May 2009 – Final elevation at Pad 70 is surveyed at 1 to 3 feet below SOW estimated target elevation of 999'. OHARNG Range supervisor indicates the current elevation is sufficient as it matches surrounding road elevations and will work out good for future range construction activities in this area. Per request of Range Supervisor, one load of backfill was added to the Pad 70 area to ensure positive drainage to the south.

INVESTIGATIVE DERIVED WASTE (IDW):

- None this month.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE-  _

Company Name: MKM Engineers June 2009 Monthly Report
Contract Number: W912QR-04-D-0040 Date: 6 July 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Conducted final walk with USACE, OHARNG and RVAAP FM on 8 June 2009.
- Preliminary Draft Report (submitted 29 May 09) in review.

HEALTH AND SAFETY PERFORMANCE:

- There were 9960 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- Some scrap metal items noted within the process area during the final walk.
- 11 June 09 - Process area swept with an electromagnet to remove remaining scrap metal items in the process area.

PLANNED ACTIVITIES (for following month):

- Conduct follow-on walk through with USACE, OHARNG and RVAAP FM at process area.
- Conduct response to comments for Pre-draft Completion Report.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad 70	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete

Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	25 May 09		Not started – actual start and finish contingent on weather and site conditions and stockpile sample results
T&D of stockpiled soil	March 6, 2009	March 6, 2009	Complete
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete
Confirmation sampling and analysis of stockpile footprint	13 March 09	13 March 09	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Over-excavate and resample stockpile footprint based on trace asbestos results	31 March 09	31 March 09	Complete
Receive stockpile foot print Re-sample results for asbestos	1 April 09	1 April 09	Complete
Conference call to discuss path forward for stockpile footprint base on asbestos results	17 April 09	17 April 09	Complete

Re-collect asbestos sample at RA excavation to verify ND using new lab	20 April 09	20 April 09	Complete
Conduct round 2 of over-excavation and sampling of stockpile footprint	30 April 09	30 April 09	Complete
Receive asbestos results from 2 nd round of over-excavation at stockpile footprint	4 May 09	4 May 09	Complete
Final Site Restoration Activities	29 May 09	21 May 09	Complete
Final site walk through with Stakeholders	8 June 09	8 June 09	Complete
Follow-on walk through for process area	Tentatively 15 July 09		

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.
- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.
- Heavy snows and poor road conditions delayed start of the load out operations for the soil stockpile.
- Asbestos sample for stockpile footprint area indicated trace amounts are present. Area over-excavated and re-sampled as per Work Plan.
- 28 April 09 2nd over-excavation conducted at stockpile footprint following after concurrence from RVAAP Facility Manager and USACE.
- 18 May 2009 – Final elevation at Pad 70 is surveyed at 1 to 3 feet below SOW estimated target elevation of 999'. OHARNG Range supervisor indicates the current elevation is sufficient as it matches surrounding road elevations and will work out good for future range construction activities in this area. Per request of Range Supervisor, one load of backfill was added to the Pad 70 area to ensure positive drainage to the south.
- Some scrap metal items noted within the process area during the final walk on 8 June 09.
- 11 June 09 - Process area swept with an electromagnet to remove remaining scrap metal items in the process area.

INVESTIGATIVE DERIVED WASTE (IDW):

- None this month.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- _Brian Stockwell_

PROJECT MANAGER: SIGNATURE-  _

Company Name: MKM Engineers
Contract Number: W912QR-04-D-0040

July 2009 Monthly Report
Date: 5 August 09

Contractor: MKM Engineers
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: RVAAP WPBG RD/RA

SUMMARY OF ACTIVITIES:

- Conducted follow-on final walk at the WBG process area with OHARNG and RVAAP FM on 16 July 2009.
- All parties concur that the site cleanup and restoration are complete. RVAAP Facility Manager also informed PIKA that the ODA2 demolition area that was used for demolition of the recovered WBG RA MEC items was also inspected and indicated restoration of the area is complete.
- Received USACE Comments on Pre-Draft Completion Report.

HEALTH AND SAFETY PERFORMANCE:

- There were 9960 hours worked without an OSHA recordable or lost time incident since construction activities began.

PROBLEMS ENCOUNTERED/RESOLUTION:

- None.

PLANNED ACTIVITIES (for following month):

- Submit Pre-Draft Completion Report response to comments and initiate completion of Draft Report document.

ACTIVITY AND PROGRESS COMPLETION TABLES:

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Mobilization	September 9, 2008	September 23, 2008	Complete
Excavation of Pad 61/61A to specified limits	October 27, 2008	October 27, 2008	Complete
Collect confirmation samples at Pad 61A	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	November 3, 2008 (asbestos) November 6, 2008 (RDX and SVOCs)	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Extend excavation limits at berm south of Pad 61 using remaining soil volumes from Pad 61/61A area	November 6, 2008	November 6, 2008	Complete
Excavate Pad 67	November 25, 2008.	November 6, 2008	Complete
Collect confirmation samples at Pad 67	November 6, 2008	November 6, 2008	Complete
Collect confirmation samples at Pad	November 14, 2008	November 17, 2008 (asbestos)	Complete

70		November 24, 2008 (SVOCs and Explosives)	
Collect confirmation samples at Pad 61	November 14, 2008	November 17, 2008 (asbestos) November 24, 2008 (SVOCs and Explosives)	Complete
Exercise Additional Excavation options at Berm south of Pad 61;	November 26, 2008	November 24, 2008	Complete
Collect confirmation samples at Berm south of Pad 61	December 1, 2008	November 25, 2008 (asbestos) SVOCs and Explosives not collected due to presence of Asbestos	Complete
Over-excavate Berm south of Pad 61 due to presence of asbestos	December 3, 2008	December 3, 2008	Complete
Re-collect and analyze confirmation samples at Berm south of Pad 61	December 11, 2008	December 10, 2008	Complete
Over excavate and resample Pad 67 Area	December 15, 2008	December 15, 2008	Complete
Received analytical for Pad 67 over excavation	December 22, 2008	December 22, 2008	Complete
USACE and Ohio EPA review of Pad 67 over-excavation confirmation samples	January 7, 2009	January 7, 2009	Complete
Resample Pad 67 Area for PAH analysis	January 12, 2009	January 12, 2009	Complete
Receive Pad 67 PAH analytical	19 January, 2009	January 19, 2009	Complete
Ohio EPA review and concurrence for Pad 67 PAH analysis	January 22, 2009	January 22, 2009	Complete
Site restoration/Backfilling	25 May 09	21 May 09	Complete
T&D of stockpiled soil	March 6, 2009	March 6, 2009	Complete
MEC Demolition and Disposal	January 26, 2009	January 23, 2009	Complete
Confirmation sampling and analysis of stockpile footprint	13 March 09	13 March 09	Complete

ACTIVITY AND PROGRESS COMPLETION TABLES (Continued):

Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status
Over-excavate and resample stockpile footprint based on trace asbestos results	31 March 09	31 March 09	Complete
Receive stockpile foot print Re-sample results for asbestos	1 April 09	1 April 09	Complete
Conference call to discuss path forward for stockpile footprint base on asbestos results	17 April 09	17 April 09	Complete
Re-collect asbestos sample at RA excavation to verify ND using new lab	20 April 09	20 April 09	Complete

Conduct round 2 of over-excavation and sampling of stockpile footprint	30 April 09	30 April 09	Complete
Receive asbestos results from 2 nd round of over-excavation at stockpile footprint	4 May 09	4 May 09	Complete
Final Site Restoration Activities	29 May 09	21 May 09	Complete
Final site walk through with Stakeholders	8 June 09	8 June 09	Complete
Follow-on walk through for process area	Tentatively 15 July 09	16 July 09	Complete
Submit response to comment for Pre-draft completion report	24 August 09		In Progress
Revise Completion Report and Submit Draft iteration to all Stakeholders	11 Sept 09		
Ohio EPA Review of Draft Report	28 Oct 09		
Comment Resolution	11 Nov 09		
Revise and submit Final Completion Report to Ohio EPA	9 Dec 09		

CHANGES IN KEY PERSONNEL:

- None

DEVIATION IN SCHEDULE (with explanation):

- Project schedule was extended two weeks to accommodate the signing of the ROD and receipt of the ESS approval letter from DDESB.
- Since TNT was detected in confirmation sampling results and cleanup goals were not included in the ROD, over-excavation at Pad 67 area (i.e., excavation at sample points WBG-071 and WBG-401) was conducted on December 15 (50 CY of additional soil removed)..The results from the overexcavation were forwarded to USACE December 22, 2008.
- On January 7, Ohio EPA indicated that an additional floor and sidewall sample will be required from Pad 67 area for PAH analysis and that if the PAH results are below WBG cleanup goals the excavation can be backfilled; including Pad 61/61A, the berm area south of Pad 61, and Pad 70, as needed.
- January 22, 2009 Ohio EPA indicates that PAH results are below WBG cleanup goals at Pad 67 and all excavations sites can be backfilled for site restoration, as needed. Backfilling and site restoration will commence as weather and site conditions allow.
- Heavy snows and poor road conditions delayed start of the load out operations for the soil stockpile.
- Asbestos sample for stockpile footprint area indicated trace amounts are present. Area over-excavated and re-sampled as per Work Plan.
- 28 April 09 2nd over-excavation conducted at stockpile footprint following after concurrence from RVAAP Facility Manager and USACE.
- 18 May 2009 – Final elevation at Pad 70 is surveyed at 1 to 3 feet below SOW estimated target elevation of 999'. OHARNG Range supervisor indicates the current elevation is sufficient as it matches surrounding road elevations and will work out good for future range construction activities in this area. Per request of Range Supervisor, one load of backfill was added to the Pad 70 area to ensure positive drainage to the south.
- Some scrap metal items noted within the process area during the final walk on 8 June 09.

- 11 June 09 - Process area swept with an electromagnet to remove remaining scrap metal items in the process area.
- 16 July 09 – Conducted follow-on walk through of process area with OHARNG and RVAAP Facility Manager. All parties concur that the site cleanup and restoration are complete. RVAAP Facility Manager also informed PIKA that the ODA2 demolition area that was used for demolition of the recovered WBG RA MEC items was also inspected and indicated restoration of the area is complete.

INVESTIGATIVE DERIVED WASTE (IDW):

- None this month.

REMARKS:

- N/A

PROJECT REPRESENTATIVE: SIGNATURE- Brian Stockwell

PROJECT MANAGER: SIGNATURE- 



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix D

Construction Storm Water Permit



State of Ohio Environmental Protection Agency

ROPA/WEG

STREET ADDRESS:

Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184
www.epa.state.oh.us

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

PIKA INTERNATIONAL INC

3/17/2008

BRIAN STOCKWELL

8451 SR 5

RAVENNA OH 44266

RE: Approval for coverage under Ohio EPA General Perm OHC000002

STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY.

Dear Applicant:

The Ohio Environmental Protection Agency has received a Notice of Intent (NOI) for coverage under the above referenced general permit for:

Facility Name: RAVENNA ARMY AMMUNITION PLANT

Facility Street / Location: 8451 SR 5

County: Portage

City(ies) and Township(s): RAVENNA ; PARIS, WINDHAM

Ohio EPA Facility Permit Number: 3GC03784*AG

This site/facility is approved for coverage under the above referenced Ohio EPA construction general permit (CGP). Please use your Ohio EPA facility permit number in all future correspondences. Please familiarize yourself with your permit. The permit contains requirements and prohibitions with which you must comply. Coverage remains in effect until a renewal general permit is issued and Ohio EPA has contacted you in writing instructing you to request continuing permit coverage.

Be aware that if more than one operator, as defined in the permit, will be engaged at a site, each operator shall seek coverage under the general permit. One operator shall submit an NOI and the additional operator(s) shall submit a Co-permittee NOI. Co-Permittees are covered under the same facility permit number. There is no fee associated with the Co-permittee NOI form.

You may obtain additional information, copies of general permits and current forms/instructions from our web site at: <http://www.epa.state.oh.us/dsw/storm/stormform.html>

If you have any further questions, you should contact one of the following:

OHC000002 (Statewide CGP)

Mike Joseph (614) 752-0782 michael.joseph@epa.state.oh.us

OHCD00001 (Big Darby CGP)

Jason Fyffe (614) 728-1793 jason.fyffe@epa.state.oh.us

Or by calling (614) 644-2001 and asking to speak with a member of the Storm Water Unit

Sincerely,

Laura H Powell
Assistant Director

CC: D BOGOEVSKI

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



Notice of Intent (NOI) For Coverage Under Ohio Environmental Protection Agency General Permit

(Read accompanying instructions carefully before completing this form)

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized to discharge into state surface waters under Ohio EPA's NPDES general permit program. Becoming a permittee obligates a discharger to comply with the terms and conditions of the permit. Complete all required information as indicated by the instructions. Forms transmitted by fax will not be accepted. A check for the proper amount must accompany this form and be made payable to "Treasurer, State of Ohio." (See the fee table in Attachment D of the NOI instructions for the appropriate processing fee)

I. Applicant Information/Mailing Address

Company (Applicant) Name: PIKA International, Inc.

Mailing (Applicant) Address: 8451 State Route 5

City: Ravenna

State: Ohio

Zip Code: 44266

Contact Person: Brian Stockwell

Phone: (330) 358-7135

Fax: (330) 358-2216

Contact E-Mail Address: bstockwell@pikainc.com

II. Facility/Site Location Information

Facility Name: Ravenna Army Ammunition Plant

RDRA/WAG

Facility Address/Location: 8451 State Route 5

City: Ravenna

State: Ohio

Zip Code: 44266

County(ies): Portage

Township(s): Paris, Winndham

Facility Contact Person: Mark Patterson

Phone: (330) 358-7312

Fax: (330) 358-7314

Facility Contact E-Mail Address: mark.c.patterson@us.army.mil

Quarter: _____

Section(s): _____

Range: _____

Receiving Stream or MS4: Sand Creek to Mahoning River

If aware of a state nature preserve within 1,000 feet of the facility/site, check here: ☐

Enter river code here, if discharge is to a river designated scenic, wild, or recreational, or to a tributary within 1,000 feet (see instructions): _____

General Permit Number: OHC 000002

Initial Coverage: ☒

Renewal Coverage: ☐

Type of Activity: Construction Site Storm Water

SIC Code(s): - _____ - _____ - _____ - _____

Existing NPDES Permit Number: _____

ODNR Coal Mining Application Number: _____

Outfall

Design Flow (MGD)

Latitude

Longitude

Other DSW Permits Required: _____

Proposed Project Start Date (MO DY YR): 04/01/08

Estimated Completion Date: (MO DY YR): 04/01/09

Total Land Disturbance (Acres): 3.00

MS4 Drainage Area (Square Miles): _____

Payment Information: Check # 9168

Check Amount: \$200

Date of Check: 2-28-08

For Ohio EPA Use Only

Check ID (OFA): _____

Person: _____

Place: _____

DOC #: _____

ORG #: _____

Rev. ID #: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

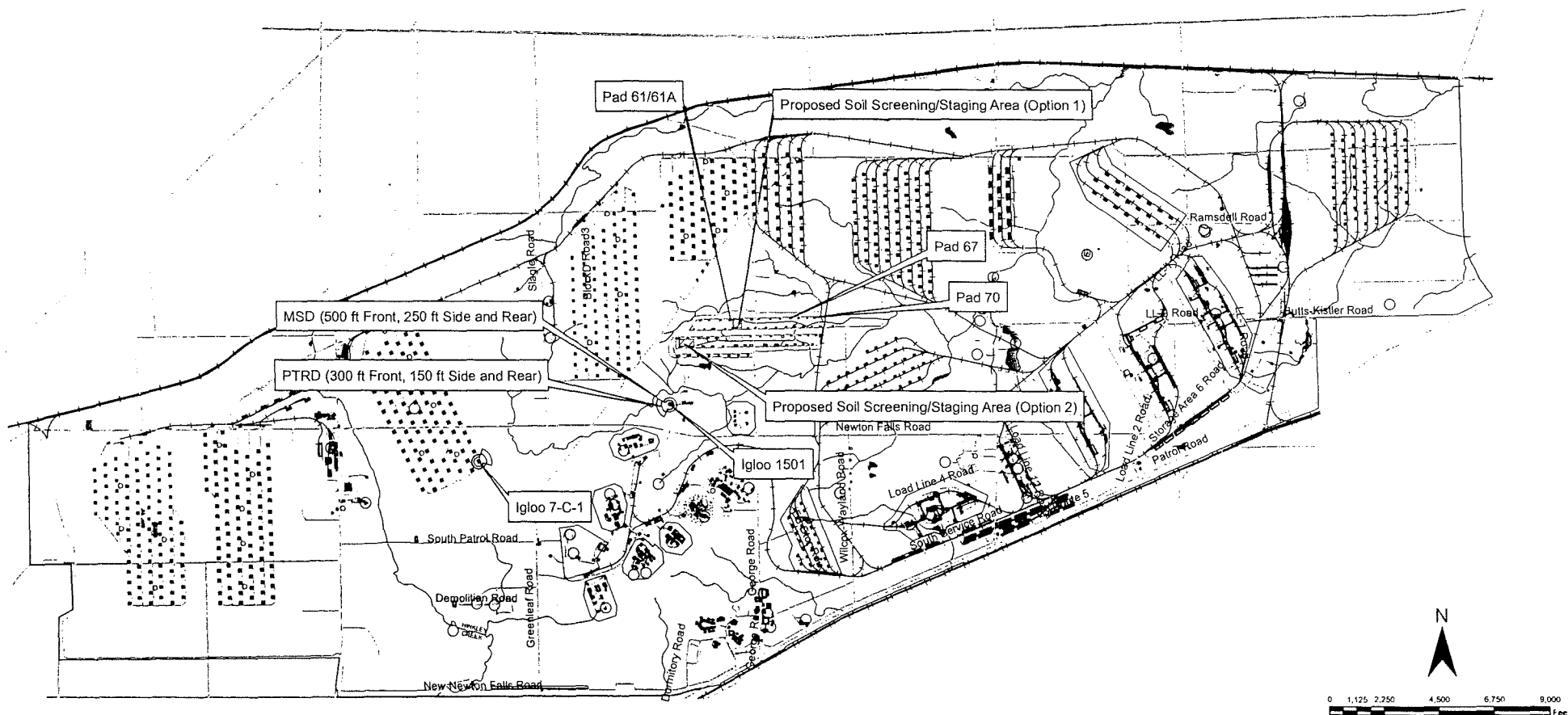
Applicant Name: Brian Stockwell

Title: Project Manager

Applicant Signature: [Signature]

Date: 2-22-08

- Legend
- Water Bodies
 - Buildings
 - Walkways
 - Railroads
 - Berms

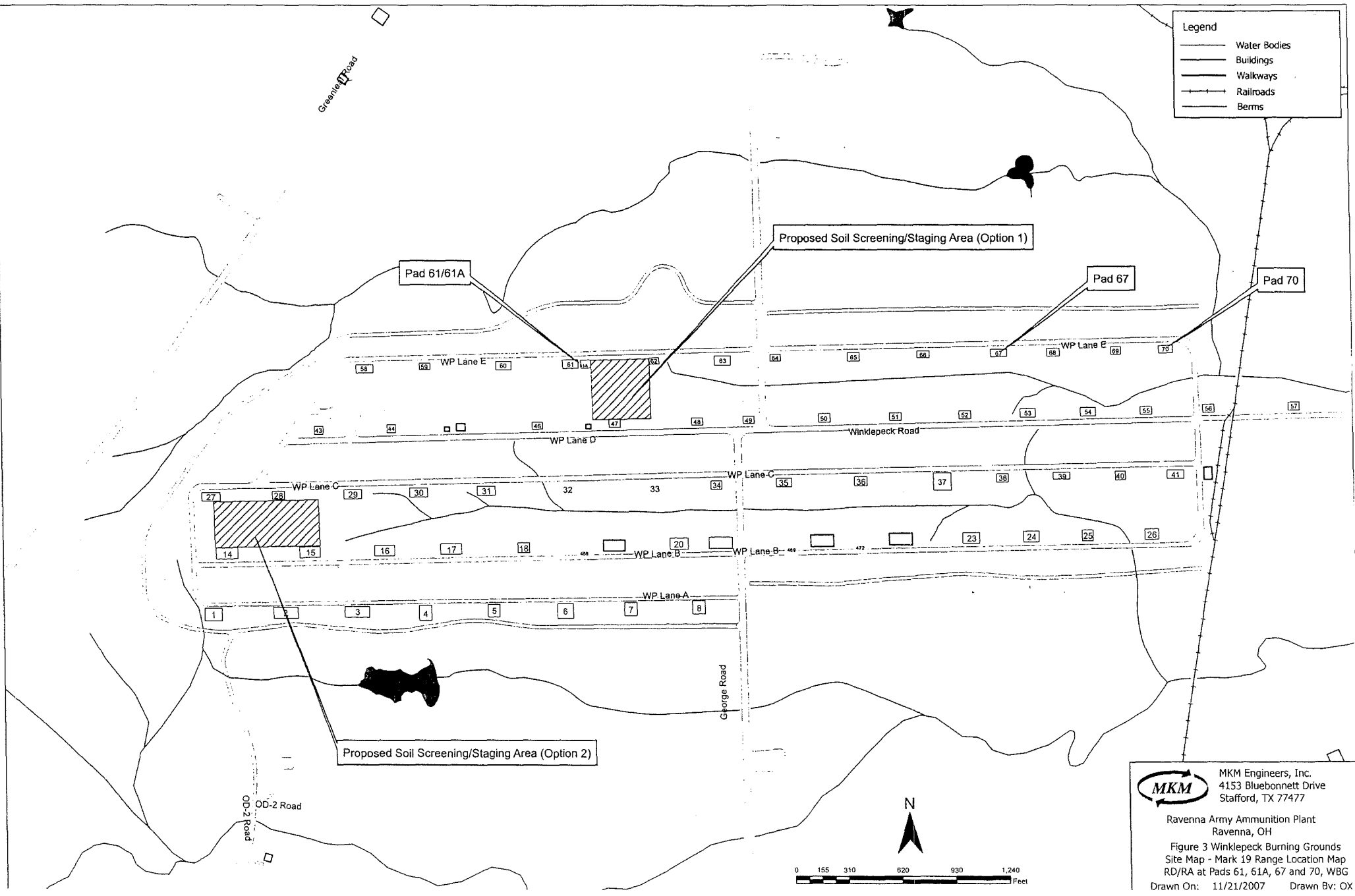


MKM Engineers, Inc.
4153 Bluebonnett Drive
Stafford, TX 77477
Ravenna Army Ammunition Plant
Ravenna, OH

FIGURE 4 - Location of Storage Igloo 1501 at OD-2 and 7-C-1
RD/RA at Pads 61, 61A, 67 and 70, WBG
Drawn On: 1/28/2008 Drawn By: OX

Legend

- Water Bodies
- Buildings
- Walkways
- Railroads
- Berms



MKM MKM Engineers, Inc.
 4153 Bluebonnett Drive
 Stafford, TX 77477

Ravenna Army Ammunition Plant
 Ravenna, OH

Figure 3 Winklepeck Burning Grounds
 Site Map - Mark 19 Range Location Map
 RD/RA at Pads 61, 61A, 67 and 70, WBG

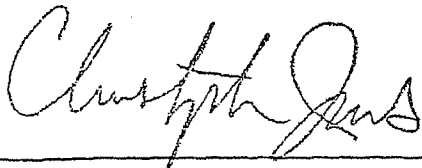
Drawn On: 11/21/2007 Drawn By: OX

OHIO ENVIRONMENTAL PROTECTION AGENCY

**AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED
WITH CONSTRUCTION ACTIVITY UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the federal Water Pollution Control Act, as amended (33 U.S.C. Section 1251 et. seq. hereafter referred to as "the Act") and the Ohio Water Pollution Control Act [Ohio Revised Code ("ORC") Chapter 6111], dischargers of storm water from sites where construction activity is being conducted, as defined in Part I.B of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to discharge from the outfalls at the sites and to the receiving surface waters of the state identified in their Notice of Intent ("NOI") application form on file with Ohio EPA in accordance with the conditions specified in Parts I through VII of this permit.

This permit is conditioned upon payment of applicable fees, submittal of a complete NOI application form and written approval of coverage from the director of Ohio EPA in accordance with Ohio Administrative Code ("OAC") Rule 3745-38-06.



Christopher Jones
Director

OHIO E.P.A.
APR 21 2003
INTEREDUCTION'S JOURNAL

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PART I. COVERAGE UNDER THIS PERMIT

A. Permit Area.

This permit covers the entire State of Ohio.

B. Eligibility.

1. Construction activities covered. Except for storm water discharges identified under Part I.B.2, this permit may cover all new and existing discharges composed entirely of storm water discharges associated with construction activity that enter surface waters of the state or a storm drain leading to surface waters of the state.

For the purposes of this permit, construction activities include any clearing, grading, excavating, grubbing and/or filling activities that disturb the threshold acreage described in the next paragraph. Discharges from trench dewatering are also covered by this permit as long as the dewatering activity is carried out in accordance with the practices outlined in Part III.G.2.g.iv of this permit:

Prior to March 10, 2003, only construction activities disturbing five or more acres of total land were required to obtain NPDES construction storm water permit coverage. On and after March 10, 2003, construction activities disturbing one or more acres of total land will be eligible for coverage under this permit. The threshold acreage includes the entire area disturbed in the larger common plan of development or sale.

This permit also authorizes storm water discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) provided:

- a. The support activity is directly related to a construction site that is required to have NPDES permit coverage for discharges of storm water associated with construction activity;
- b. The support activity is not a commercial operation serving multiple unrelated construction projects and does not operate beyond the completion of the construction activity at the site it supports;
- c. Appropriate controls and measures are identified in a storm water pollution prevention plan (SWP3) covering the discharges from the support activity; and
- d. The support activity is on or contiguous with the property defined in the NOI;

Part I.B

2. Limitations on coverage. The following storm water discharges associated with construction activity are not covered by this permit:
 - a. Storm water discharges that originate from the site after construction activities have been completed, including any temporary support activity, and the site has achieved final stabilization. Industrial post-construction storm water discharges may need to be covered by an NPDES permit;
 - b. Storm water discharges associated with construction activity that the director has shown to be or may reasonably expect to be contributing to a violation of a water quality standard; and
 - c. Storm water discharges authorized by an individual NPDES permit or another NPDES general permit;
3. Waivers. After March 10, 2003, sites whose larger common plan of development or sale have at least one, but less than five acres of land disturbance, which would otherwise require permit coverage for storm water discharges associated with construction activities, may request that the director waive their permit requirement. Entities wishing to request such a waiver must certify in writing that the construction activity meets one of the two the waiver conditions:
 - a. **Rainfall erosivity waiver.** For a construction site to qualify for the rainfall erosivity waiver, the cumulative rainfall erosivity over the project duration must be five or less and the site must be stabilized with at least a 70 percent vegetative cover or other permanent, non-erosive cover. The rainfall erosivity must be calculated according to the method in U.S. EPA Fact Sheet 3.1 Construction Rainfall Erosivity Waiver dated January 2001. If it is determined that a construction activity will take place during a time period where the rainfall erosivity factor is less than five, a written waiver certification must be submitted to Ohio EPA at least 21 days before construction activity is scheduled to begin. If the construction activity will extend beyond the dates specified in the waiver certification, the operator must either: (a) recalculate the waiver using the original start date with the new ending date (if the R factor is still less than five, a new waiver certification must be submitted) or (b) submit an NOI application form and fee for coverage under this general permit at least seven days prior to the end of the waiver period (see Attachment A); or

Part I.B.3

- b. **TMDL (Total Maximum Daily Load) waiver.** Storm water controls are not needed based on a TMDL approved or established by U.S. EPA that addresses the pollutant(s) of concern or, for non-impaired waters that do not require TMDLs, an equivalent analysis that determines allocations for small construction sites for the pollutant(s) of concern or that determines that such allocations are not needed to protect water quality based on consideration of existing in-stream concentrations, expected growth in pollutant contributions from all sources, and a margin of safety. The pollutant(s) of concern include sediment or a parameter that addresses sediment (such as total suspended solids, turbidity or siltation) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the construction activity. The operator must certify to the director of Ohio EPA that the construction activity will take place, and storm water discharges will occur, within the drainage area addressed by the TMDL or equivalent analysis. A written waiver certification must be submitted to Ohio EPA at least 21 days before the construction activity is scheduled to begin.
4. **Prohibition on non-storm water discharges.** All discharges covered by this permit must be composed entirely of storm water with the exception of the following: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; irrigation drainage; lawn watering; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated ground water from trench or well point dewatering and foundation or footing drains where flows are not contaminated with process materials such as solvents. Dewatering activities must be done in compliance with Part III.G.2.g.iv of this permit. Discharges of material other than storm water or the authorized non-storm water discharges listed above must comply with an individual NPDES permit or an alternative NPDES general permit issued for the discharge.

Except for flows from fire fighting activities, sources of non-storm water listed above that are combined with storm water discharges associated with construction activity must be identified in the SWP3. The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

Part I.B

5. Spills and unintended releases (Releases in excess of Reportable Quantities). This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 117 and 40 CFR Part 302. In the event of a spill or other unintended release, the discharge of hazardous substances in the storm water discharge(s) from a construction site must be minimized in accordance with the applicable storm water pollution prevention plan for the construction activity and in no case, during any 24-hour period, may the discharge(s) contain a hazardous substance equal to or in excess of reportable quantities.

40 CFR Part 117 sets forth a determination of the reportable quantity for each substance designated as hazardous in 40 CFR Part 116. The regulation applies to quantities of designated substances equal to or greater than the reportable quantities, when discharged to surface waters of the state. 40 CFR Part 302 designates under section 102(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, those substances in the statutes referred to in section 101(14), identifies reportable quantities for these substances and sets forth the notification requirements for releases of these substances. This regulation also sets forth reportable quantities for hazardous substances designated under section 311(b)(2)(A) of the Clean Water Act (CWA).

C. Requiring an individual NPDES permit or an alternative NPDES general permit.

1. The director may require an alternative permit. The director may require any operator eligible for this permit to apply for and obtain either an individual NPDES permit or coverage under an alternative NPDES general permit in accordance with OAC Rule 3745-38-04. Any interested person may petition the director to take action under this paragraph.

The director will send written notification that an alternative NPDES permit is required. This notice shall include a brief statement of the reasons for this decision, an application form and a statement setting a deadline for the operator to file the application. If an operator fails to submit an application in a timely manner as required by the director under this paragraph, then coverage, if in effect, under this permit is automatically terminated at the end of the day specified for application submittal.

Part I.C

2. Operators may request an individual NPDES permit. Any owner or operator eligible for this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request to the director in accordance with the requirements of 40 CFR 122.26. If the reasons adequately support the request, the director shall grant it by issuing an individual NPDES permit.
3. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be.

D. Permit requirements when portions of a site are sold

If an operator obtains a permit for a development, and then the operator (permittee) sells off lots or parcels within that development, permit coverage must be continued on those lots until a Notice of Termination (NOT) in accordance with Part IV.B is submitted. For developments which require the use of centralized sediment and erosion controls (i.e., controls that address storm water runoff from one or more lots) for which the conveyance of permit coverage for a portion of the development will either prevent or impair the implementation of the controls and therefore jeopardize compliance with the terms and conditions of this permit, the permittee will be required to maintain responsibility for the implementation of those controls. For developments where this is not the case, it is the permittee's responsibility to temporarily stabilize all lots sold to individual lot owners unless an exception is approved in accordance with Part III.G.4. In cases where permit coverage for individual lot(s) will be conveyed, the permittee shall inform the individual lot owner of the obligations under this permit and ensure that the Individual Lot NOI application is submitted to Ohio EPA.

Part I**E. Authorization**

1. Obtaining authorization to discharge. Operators that discharge storm water associated with construction activity must submit an NOI application form in accordance with the requirements of Part II of this permit to obtain authorization to discharge under this general permit. As required under OAC Rule 3745-38-06(E), the director, in response to the NOI submission, shall notify the applicant in writing that he/she has been granted general permit coverage to discharge storm water associated with construction activity under the terms and conditions of this permit or that the applicant must apply for an individual NPDES permit or coverage under an alternate general NPDES permit as described in Part I.C.1.
2. No release from other requirements. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations. Other permit requirements commonly associated with construction activities include, but are not limited to, section 401 water quality certifications, isolated wetland permits, permits to install sanitary sewers or other devices that discharge or convey polluted water, permits to install drinking water lines, single lot sanitary system permits and disturbance of land which was used to operate a solid or hazardous waste facility (i.e., coverage under this NPDES general permit does not satisfy the requirements of OAC Rule 3745-27-13 or ORC Section 3734.02(H)). This permit does not relieve the permittee of other responsibilities associated with construction activities such as contacting the Ohio Department of Natural Resources, Division of Water, to ensure proper well installation and abandonment of wells.

Part II. NOTICE OF INTENT REQUIREMENTS**A. Deadlines for notification.**

Initial coverage: Operators who intend to obtain initial coverage for a storm water discharge associated with construction activity under this general permit must submit a complete and accurate NOI application form and appropriate fee at least 21 days prior to the commencement of construction activity. If more than one operator, as defined in Part VII of this general permit, will be engaged at a site, each operator shall seek coverage under this general permit. Where one operator has already submitted an NOI prior to other operator(s) being identified, the additional operator shall request modification of coverage to become a co-permittee. In such instances, the co-permittees shall be covered under the same facility permit number. No additional permit fee is required.

Part II.A

Individual lot transfer of coverage: Operators must each submit an individual lot notice of intent (Individual Lot NOI) application form (no fee required) to Ohio EPA at least seven days prior to the date that they intend to accept responsibility for permit requirements for their portion of the original permitted development from the previous permittee. The original permittee may submit an Individual Lot NOT at the time the Individual Lot NOI is submitted. Transfer of permit coverage is not granted until an approval letter from the director of Ohio EPA is received by the applicant.

B. Failure to notify.

Operators who fail to notify the director of their intent to be covered and who discharge pollutants to surface waters of the state without an NPDES permit are in violation of ORC Chapter 6111. In such instances, Ohio EPA may bring an enforcement action for any discharges of storm water associated with construction activity.

C. Where to submit an NOI.

Operators seeking coverage under this permit must submit a signed NOI form, provided by Ohio EPA, to the address found in the associated instructions.

D. Additional notification.

The permittee shall make NOIs and SWP3s available upon request of the director of Ohio EPA, local agencies approving sediment and erosion control plans, grading plans or storm water management plans, local governmental officials, or operators of municipal separate storm sewer systems (MS4s) receiving drainage from the permitted site. Each operator that discharges to an NPDES permitted MS4 shall provide a copy of its Ohio EPA NOI submission to the MS4 in accordance with the MS4's requirements, if applicable.

E. Renotification.

Upon renewal of this general permit, the permittee is required to notify the director of his intent to be covered by the general permit renewal. Permittees covered under the previous NPDES general permit for storm water discharges associated with construction activity (NPDES permit number OHR100000) shall have continuing coverage under this permit. The permittees covered under OHR100000 shall submit a letter within 90 days of receipt of written notification by Ohio EPA expressing their intent that coverage be continued. There is no fee associated with these letters of intent for continued coverage. Permit coverage will be terminated after the 90-day period if the letter is not received by Ohio EPA. Ohio EPA will provide instructions on the contents of the letter and where it is to be sent within the notification letter.

PART III. STORM WATER POLLUTION PREVENTION PLAN (SWP3)**A. Storm Water Pollution Prevention Plans.**

A SWP3 shall be developed for each site covered by this permit. For a multi-phase construction project, a separate NOI shall be submitted when a separate SWP3 will be prepared for subsequent phases. SWP3s shall be prepared in accordance with sound engineering and/or conservation practices by a professional experienced in the design and implementation of standard erosion and sediment controls and storm water management practices addressing all phases of construction. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with construction activities. In addition, the SWP3 shall describe and ensure the implementation of best management practices (BMPs) that reduce the pollutants in storm water discharges during construction and pollutants associated with post-construction activities to ensure compliance with ORC Section 6111.04, OAC Chapter 3745-1 and the terms and conditions of this permit.

B. Timing

A SWP3 shall be completed prior to the timely submittal of an NOI and updated in accordance with Part III.D. Upon request and good cause shown, the director may waive the requirement to have a SWP3 completed at the time of NOI submission. If a waiver has been granted, the SWP3 must be completed prior to the initiation of construction activities. The SWP3 must be implemented upon initiation of construction activities.

Permittees continuing coverage from the previous generation of this permit (OHR100000) that have initiated construction activity prior to the receipt of written notification from Ohio EPA to submit a letter of intent to continue coverage, as required in Part II.E, are not required to update their SWP3 as a result of this renewal (OHC000002). All permittees developing sites with coverage under OHR100000 that seek continuation of coverage do not need to update the post-construction section of their SWP3 as required in Part III.G.2.e of this permit.

C. SWP3 Signature and Review.

1. Plan Signature and Retention On Site. The SWP3 shall be signed in accordance with Part V.G. and retained on site during working hours.
2. Plan Availability
 - a. On-site: The plan shall be made available immediately upon request of the director or his authorized representative during working hours. A copy of the NOI and letter granting permit coverage under this general permit also shall be made available at the site.

Part III.C.2

- b. By written request: The permittee must provide a copy of the SWP3 within 10 days upon written request of any of the following:
 - i. The director or the director's authorized representative;
 - ii. A local agency approving sediment and erosion plans, grading plans or storm water management plans; or
 - iii. In the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the operator of the system.
 - c. To the public: All NOIs, general permit approval for coverage letters, and SWP3s are considered reports that shall be available to the public in accordance with the Ohio Public Records law. The permittee shall make documents available to the public upon request or provide a copy at public expense, at cost, in a timely manner. However, the permittee may claim to Ohio EPA any portion of an SWP3 as confidential in accordance with Ohio law.
3. Plan Revision. The director or authorized representative, may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of this part. Within 10 days after such notification from the director, (or as otherwise provided in the notification) or authorized representative, the permittee shall make the required changes to the SWP3 and, if requested, shall submit to Ohio EPA the revised SWP3 or a written certification that the requested changes have been made.

D. Amendments

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants to surface waters of the state or if the SWP3 proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with construction activity. Amendments to the SWP3 may be reviewed by Ohio EPA in the same manner as Part III.C.

Part III

E. Duty to inform contractors and subcontractors

The permittee shall inform all contractors and subcontractors not otherwise defined as "operators" in Part VII of this general permit, who will be involved in the implementation of the SWP3, of the terms and conditions of this general permit. The permittee shall maintain a written document containing the signatures of all contractors and subcontractors involved in the implementation of the SWP3 as proof acknowledging that they reviewed and understand the conditions and responsibilities of the SWP3. The written document shall be created and signatures shall be obtained prior to commencement of work on the construction site.

F. Total Maximum Daily Load (TMDL) allocations

If a TMDL is approved for any waterbody into which the permittee's site discharges and requires specific BMPs for construction sites, the director may require the permittee to revise his/her SWP3.

G. SWP3 Requirements

Operations that discharge storm water from construction activities are subject to the following requirements and the SWP3 shall include the following items:

1. Site description. Each SWP3 shall provide:
 - a. A description of the nature and type of the construction activity (e.g., low density residential, shopping mall, highway, etc.);
 - b. Total area of the site and the area of the site that is expected to be disturbed (i.e., grubbing, clearing, excavation, filling or grading, including off-site borrow areas);
 - c. A calculation of the runoff coefficients for both the pre-construction and post construction site conditions;
 - d. An estimate of the impervious area and percent imperviousness created by the construction activity;
 - e. Existing data describing the soil and, if available, the quality of any discharge from the site;
 - f. A description of prior land uses at the site;

Part III.G.1

- g. An implementation schedule which describes the sequence of major construction operations (i.e., grubbing, excavating, grading, utilities and infrastructure installation) and the implementation of erosion, sediment and storm water management practices or facilities to be employed during each operation of the sequence;
- h. The name and/or location of the immediate receiving stream or surface water(s) and the first subsequent named receiving water(s) and the areal extent and description of wetlands or other special aquatic sites at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project;
- i. For subdivided developments where the SWP3 does not call for a centralized sediment control capable of controlling multiple individual lots, a detail drawing of a typical individual lot showing standard individual lot erosion and sediment control practices.

This does not remove the responsibility to designate specific erosion and sediment control practices in the SWP3 for critical areas such as steep slopes, stream banks, drainage ways and riparian zones.

- j. Location and description of any storm water discharges associated with dedicated asphalt and dedicated concrete plants covered by this permit and the best management practices to address pollutants in these storm water discharges;
- k. A copy of the permit requirements (attaching a copy of this permit is acceptable); and
- l. Site map showing:
 - i. Limits of earth-disturbing activity of the site including associated off-site borrow or spoil areas that are not addressed by a separate NOI and associated SWP3;
 - ii. Soils types should be depicted for all areas of the site, including locations of unstable or highly erodible soils;
 - iii. Existing and proposed contours. A delineation of drainage watersheds expected during and after major grading activities as well as the size of each drainage watershed, in acres;

Part III.G.1.I

- iv. Surface water locations including springs, wetlands, streams, lakes, water wells, etc., on or within 200 feet of the site, including the boundaries of wetlands or stream channels and first subsequent named receiving water(s) the permittee intends to fill or relocate for which the permittee is seeking approval from the Army Corps of Engineers and/or Ohio EPA;
 - v. Existing and planned locations of buildings, roads, parking facilities and utilities;
 - vi. The location of all erosion and sediment control practices, including the location of areas likely to require temporary stabilization during the course of site development;
 - vii. Sediment and storm water management basins noting their sediment settling volume and contributing drainage area;
 - viii. Permanent storm water management practices to be used to control pollutants in storm water after construction operations have been completed.
 - ix. Areas designated for the storage or disposal of solid, sanitary and toxic wastes, including dumpster areas, areas designated for cement truck washout, and vehicle fueling;
 - x. The location of designated construction entrances where the vehicles will access the construction site;
 - xi. The location of any in-stream activities including stream crossings;
2. Controls. The SWP3 must contain a description of the controls appropriate for each construction operation covered by this permit and the operator(s) must implement such controls. The SWP3 must clearly describe for each major construction activity identified in Part III.G.1.g: (a) appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented; and (b) which contractor is responsible for implementation (e.g., contractor A will clear land and install perimeter controls and contractor B will maintain perimeter controls until final stabilization). Ohio EPA recommends that the erosion, sediment, and storm water management practices used to satisfy the conditions of this permit, should meet the standards and specifications in the current edition of Ohio's Rainwater and Land Development (see definitions) manual or other standards acceptable to Ohio EPA. The controls shall include the following minimum components:

Part III.G.2

- a. **Non-Structural Preservation Methods.** The SWP3 must make use of practices which preserve the existing natural condition as much as feasible. Such practices may include: preserving riparian areas adjacent to surface waters of the state, preserving existing vegetation and vegetative buffer strips, phasing of construction operations in order to minimize the amount of disturbed land at any one time and designation of tree preservation areas or other protective clearing or grubbing practices. The recommended buffer that operators should leave undisturbed along a surface water of the state is 25 feet as measured from the ordinary high water mark of the surface water.
- b. **Erosion Control Practices.** The SWP3 must make use of erosion controls that are capable of providing cover over disturbed soils unless an exception is approved in accordance with Part III.G.4. A description of control practices designed to restabilize disturbed areas after grading or construction shall be included in the SWP3. The SWP3 must provide specifications for stabilization of all disturbed areas of the site and provide guidance as to which method of stabilization will be employed for any time of the year. Such practices may include: temporary seeding, permanent seeding, mulching, matting, sod stabilization, vegetative buffer strips, phasing of construction operations, use of construction entrances and the use of alternative ground cover.
- i. **Stabilization.** Disturbed areas must be stabilized as specified in the following tables below. Permanent and temporary stabilization are defined in Part VII.

Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a stream and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area

Part III.G.2.b.i

Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a stream and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 21 days
For all construction activities, any disturbed areas that will be dormant for more than 21 days but less than one year, and not within 50 feet of a stream	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

Where vegetative stabilization techniques may cause structural instability or are otherwise unobtainable, alternative stabilization techniques must be employed.

- ii. **Permanent stabilization of conveyance channels.** Operators shall undertake special measures to stabilize channels and outfalls and prevent erosive flows. Measures may include seeding, dormant seeding (as defined in the 1996 edition of the Rainwater and Land Development manual), mulching, erosion control matting, sodding, riprap, natural channel design with bioengineering techniques or rock check dams.
- c. **Runoff Control Practices.** The SWP3 shall incorporate measures which control the flow of runoff from disturbed areas so as to prevent erosion from occurring. Such practices may include rock check dams, pipe slope drains, diversions to direct flow away from exposed soils and protective grading practices. These practices shall divert runoff away from disturbed areas and steep slopes where practicable.
- d. **Sediment Control Practices.** The plan shall include a description of structural practices that shall store runoff allowing sediments to settle and/or divert flows away from exposed soils or otherwise limit runoff from exposed areas. Structural practices shall be used to control erosion and trap sediment from a site remaining disturbed for more than 14 days. Such practices may include, among others: sediment settling ponds, silt fences, earth diversion dikes or channels which direct runoff to a sediment settling pond and storm drain inlet protection. All sediment control practices must be capable of ponding runoff in order to be considered functional. Earth diversion dikes or channels alone are not considered a sediment control practice unless those are used in conjunction with a sediment settling pond.

Part III.G.2.d

The SWP3 must contain detail drawings for all structural practices.

- i. Timing. Sediment control structures shall be functional throughout the course of earth disturbing activity. Sediment basins and perimeter sediment barriers shall be implemented prior to grading and within seven days from the start of grubbing. They shall continue to function until the up slope development area is restabilized. As construction progresses and the topography is altered, appropriate controls must be constructed or existing controls altered to address the changing drainage patterns.
- ii. Sediment settling ponds. Concentrated storm water runoff and runoff from drainage areas, which exceed the design capacity of silt fence or inlet protection, shall pass through a sediment settling pond. For common drainage locations that serve an area with 10 or more acres disturbed at one time, a temporary (or permanent) sediment settling pond must be provided until final stabilization of the site. The permittee may request approval from Ohio EPA to use alternative controls if it can demonstrate the alternative controls are equivalent in effectiveness to a sediment settling pond. It is recommended for drainage locations serving less than 10 acres, smaller sediment basins and/or sediment traps should be used.

The sediment settling pond shall be sized to provide at least 67 cubic yards of storage per acre of total contributing drainage area. When determining the total contributing drainage area, off-site areas and areas which remain undisturbed by construction activity must be included unless runoff from these areas is diverted away from the sediment settling pond and is not co-mingled with sediment-laden runoff. The depth of the sediment settling pond must be less than or equal to five feet. The configuration between inlets and the outlet of the basin must provide at least two units of length for each one unit of width (> 2:1 length:width ratio). Sediment must be removed from the sediment settling pond when the design capacity has been reduced by 40 percent (This is typically reached when sediment occupies one-half of the basin depth). When designing sediment settling ponds, the permittee must consider public safety, especially as it relates to children, as a design factor for the sediment basin and alternative sediment controls must be used where site limitations would preclude a safe design. The use of a combination of sediment and erosion control measures in order to achieve maximum pollutant removal is encouraged.

Part III.G.2.d

- iii. Silt Fence and Diversions. Sheet flow runoff from denuded areas shall be intercepted by silt fence or diversions to protect adjacent properties and water resources from sediment transported via sheet flow. Where intended to provide sediment control, silt fence shall be placed on a level contour. This permit does not preclude the use of other sediment barriers designed to control sheet flow runoff. The relationship between the maximum drainage area to silt fence for a particular slope range is shown in the table below.

Maximum drainage area (in acres) to 100 linear feet of silt fence	Range of slope for a particular drainage area (in percent)
0.5	< 2%
0.25	≥ 2% but < 20%
0.125	≥ 20% but < 50%

Storm water diversion practices shall be used to keep runoff away from disturbed areas and steep slopes where practicable. Such devices, which include swales, dikes or berms, may receive storm water runoff from areas up to 10 acres.

- iv. Inlet Protection. Other erosion and sediment control practices shall minimize sediment laden water entering active storm drain systems, unless the storm drain system drains to a sediment settling pond.
- v. Stream Protection. If construction activities disturb areas adjacent to streams, structural practices shall be designed and implemented on site to protect all adjacent streams from the impacts of sediment runoff. No structural sediment controls (e.g., the installation of silt fence or a sediment settling pond in-stream) shall be used in a stream. For all construction activities immediately adjacent to surface waters of the state, it is recommended that a setback of at least 25-feet, as measured from the ordinary high water mark of the surface water, be maintained in its natural state as a permanent buffer. Where impacts within this setback area are unavoidable due to the nature of the construction activity (e.g., stream crossings for roads or utilities), the project shall be designed such that the number of stream crossings and the width of the disturbance within the setback area are minimized.
- vi. Modifying Controls. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the permittee must replace or modify the control for site conditions.

Part III.G.2

- e. **Post-Construction Storm Water Management Requirements.** So that receiving stream's physical, chemical, and biological characteristics are protected and stream functions are maintained, post-construction storm water practices shall provide perpetual management of runoff quality and quantity. To meet the post-construction requirements of this permit, the SWP3 must contain a description of the post-construction BMPs that will be installed during construction for the site and the rationale for their selection. The rationale must address the anticipated impacts on the channel and floodplain morphology, hydrology, and water quality.

Detail drawings and maintenance plans must be provided for all post-construction BMPs. Maintenance plans shall be provided by the permittee to the post-construction operator of the site (including homeowner associations) upon completion of construction activities (prior to termination of permit coverage). For sites located within a community with a regulated municipal separate storm sewer system (MS4), the permittee, land owner, or other entity with legal control of the property may be required to develop and implement a maintenance plan to comply with the requirements of the MS4. Maintenance plans must ensure that pollutants collected within structural post-construction practices, be disposed of in accordance with local, state, and federal regulations. Permittees, except for those regulated under the small MS4 program, are not responsible under this permit for operation and maintenance of post-construction practices once coverage under this permit is terminated.

This permit does not preclude the use of innovation or experimental post-construction storm water management technologies. However, the director may require discharges from such structures to be monitored to ensure compliance with Part III.G.2.e of this permit. The installation of structural controls in certain scenarios may also require a separate permit under section 404 of the CWA. Permittees are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site and are not responsible for maintenance after storm water discharges associated with construction activity have been eliminated from the site. However, post-construction storm water BMPs that discharge pollutants from point sources once construction is completed, may in themselves, need authorization under a separate NPDES permit.

Linear construction projects, (e.g., pipeline or utility line installation), which do not result in the installation of impervious surface, are not required to comply with the conditions of Part III.G.2.e of this permit. However, linear construction projects must be designed to minimize the number of stream crossings and the width of disturbance.

Part III.G.2.e

Large Construction Activities. For all large construction activities (involving the disturbance of five or more acres of land or will disturb less than five acres, but is a part of a larger common plan of development or sale which will disturb five or more acres of land), the post construction BMP(s) chosen must be able to detain storm water runoff for protection of the stream channels, stream erosion control, and improved water quality. Structural (designed) post-construction storm water treatment practices shall be incorporated into the permanent drainage system for the site. The BMP(s) chosen must be sized to treat the water quality volume (WQ_v) and ensure compliance with Ohio's Water Quality Standards in OAC Chapter 3745-1. The WQ_v shall be equivalent to the volume of runoff from a 0.75-inch rainfall and shall be determined according to one of the two following methods:

- i. Through a site hydrologic study approved by the local municipal permitting authority that uses continuous hydrologic simulation and local long-term hourly precipitation records or
- ii. Using the following equation:

$$WQ_v = C * P * A / 12$$

where:

WQ_v = water quality volume in acre-feet

C = runoff coefficient appropriate for storms less than 1 inch
(see Table 1)

P = 0.75 inch precipitation depth

A = area draining into the BMP in acres

Table 1
Runoff Coefficients Based on the Type of Land Use

Land Use	Runoff Coefficient
Industrial & Commercial	0.8
High Density Residential (>8 dwellings/acre)	0.5
Medium Density Residential (4 to 8 dwellings/acre)	0.4
Low Density Residential (<4 dwellings/acre)	0.3
Open Space and Recreational Areas	0.2

Where the land use will be mixed, the runoff coefficient should be calculated using a weighted average. For example, if 60% of the contributing drainage area to the storm water treatment structure is Low Density Residential, 30% is High Density Residential, and 10% is Open Space, the runoff coefficient is calculated as follows $(0.6)(0.3) + (0.3)(0.5) + (0.1)(0.2) = 0.35$.

Part III.G.2.e

An additional volume equal to 20 percent of the WQ_v shall be incorporated into the BMP for sediment storage and/or reduced infiltration capacity. Ohio EPA recommends that BMPs be designed according to the methodology included in the Rainwater and Land Development manual or in another design manual acceptable for use by Ohio EPA.

BMPs shall be designed such that the drain time is long enough to provide treatment, but short enough to provide storage available for successive rainfall events as described in Table 2 below.

Table 2
Target Draw Down (Drain) Times for Structural
Post-Construction Treatment Control Practices

Best Management Practice	Drain Time of WQ_v
Infiltration	24 - 48 hours
Vegetated Swale and Filter Strip	24 hours
Extended Detention Basin (Dry Basins)	48 hours
Retention Basins (Wet Basins)*	24 hours
Constructed Wetlands (above permanent pool)	24 hours
Media Filtration, Bioretention	40 hours

* Provide both a permanent pool and an extended detention volume above the permanent pool, each sized at $0.75 * WQ_v$

The permittee may request approval from Ohio EPA to use alternative structural post-construction BMPs if the permittee can demonstrate that the alternative BMPs are equivalent in effectiveness to those listed in Table 2 above. Construction activities shall be exempt from this condition if it can be demonstrated that the WQ_v is provided within an existing structural post-construction BMP that is part of a larger common plan of development or if structural post-construction BMPs are addressed in a regional or local storm water management plan. Public entities (i.e., the state, counties, townships, cities, or villages) shall comply with the post-construction storm water management requirements of Part III.G.2.e for roadway construction projects initiated after March 10, 2006 and where practicable for projects initiated as of the effective date of this permit and thereafter.

For redevelopment projects (i.e., developments on previously developed property), post-construction practices shall either ensure a 20 percent net reduction of the site impervious area, provide for treatment of at least 20 percent of the WQ_v , or a combination of the two.

Part III.G.2.e

Small Construction Activities. For all small land disturbance activities (which disturb one or more, but less than five acres of land and is not a part of a larger common plan of development or sale which will disturb five or more acres of land), a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed must be included in the SWP3. Structural measures should be placed on upland soils to the degree attainable.

- i. Such practices may include, but are not limited to: storm water detention structures (including wet basins); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). The SWP3 shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed pre-development levels.
 - ii. Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel to provide non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., no significant changes in the hydrological regime of the receiving water).
- f. **Surface Water Protection.** If the project site contains any streams, rivers, lakes, wetlands or other surface waters, certain construction activities at the site may be regulated under the CWA and/or state isolated wetland permit requirements. Sections 404 and 401 of the Act regulate the discharge of dredged or fill material into surface waters and the impacts of such activities on water quality, respectively. Construction activities in surface waters which may be subject to CWA regulation and/or state isolated wetland permit requirements include, but are not limited to: sewer line crossings, grading, backfilling or culverting streams, filling wetlands, road and utility line construction, bridge installation and installation of flow control structures. If the project contains streams, rivers, lakes or wetlands or possible wetlands, the permittee must contact the appropriate U.S. Army Corps of Engineers District Office. (CAUTION: Any area of seasonally wet hydric soil is a potential wetland - please consult the Soil Survey and list of hydric soils for your County, available at your county's Soil and Water Conservation District. If you have any questions about Section 401 water quality certification, please contact the Ohio Environmental Protection Agency, Section 401 Coordinator.)

Part III.G.2.f

U.S. Army Corps of Engineers (Section 404 regulation):
Huntington, WV District (304) 529-5210 (Muskingum, Hocking and Scioto River Basin)

Buffalo, NY District (716) 879-4329 (Lake Erie Basin)

Pittsburgh, PA District (412) 395-7152 (Mahoning River Basin)

Louisville, KY District (502) 315-6678 (Little & Great Miami River Basin)

Ohio Environmental Protection Agency (Section 401 regulation):
Columbus, OH (614) 644-2001 (all of Ohio)

g. **Other controls.**

- i. **Non-Sediment Pollutant Controls.** No solid (other than sediment) or liquid waste, including building materials, shall be discharged in storm water runoff. The permittee must implement all necessary BMPs to prevent the discharge of non-sediment pollutants to the drainage system of the site or surface waters of the state. Under no circumstance shall concrete trucks wash out directly into a drainage channel, storm sewer or surface waters of the state. No exposure of storm water to waste materials is recommended.
- ii. **Off-site traffic.** Off-site vehicle tracking of sediments and dust generation shall be minimized.
- iii. **Compliance with other requirements.** The SWP3 shall be consistent with applicable State and/or local waste disposal, sanitary sewer or septic system regulations, including provisions prohibiting waste disposal by open burning and shall provide for the proper disposal of contaminated soils to the extent these are located within the permitted area.
- iv. **Trench and ground water control.** There shall be no turbid discharges to surface waters of the state resulting from dewatering activities. If trench or ground water contains sediment, it must pass through a sediment settling pond or other equally effective sediment control device, prior to being discharged from the construction site. Alternatively, sediment may be removed by settling in place or by dewatering into a sump pit, filter bag or comparable practice. Ground water dewatering which does not contain sediment or other pollutants is not required to be treated prior to discharge. However, care must be taken when discharging ground water to ensure that it does not become pollutant-laden by traversing over disturbed soils or other pollutant sources.

Part III.G.2

- h. **Maintenance.** All temporary and permanent control practices shall be maintained and repaired as needed to ensure continued performance of their intended function. All sediment control practices must be maintained in a functional condition until all up slope areas they control are permanently stabilized. The SWP3 shall be designed to minimize maintenance requirements. The applicant shall provide a description of maintenance procedures needed to ensure the continued performance of control practices.
- i. **Inspections.** At a minimum, procedures in an SWP3 shall provide that all controls on the site are inspected at least once every seven calendar days and within 24 hours after any storm event greater than one-half inch of rain per 24 hour period. The permittee shall assign qualified inspection personnel (those with knowledge and experience in the installation and maintenance of sediment and erosion controls) to conduct these inspections to ensure that the control practices are functional and to evaluate whether the SWP3 is adequate and properly implemented in accordance with the schedule proposed in Part III.G.1.g of this permit or whether additional control measures are required. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWP3 shall be observed to ensure that those are operating correctly. Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspection, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of this permit.

- i. **When practices require repair or maintenance.** If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it must be repaired or maintained within three days of the inspection. Sediment settling ponds must be repaired or maintained within 10 days of the inspection.

Part III.G.2.i

- ii. **When practices fail to provide their intended function.** If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 must be amended and the new control practice must be installed within 10 days of the inspection.
 - iii. **When practices depicted on the SWP3 are not installed.** If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.g of this permit, the control practice must be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record must contain a statement of explanation as to why the control practice is not needed.
3. **Approved State or local plans.** All dischargers regulated under this general permit must comply, except those exempted under state law, with the lawful requirements of municipalities, counties and other local agencies regarding discharges of storm water from construction activities. All erosion and sediment control plans and storm water management plans approved by local officials shall be retained with the SWP3 prepared in accordance with this permit. Applicable requirements for erosion and sediment control and storm water management approved by local officials are, upon submittal of a NOI form, incorporated by reference and enforceable under this permit even if they are not specifically included in an SWP3 required under this permit. When the project is located within the jurisdiction of a regulated municipal separate storm sewer system (MS4), the permittee must certify that the SWP3 complies with the requirements of the storm water management program of the MS4 operator.
4. **Exceptions.** If specific site conditions prohibit the implementation of any of the erosion and sediment control practices contained in this permit or site specific conditions are such that implementation of any erosion and sediment control practices contained in this permit will result in no environmental benefit, then the permittee shall provide justification for rejecting each practice based on site conditions. Exceptions from implementing the erosion and sediment control standards contained in this permit will be approved or denied on a case-by-case basis.

PART IV. NOTICE OF TERMINATION REQUIREMENTS**A. Failure to notify.**

The terms and conditions of this permit shall remain in effect until a signed Notice of Termination (NOT) form is submitted. Failure to submit an NOT constitutes a violation of this permit and may affect the ability of the permittee to obtain general permit coverage in the future.

B. When to submit an NOT

1. Permittees wishing to terminate coverage under this permit must submit an NOT form in accordance with Part V.G. of this permit. Compliance with this permit is required until an NOT form is submitted. The permittee's authorization to discharge under this permit terminates at midnight of the day the NOT form is submitted.
2. All permittees must submit an NOT form within 45 days of completing all permitted land disturbance activities. Enforcement actions may be taken if a permittee submits an NOT form without meeting one or more of the following conditions:
 - a. Final stabilization (see definition in Part VII) has been achieved on all portions of the site for which the permittee is responsible (including, if applicable, returning agricultural land to its pre-construction agricultural use);
 - b. Another operator(s) has assumed control over all areas of the site that have not been finally stabilized;
 - c. For residential construction only, temporary stabilization has been completed and the lot, which includes a home, has been transferred to the homeowner. (Note: individual lots without housing which are sold by the developer must undergo final stabilization prior to termination of permit coverage.); or
 - d. An exception has been granted under Part III.G.4.

C. How to submit an NOT

Permittees must use Ohio EPA's approved NOT form. The form must be completed and mailed according to the instructions and signed in accordance with Part V.G of this permit.

PART V. STANDARD PERMIT CONDITIONS.

A. Duty to comply.

1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of ORC Chapter 6111. and is grounds for enforcement action.
2. Ohio law imposes penalties and fines for persons who knowingly make false statements or knowingly swear or affirm the truth of a false statement previously made.

B. Continuation of an expired general permit.

An expired general permit continues in force and effect until a new general permit is issued.

C. Need to halt or reduce activity not a defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. Duty to provide information.

The permittee shall furnish to the director, within 10 days of written request, any information which the director may request to determine compliance with this permit. The permittee shall also furnish to the director upon request copies of records required to be kept by this permit.

F. Other information.

When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI, SWP3, NOT or in any other report to the director, he or she shall promptly submit such facts or information.

Part V

G. Signatory requirements.

All NOIs, NOTs, SWP3s, reports, certifications or information either submitted to the director or that this permit requires to be maintained by the permittee, shall be signed.

1. These items shall be signed as follows:

- a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - i. A president, secretary, treasurer or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or decision-making functions for the corporation; or
 - ii. The manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
- b. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
- c. For a municipality, State, Federal or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of U.S. EPA).

2. All reports required by the permits and other information requested by the director shall be signed by a person described in Part V.G.1 of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

Part V.G.2

- a. The authorization is made in writing by a person described in Part V.G.1 of this permit and submitted to the director;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator of a well or well field, superintendent, position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
 - c. The written authorization is submitted to the director.
3. Changes to authorization. If an authorization under Part V.G.2 of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part V.G.2 of this permit must be submitted to the director prior to or together with any reports, information or applications to be signed by an authorized representative.

H. Certification.

Any person signing documents under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I. Oil and hazardous substance liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under section 311 of the CWA or 40 CFR Part 112. 40 CFR Part 112 establishes procedures, methods and equipment and other requirements for equipment to prevent the discharge of oil from non-transportation-related onshore and offshore facilities into or upon the navigable surface waters of the State or adjoining shorelines.

Part V

J. Property rights.

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

K. Severability.

The provisions of this permit are severable and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

L. Transfers.

Ohio NPDES general permit coverage is transferable. Ohio EPA must be notified in writing sixty days prior to any proposed transfer of coverage under an Ohio NPDES general permit. The transferee must inform Ohio EPA it will assume the responsibilities of the original permittee transferor.

M. Environmental laws.

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

N. Proper operation and maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWP3s. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

O. Inspection and entry.

The permittee shall allow the director or an authorized representative of Ohio EPA, upon the presentation of credentials and other documents as may be required by law, to:

Part V.O

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

PART VI. REOPENER CLAUSE

- A. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with construction activity covered by this permit, the permittee of such discharge may be required to obtain coverage under an individual permit or an alternative general permit in accordance with Part I.C of this permit or the permit may be modified to include different limitations and/or requirements.
- B. Permit modification or revocation will be conducted according to ORC Chapter 6111.

PART VII. DEFINITIONS

- A. "Act" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483, Pub. L. 97-117 and Pub. L. 100-4, 33 U.S.C. 1251 et. seq.
- B. "Best management practices (BMPs)" means schedules of activities, prohibitions of practices, maintenance procedures and other management practices (both structural and non-structural) to prevent or reduce the pollution of surface waters of the state. BMP's also include treatment requirements, operating procedures and practices to control plant and/or construction site runoff, spillage or leaks, sludge or waste disposal or drainage from raw material storage.
- C. "Commencement of construction" means the initial disturbance of soils associated with clearing, grubbing, grading, placement of fill or excavating activities or other construction activities.
- D. "Concentrated storm water runoff" means any storm water runoff which flows through a drainage pipe, ditch, diversion or other discrete conveyance channel.
- E. "Director" means the director of the Ohio Environmental Protection Agency.

Part VII

- F. "Discharge" means the addition of any pollutant to the surface waters of the state from a point source.
- G. "Disturbance" means any clearing, grading, excavating, filling, or other alteration of land surface where natural or man-made cover is destroyed in a manner that exposes the underlying soils.
- H. "Final stabilization" means that either:
1. All soil disturbing activities at the site are complete and a uniform perennial vegetative cover (e.g., evenly distributed, without large bare areas) with a density of at least 70 percent cover for the area has been established on all unpaved areas and areas not covered by permanent structures or equivalent stabilization measures (such as the use of mulches, rip-rap, gabions or geotextiles) have been employed. In addition, all temporary erosion and sediment control practices are removed and disposed of and all trapped sediment is permanently stabilized to prevent further erosion; or
 2. For individual lots in residential construction by either:
 - a. The homebuilder completing final stabilization as specified above or
 - b. The homebuilder establishing temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for and benefits of, final stabilization. (Homeowners typically have an incentive to put in the landscaping functionally equivalent to final stabilization as quick as possible to keep mud out of their homes and off sidewalks and driveways.); or
 3. For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its pre-construction agricultural use. Areas disturbed that were previously used for agricultural activities, such as buffer strips immediately adjacent to surface waters of the state and which are not being returned to their pre-construction agricultural use, must meet the final stabilization criteria in (1) or (2) above.
- I. "Individual Lot NOI" means a Notice of Intent for an individual lot to be covered by this permit (see parts I and II of this permit).
- J. "Larger common plan of development or sale"- means a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan.

Part VII

- K. "MS4" means municipal separate storm sewer system which means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) that are:
1. Owned or operated by the federal government, state, municipality, township, county, district(s) or other public body (created by or pursuant to state or federal law) including special district under state law such as a sewer district, flood control district or drainage districts or similar entity or a designated and approved management agency under section 208 of the act that discharges into surface waters of the state; and
 2. Designed or used for collecting or conveying solely storm water,
 3. Which is not a combined sewer and
 4. Which is not a part of a publicly owned treatment works.
- L. "National Pollutant Discharge Elimination System (NPDES)" means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and enforcing pretreatment requirements, under sections 307, 402, 318 and 405 of the CWA. The term includes an "approved program."
- M. "NOI" means notice of intent to be covered by this permit.
- N. "NOT" means notice of termination.
- O. "Operator" means any party associated with a construction project that meets either of the following two criteria:
1. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
 2. The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with an SWP3 for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).
- As set forth in Part II.A, there can be more than one operator at a site and under these circumstances, the operators shall be co-permittees.
- P. "Owner or operator" means the owner or operator of any "facility or activity" subject to regulation under the NPDES program.

Part VII

- Q. "Permanent stabilization" means the establishment of permanent vegetation, decorative landscape mulching, matting, sod, rip rap and landscaping techniques to provide permanent erosion control on areas where construction operations are complete or where no further disturbance is expected for at least one year.
- R. "Percent imperviousness" means the impervious area created divided by the total area of the project site.
- S. "Point source" means any discernible, confined and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or the floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.
- T. "Rainwater and Land Development" is a manual describing construction and post-construction best management practices and associated specifications. A copy of the manual may be obtained by contacting the Ohio Department of Natural Resources, Division of Soil & Water Conservation.
- U. "Riparian area" means the transition area between flowing water and terrestrial (land) ecosystems composed of trees, shrubs and surrounding vegetation which serve to stabilize erodible soil, improve both surface and ground water quality, increase stream shading and enhance wildlife habitat.
- V. "Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.
- W. "Sediment settling pond" means a sediment trap, sediment basin or permanent basin that has been temporarily modified for sediment control, as described in the latest edition of the Rainwater and Land Development manual.
- X. "State isolated wetland permit requirements" means the requirements set forth in Sections 6111.02 through 6111.029 of the ORC.
- Y. "Storm water" means storm water runoff, snow melt and surface runoff and drainage.
- Z. "Surface waters of the state" or "water bodies" means all streams, lakes, reservoirs, ponds, marshes, wetlands or other waterways which are situated wholly or partially within the boundaries of the state, except those private waters which do not combine or effect a junction with natural surface or underground waters. Waters defined as sewerage systems, treatment works or disposal systems in Section 6111.01 of the ORC are not included.

Part VII

- AA. "SWP3" means storm water pollution prevention plan.
- BB. "Temporary stabilization" means the establishment of temporary vegetation, mulching, geotextiles, sod, preservation of existing vegetation and other techniques capable of quickly establishing cover over disturbed areas to provide erosion control between construction operations.
- CC. "Water Quality Volume (WQ_v)" means the volume of storm water runoff which must be captured and treated prior to discharge from the developed site after construction is complete. WQ_v is based on the expected runoff generated by the mean storm precipitation volume from post-construction site conditions at which rapidly diminishing returns in the number of runoff events captured begins to occur.



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix E

Project Notifications



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

To whom it may concern:

Per Allan Richards, I am including this letter with the 10 day ODH notification. Listed on the notification for "name of asbestos hazard abatement supervisor for project" is Keith Bickel # AS23299. His license expired in 1991. On January 5 – 9, 2009 Mr. Bickel took the asbestos supervisor class at TSI, Inc. in Cleveland, Ohio. Upon completion of this class the ODH application along certificate of completion and check were sent in via US Mail on January 9, 2009 and is waiting for ODH approval. If by January 26, 2009 ODH has not approved Mr. Bickel as a CAHAS a 10 day notification revision will be sent in with the new on-site CAHAS supervisor. If there are any questions please call me at 330-388-1921.

Sincerely,
Diamond Environmental, LLC.

A handwritten signature in cursive script that reads "Keith R Bickel".

Keith R. Bickel

Do NOT WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

- Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
- Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
- Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
- Type of notification ☒ original ☐ revision number _____ revised line(s) number _____
☐ emergency ☐ blanket ☐ cancellation
- Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name US ARMY DEPARTMENT OF DEFENCE			
Address 1 ROCK ISLAND ARSENAL		City ROCK ISLAND	State IL
Contact MARK PATTERSON		Contact telephone number (330) 358-7311	
7. License number AC1880		Abatement Contractor PIKA INTERNATIONAL INC.	
Address 12723 CAPRICORN DRIVE, SUITE 500		City STAFFORD	State TX
Contact BRIAN STOCKWELL		Telephone number (330) 358-7135	
8. Certification number 31476 AS 23299		Name of asbestos hazard abatement specialist for project KEITH R. BICKEL	
9. Project information—Building name RAVENNA ARMY AMMUNITION PLANT			
Address 8451 STATE ROUTE 5		City RAVENNA	State OH
Site location (specific) WINCKLEPECK BURNING GROUNDS			
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other DIRT / SOIL			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other FRONT END LOADER / EXCAVATOR			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other WET METHOD			
11. Estimate of asbestos containing material			
linear feet: 7500 CUBIC YARDS		square feet: NA	
12. Abatement dates			
set up 1/19/2009		abatement 1/20/2009	completion (acm work only) 2/20/2009
Hours of operation 6:00 AM TO 4:00 PM			
Days of the week	Monday X	Tuesday X	Wednesday X
		Thursday X	Friday
			Saturday
			Sunday
13. Approved landfill—Name AMERICAN LANDFILL			EPA permit number 02-12954
City 7916 CHAPEL STREET, WAYNESGURG			State OH
			Telephone number 330-866-3265
14. Name of person filing this notice KEITH R. BICKEL			Date 1/2/2009

Do NOT WRITE IN THIS SPACE

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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification: ☐ original ☒ revision number 1 revised line(s) number _____
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet:
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name US ARMY OF DEFENCE			
Address 1 ROCK ISLAND ARSENAL		City ROCK ISLAND	State IL
Contact MARK PATTERSON		Contact telephone number (330) 358-7311	
7. License number AC 1880		Abatement Contractor PIKA INTERNATIONAL, INC	
Address 12723 CAPRICORN DR., Suite 500		City STAFFORD	State TX
Contact BRIAN STOCKWELL		Telephone number (330) 358-7135	
8. Certification number AS 23299		Name of asbestos hazard abatement specialist for project KEITH R. BICKEL	
9. Project information—Building name RAVENNA ARMY AMMUNITION PLANT			
Address 8451 STATE ROUTE 5		City RAVENNA	State OH
Site location (specific) WINKLEPECK BURNING GROUNDS			
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other DIRT / SOIL			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other FRONT END LOADER / EXCAVATOR			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other WET METHOD			
11. Estimate of asbestos containing material			
linear feet 7500 CUBIC YARDS		square feet	
12. Abatement dates			
set up 1-26-09		abatement 1-27-09	
completion 2-27-09		(acm work only)	
Hours of operation 6:00 AM TO 4:00 PM			
Days of the week	Monday	Tuesday	Wednesday
	X	X	X
			X
13. Approved landfill—Name AMERICAN LANDFILL			EPA permit number 02-12954
City 7916 CHAPEL STREET WAYNESBURG			State OH
			Telephone number 330-866-3265
14. Name of person filing this notice KEITH R. BICKEL			Date 1-2-09 original 1-15-09 revision

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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

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2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 2 revised line(s) number _____
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army OF DEFENCE</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 27865</u>		Name of asbestos hazard abatement specialist for project <u>Ehrick Elliott</u>	
9. Project information—Building name <u>RAVENNA Army Ammunition Plant</u>			
Address <u>8451 State Route 5</u>		City <u>Ravenna</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>			
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT / SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>FRONT END loader / Excavator</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>Wet method</u>			
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>		abatement <u>1-27-09</u>	
Hours of operation <u>6:00 Am - 4:00 pm</u>		completion (acm work only) <u>2-27-09</u>	
Days of the week	Monday	Tuesday	Wednesday
	<u>X</u>	<u>X</u>	<u>X</u>
			<u>X</u>
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filing this notice <u>Keith R. Bickel</u>			Date <u>1-26-09</u>

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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 3 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 27865</u>		Name of asbestos hazard abatement specialist for project <u>Enrick Elliott</u>	
		Expiration <u>6-13-09</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>	abatement <u>1-27-09</u>	completion (perm work only) <u>2-27-09</u>	
Hours of operation <u>4:30 AM - 2:30 PM</u>			
Days of the week	Monday	Tuesday	Wednesday
	<u>X</u>	<u>X</u>	<u>X</u>
			<u>X</u>
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filling this notice <u>Keith R. Bickel</u>			Date

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health

Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 4 revised line(s) number 0
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS25205</u>		Name of asbestos hazard abatement specialist for project <u>JOHN D. COEN SR</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (if special) <u>Winklepeck Burning Grounds</u>			
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>	abatement <u>1-27-09</u>	completion (perm work only) <u>2-27-09</u>	
Hours of operation			
Days of the week	Monday <u>4:30-1430</u>	Tuesday <u>4:30-1430</u>	Wednesday <u>430-1430</u>
	Thursday <u>430-1430</u>	Friday	Saturday
	Sunday		
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>		State <u>OH</u>	Telephone number <u>330-866-3265</u>
14. Name of person filing this notice <u>Keith R. Bickel</u>			Date <u>2-3-09</u>

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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

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2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 5 revised line(s) number 8
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>13301358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>13301358-7135</u>	
8. Certification number <u>AS23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader / EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>	abatement <u>1-27-09</u>	completion (perm work only) <u>2-27-09</u>	
Hours of operation			
Days of the week	Monday <u>430-1500</u>	Tuesday <u>430-1500</u>	Wednesday <u>430-1500</u>
	Thursday <u>430-1500</u>	Friday	Saturday
	Sunday		
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filling this notice <u>Keith R. Bickel</u>			Date <u>2-10-09</u>

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 6 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>13301358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (if specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>Front End Loader / EXCAVATOR</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>WET METHOD</u>			
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>		completion (acm work only) <u>2-27-09</u>	
Hours of operation <u>Due to High winds & electrical storms on 2-12-09 we will not work. Will work on 2-13-09. RETURN TO NORMAL WORK SCHEDULE on 2-16-09</u>			
Days of the week <u>Monday 430-1500</u>		<u>Tuesday 430-1500</u>	
<u>Wednesday 430-1500</u>		<u>Thursday 430-1500</u>	
Friday		Saturday	
Sunday			
13. Approved landfill—Name <u>American Landfill</u>			
City <u>7916 Chapel Street, Waynesburg</u>		State <u>OH</u>	
EPA permit number <u>02-12954</u>		Telephone number <u>330-866-3265</u>	
14. Name of person filling this notice <u>Keith R. Bickel</u>		Date <u>2-11-09</u>	

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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

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2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 67 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>13301358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>13301358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH R. BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>Front End Loader / EXCAVATOR</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>WET METHOD</u>			
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>		abatement <u>1-27-09</u>	completion (on work only) <u>3-5-09</u>
Hours of operation			
Days of the week			
Monday <u>430-1500</u>	Tuesday <u>430-1500</u>	Wednesday <u>430-1500</u>	Thursday <u>430-1500</u>
Friday	Saturday	Sunday	
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
14. Name of person filing this notice <u>Keith R. Bickel</u>			Telephone number <u>330-866-3265</u>
			Date

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15275, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 8 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH R. BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA Army AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (if specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet	<u>7500 Cubic Yards</u>		square feet
12. Abatement dates			
set up	<u>1-26-09</u>	abatement	<u>1-27-09</u>
		completion (acm work only)	<u>3-6-09</u>
* Hours of operation <u>NATIONAL GUARD TO USE TEST RANGE NEXT TO DIRT/ SOIL STOCKPILE</u>			
Days of the week	Monday <u>430-1500</u>	Tuesday <u>430-1500</u>	Wednesday <u>*</u>
	Thursday <u>430-1500</u>	Friday <u>430-1500</u>	Saturday <u></u>
	Sunday <u></u>		
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filing this notice <u>Keith R. Bickel (330-388-1921)</u>			Date <u>3-3-09</u>

DO NOT WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☐ revision number 9 revised line(s) number 11 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☐ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA INTERNATIONAL, INC.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>STAFFORD</u>	State <u>TX</u>
Contact <u>BRIDN STOCKWELL</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH R. BICKEL</u>	
Expiration <u>2-3-10</u>			
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 STATE ROUTE 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>WINKLEPECK BURNING GROUNDS</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT / SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>FRONT END LOADER / EXCAVATION</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>WET METHOD</u>			
11. Estimate of asbestos containing material			
linear feet <u>1500 Cubic yards</u>		square feet	
12. Abatement dates			
set up		abatement <u>3-24-09</u>	completion (from work only) <u>3-24-09</u>
Hours of operation			
Days of the week	Monday	Tuesday	Wednesday
			<u>700-1530</u>
Thursday		Friday	Saturday
Sunday			
13. Approved landfill—Name <u>AMERICAN LANDFILL</u>			EPA permit number <u>02-12954</u>
City <u>7916 CHAPEL STREET, WAYNESBURG</u>			State <u>OH</u>
			Telephone number <u>330 866-3265</u>
14. Name of person filing this notice <u>KEITH R. BICKEL (330-388-1921)</u>			Date <u>3-23-09</u>

Ohio Department of Health

Asbestos Hazard Abatement Project Inspection Report

Page 1 of 2

Project Name and Address <i>US Army Dept of Defense 8451 St Rt 5 Ravenna</i>		
Project ID# <i>200873937AR032</i>	Contractor <i>PIKA International</i>	License # <i>AC1880</i>
AHAS Name and Signature of Receipt of Report <i>Tollu Coen John Coen #25205</i>		

Public Health Emergency

Items marked indicate creation of a Public Health Emergency as defined in Chapter 3701-34 of the Ohio Administrative Code (OAC).

- | | |
|---|---|
| <input type="checkbox"/> Unauthorized Dry Removal. | <input type="checkbox"/> Abatement Activities without Containment. |
| <input type="checkbox"/> Abatement Activities without Engineering Controls. | <input type="checkbox"/> Asbestos- Containing Dust or Debris Outside the Contained Work Area. |
| <input type="checkbox"/> Breached Containment. | |

An inspection of your project today has shown the items marked below with an X are not in compliance with Chapter 3701-34-OAC.

1. Prior Notification Owner <input type="checkbox"/> Address <input type="checkbox"/> Contact Person <input type="checkbox"/> Telephone Number Abatement Contractor <input type="checkbox"/> Address <input type="checkbox"/> Telephone Number Project Site <input type="checkbox"/> County <input type="checkbox"/> City <input type="checkbox"/> Street Address <input type="checkbox"/> Site Location (specific) Abatement Specialist <input type="checkbox"/> Same as on Prior Notification <input type="checkbox"/> On Site Dates and Hours <input type="checkbox"/> Set Up Date <input type="checkbox"/> Abatement Date <input type="checkbox"/> Completion Date <input type="checkbox"/> Hours of Operation <input type="checkbox"/> Days of Operation Estimate of ACM <input type="checkbox"/> Linear Footage <input type="checkbox"/> Square Footage	3. Signs and Labels <input type="checkbox"/> Warning Signs at all points of entrance <input type="checkbox"/> "Danger" Signs posted during loading of waste <input type="checkbox"/> "Warning" Labels on each leak-tight container <input type="checkbox"/> Generator Labels on outer container 4. Worker Protection and Hygiene <input type="checkbox"/> Respirators used by all employees entering regulated area <input type="checkbox"/> Fit check each time the respirator is donned <input type="checkbox"/> Protective clothing used <input type="checkbox"/> All street clothing left in clean room <input type="checkbox"/> Work Suits/Protective Clothing intact <input type="checkbox"/> Non-disposable clothing brought out of contained work area in sealed impermeable labeled bag <input type="checkbox"/> Showers used by all employees <input type="checkbox"/> Soap available <input type="checkbox"/> Hot and Cold Water <input type="checkbox"/> No smoking, eating or drinking in contained work area 5. Glove Bag Work <input type="checkbox"/> Smoke tested for leaks prior to use <input type="checkbox"/> Used only once and not moved <input type="checkbox"/> Collapsed used a HEPA vacuum prior to disposal <input type="checkbox"/> Performed by at least two persons <input type="checkbox"/> Not used on surface exceeding 150°F <input type="checkbox"/> Adjacent loose and friable material wrapped in two layers of 6-mil plastic <input type="checkbox"/> Three stage decontamination area or two stage with remote shower <input type="checkbox"/> Dropcloth beneath glove bag	6. Contained Work Areas <input type="checkbox"/> Critical barriers/preseals over all openings <input type="checkbox"/> HVAC sealed with two layers 6-mil plastic <input type="checkbox"/> All objects within the area covered with plastic sheeting and secured with tape <input type="checkbox"/> Impermeable dropcloths beneath all removal activities <input type="checkbox"/> Three stage decontamination area or two stage with remote shower <input type="checkbox"/> Minimum of -0.02 inches of water column pressure differential relative to outside pressure <input type="checkbox"/> Containment smoke tested for leaks prior to the beginning of each shift <input type="checkbox"/> Electrical circuits deactivated unless equipped with ground-fault circuit interrupters 7. Repair and Encapsulation <input type="checkbox"/> Work conducted within a regulated area 8. Disposal <input type="checkbox"/> Prompt clean up <input type="checkbox"/> Waste placed in impermeable leak-tight containers 9. Air Monitoring <input type="checkbox"/> Work area adequately cleaned up prior to clearance air sampling <input type="checkbox"/> Clearance or environmental air monitoring performed by a certified AHES, AAMT, CIH or IHIT <input type="checkbox"/> Clearance sampling by a minimum of three samples analyzed by PCM <input type="checkbox"/> Clearance sampling by TEM conducted in accordance with 40 C.F.R. Part 763, Subpart E, Appendix A <input type="checkbox"/> Personal air monitoring conducted by OSHA competent person
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Remarks
Project is removal of transite contaminated dirt from old buildings that were burned. The soil had been scraped from a field and piled. The piled materials are loaded into large lined dump trucks and the liners are sealed and labeled and taken to an asbestos landfill.

Inspector <i>Allan J. Richards</i>	Date of inspection <i>02/04/09</i>	Time of inspection <i>1217</i>
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Ohio Department of Health

Asbestos Project Certification and Records Log

Page 2 of 2

Name	Certification Number	Certification		Physical		Fit Test		Replacement Card Requested
		Missing	Expired	Missing	Expired	Missing	Expired	
John Coen Sr	AS25205							
Chauncey Porter	WH521908							
Jerome Johnson	WH521935							
Larry Pollard	WH521909							
David Albertson	WH521931							

Remarks

Asbestos Hazard Abatement Project Inspection Report

Page 1 of 2

Project Name and Address <i>US Army Dept of Defense 8451 St Rt 5 Ravenna</i>		
Project ID# <i>200973937AR042</i>	Contractor <i>PIHA International</i>	License # <i>AC1880</i>
AHAS Name and Signature of Receipt of Report <i>Keith Bickel AS 2329</i>		

Public Health Emergency

Items marked indicate creation of a Public Health Emergency as defined in Chapter 3701-34 of the Ohio Administrative Code (OAC).

☐ Unauthorized Dry Removal.☐ Abatement Activities without Engineering Controls.☐ Breached Containment.☐ Abatement Activities without Containment.☐ Asbestos-Containing Dust or Debris Outside the Contained Work Area.

An inspection of your project today has shown the items marked below with an X are not in compliance with Chapter 3701-34-OAC.

1. Prior Notification Owner <input type="checkbox"/> Address <input type="checkbox"/> Contact Person <input type="checkbox"/> Telephone Number Abatement Contractor <input type="checkbox"/> Address <input type="checkbox"/> Telephone Number Project Site <input type="checkbox"/> County <input type="checkbox"/> City <input type="checkbox"/> Street Address <input type="checkbox"/> Site Location (specific) Abatement Specialist <input type="checkbox"/> Same as on Prior Notification <input type="checkbox"/> On Site Dates and Hours <input type="checkbox"/> Set Up Date <input type="checkbox"/> Abatement Date <input type="checkbox"/> Completion Date <input type="checkbox"/> Hours of Operation <input type="checkbox"/> Days of Operation Estimate of ACM <input type="checkbox"/> Linear Footage <input type="checkbox"/> Square Footage 2. Certification and Records, On Site <input type="checkbox"/> Current copy of Contractor License <input type="checkbox"/> Copy of ODH Project Agreement <input checked="" type="checkbox"/> Current Certification Card <input checked="" type="checkbox"/> Current Medical Exam <input checked="" type="checkbox"/> Current Respirator Fit Test * If item is marked, see the attached log sheet	3. Signs and Labels <input type="checkbox"/> Warning Signs at all points of entrance <input type="checkbox"/> "Danger" Signs posted during loading of waste <input type="checkbox"/> "Warning" Labels on each leak-tight container <input type="checkbox"/> Generator Labels on outer container 4. Worker Protection and Hygiene <input type="checkbox"/> Respirators used by all employees entering regulated area <input type="checkbox"/> Fit check each time the respirator is donned <input type="checkbox"/> Protective clothing used <input type="checkbox"/> All street clothing left in clean room <input type="checkbox"/> Work Suits/Protective Clothing intact <input type="checkbox"/> Non-disposable clothing brought out of contained work area in sealed impermeable labeled bag <input type="checkbox"/> Showers used by all employees <input type="checkbox"/> Soap available <input type="checkbox"/> Hot and Cold Water <input type="checkbox"/> No smoking, eating or drinking in contained work area 5. Glove Bag Work <input type="checkbox"/> Smoke tested for leaks prior to use <input type="checkbox"/> Used only once and not moved <input type="checkbox"/> Collapsed used a HEPA vacuum prior to disposal <input type="checkbox"/> Performed by at least two persons <input type="checkbox"/> Not used on surface exceeding 150°F <input type="checkbox"/> Adjacent loose and friable material wrapped in two layers of 6-mil plastic <input type="checkbox"/> Three stage decontamination area or two stage with remote shower <input type="checkbox"/> Dropcloth beneath glove bag	6. Contained Work Areas <input type="checkbox"/> Critical barriers/preseals over all openings <input type="checkbox"/> HVAC sealed with two layers 6-mil plastic <input type="checkbox"/> All objects within the area covered with plastic sheeting and secured with tape <input type="checkbox"/> Impermeable dropcloths beneath all removal activities <input type="checkbox"/> Three stage decontamination area or two stage with remote shower <input type="checkbox"/> Minimum of -0.02 inches of water column pressure differential relative to outside pressure <input type="checkbox"/> Containment smoke tested for leaks prior to the beginning of each shift <input type="checkbox"/> Electrical circuits deactivated unless equipped with ground-fault circuit interrupters 7. Repair and Encapsulation <input type="checkbox"/> Work conducted within a regulated area 8. Disposal <input type="checkbox"/> Prompt clean up <input type="checkbox"/> Waste placed in impermeable leak-tight containers 9. Air Monitoring <input type="checkbox"/> Work area adequately cleaned up prior to clearance air sampling <input type="checkbox"/> Clearance or environmental air monitoring performed by a certified AHES, AAMT, CIH or IHIT <input type="checkbox"/> Clearance sampling by a minimum of three samples analyzed by PCM <input type="checkbox"/> Clearance sampling by TEM conducted in accordance with 40 C.F.R. Part 763, Subpart E, Appendix A <input type="checkbox"/> Personal air monitoring conducted by OSHA competent person
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Remarks

Inspector

Allen H. Richards

Date of inspection

02/11/09

Time of inspection

1227

Ohio Department of Health

Page 2 of 2[illegible][illegible]

Project ID#	Inspector
200973973AR042	Allen H. Richards

Inspector
Allen H. Richards

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☒ Original ☒ Revised ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)

Building Name: Ravenna Army Ammunition Plant

Address: 8451 State Route 5

City: Ravenna State: OHIO Zip Code: 44266 County: Portage

Site Location (specific): Winklepeck Burning Grounds

Building Size (square feet): NA - Soil Stockpile # of Floors: NA Age in Years: NA

Present Use: MK19 Machine Gun Range Prior Use: Demil. Operations

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: US Army Dept. of Defense

Address: 1 Rock Island Arsenal

City: Rock Island State: IL Zip Code: 61299

Contact: Mark Patterson Telephone: (330) 358-7311 Fax: (330) 358-7314

Removal Contractor Name: PIKA International, Inc. License # _____

Address: 12723 Capricorn Drive Suite 500

City: Stafford, TX State: TX Zip Code: 77477

Contact: Brian Stockwell Telephone: (330) 358-7135 Fax: (330) 358-2924

Other Operator (demolition/general): NA License # NA

Address: NA

City: NA State: NA Zip Code: NA

Contact: NA Telephone: () NA Fax: () NA

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

Ohio Asbestos Hazard Evaluation Specialist: Keith R Bickel 31476

Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>7500 67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: 01-20-09 Complete: 2-26-09

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 01-20-09 Complete: 02-20-09 2-26-09

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>6AM-4PM</u>	<u>6AM-4PM</u>	<u>6AM-4PM</u>	<u>6AM-4PM</u>			

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION

Page 2 of 2

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:
LOADING OF DIRT MATERIAL BY MEANS OF HEAVY MACHINERY TO ROLL OFF DUMPSTERS. LOADING PERFORMED WET TO PREVENT VISIBILE EMISSIONS.

XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures: **TYVEK SUITS, RESPIRATORS, WORKERS ON-SITE TO LINE TRAILERS, FRONT END LOADER, WET METHOD FOR DIRT**

XII. Waste Transporter #1

Name: **BDB Trucking**
Address: **1617 Warren Avenue**
City: **Miles** State: **OH** Zip Code: **44446**
Contact: **Chuck Trimbur** Telephone: **(330) 482-9073** Fax: **(330) 482-9407**
Waste Transporter #2
Name: **ext. 121**

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Contact: _____ Telephone: () _____ Fax: () _____

XIII. Waste Disposal

Name: **American Landfill**
Address: **7916 Chapel Street**
City: **Waynesburg** State: **OH** Zip Code: **44688**
Contact: **Eric Robison** Telephone: **(330) 866-3265** Fax: **(330) 866-3709**

XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. **MAKE SURE MATERIAL IS WET. UTILIZE CURRENT REMOVABLE METHODS OF SOIL.**

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

Keith R Bickel **1-2-09** **Keith R. Bickel CAHAS**
Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.

Keith R Bickel **1-2-09** **Keith R. Bickel CAHAS**
Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 2 ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)
 Building Name: RAVENNA ARMY AMMUNITION PLANT
 Address: 8451 STATE ROUTE 5
 City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE
 Site Location (specific): WINKLE PECK BURNING GROUNDS
 Building Size (square feet): N/A - SOIL STOCKPILE # of Floors: N/A Age in Years: N/A
 Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information
 Owner Name: US ARMY DEPARTMENT OF DEFENSE
 Address: 1 ROCK ISLAND
 City: ROCK ISLAND State: IL Zip Code: 61299
 Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314
 Removal Contractor Name: PIKA International, Inc. License # AC1880
 Address: 12723 Capricorn Drive Suite 500
 City: STAFFORD State: TX Zip Code: 77477
 Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924
 Other Operator (demolition/general): n/a License # n/a
 Address: n/a
 City: n/a State: n/a Zip Code: n/a
 Contact: n/a Telephone: () n/a Fax: () n/a

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: Random sampling of suspect material. EPA 600/R-93/116 for analysis.

Ohio Asbestos Hazard Evaluation Specialist: Keith R. Bickel 31476
 Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 1-26-09 Complete: 2-27-09

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>6am-4pm</u>	<u>6am-4pm</u>	<u>6am-4pm</u>	<u>6am-4pm</u>			

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

- X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

loading of dirt/soil material by means of heavy machinery to dump trucks. loading of wet material to prevent visible emissions.

- XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:** Tyvek suits, respirators, workers on-site to line trailers. Front end loaders/excavators to load trailers. wet method for dirt/soil.

XII. Waste Transporter #1

Name: BDB Trucking
Address: 1617 Warren Ave
City: Ailes State: OH Zip Code: 44446
Contact: Chuck Trimbauer Telephone: (330) 482-9073 Fax: (330) 482-9407
ext. 121

Waste Transporter #2

Name: N/A
Address: _____
City: _____ State: _____ Zip Code: _____
Contact: _____ Telephone: () Fax: ()

XIII. Waste Disposal

Name: American Landfill
Address: 7916 Chapel Street
City: Waynesburg State: OH Zip Code: 44688
Contact: Eric Robinson Telephone: (330) 860-3265 Fax: (330) 860-3709

XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: N/A Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. make sure material is wet. Utilize current removal methods of soil.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

Keith R Bickel 1-16-09 revision
Signature of Owner/Operator Date Type or Print Name and Title
1-2-09 original Keith R. Bickel

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.

Keith R Bickel 1-16-09 revision
Signature of Owner/Operator Date Type or Print Name and Title
1-2-09 original Keith R. Bickel

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 3 ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)
 Building Name: RAVENNA ARMY AMMUNITION PLANT
 Address: 8451 STATE ROUTE 5
 City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE
 Site Location (specific): WINKLEPECK BURNING GROUNDS
 Building Size (square feet): N/A - SOIL STOCKPILE # of Floors: N/A Age in Years: N/A
 Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information
 Owner Name: US ARMY DEPARTMENT OF DEFENSE
 Address: 1 ROCK ISLAND
 City: ROCK ISLAND State: IL Zip Code: 61299
 Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314
 Removal Contractor Name: PIKA INTERNATIONAL, INC License # AC1880
 Address: 12723 CAPRICORN DRIVE SUITE 500
 City: STAFFORD State: TX Zip Code: 77477
 Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924
 Other Operator (demolition/general): N/A License # N/A
 Address: N/A
 City: N/A State: N/A Zip Code: N/A
 Contact: N/A Telephone: () N/A Fax: () N/A

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: RANDOM SAMPLING OF SUSPECT MATERIAL, EPA 600/R-93/116 for analysis

Ohio Asbestos Hazard Evaluation Specialist: Keith R. Bickel ES 31476
 Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>4:30 AM - 2:30 PM</u>	<u>4:30 AM - 2:30 PM</u>	<u>4:30 AM - 2:30 PM</u>	<u>4:30 AM - 2:30 PM</u>			

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

- X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

Loading of dirt/soil material by means of heavy machinery to dump trucks. Loading of wet material to prevent visible emissions

- XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:** Tyvek suits, HEPA Respirators. Workers on-site to line trailers and cover material. Front end loaders/excavators to load trailers. Wet method for dirt/soil.

XII. Waste Transporter #1

Name: BDB Trucking

Address: 11617 Warren Ave

City: Niles

State: OH

Zip Code: 44146

Contact: Chuck Trimbauer

Telephone: (330) 482-9073

Fax: (330) 482-9407

Waste Transporter #2

Name: N/A

Address: _____

City: _____

State: _____

Zip Code: _____

Contact: _____

Telephone: ()

Fax: ()

XIII. Waste Disposal

Name: AMERICAN LANDFILL

Address: 7916 Chapel Street

City: WAYNESBURG

State: OH

Zip Code: 44688

Contact: ERIC ROBINSON

Telephone: (330) 866-3265

Fax: (330) 866-3709

XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.

2. Name of Authority Issuing Order: N/A

Title: _____

3. Authority of Order (Citation of Code): _____

4. Date of Order (MM/DD/YY): _____

Date Ordered to Begin: _____

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.)

1. Date and Hour of the Emergency

2. Description of the Sudden, Unexpected Event

3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. MAKE SURE MATERIAL IS WET. UTILIZE current removal methods of soil.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

Signature of Owner/Operator

Date

Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.

Signature of Owner/Operator

Date

Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 3A ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)
 Building Name: RAVENNA ARMY AMMUNITION PLANT
 Address: 8451 STATE ROUTE 5
 City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE
 Site Location (specific): WINKLEPECK BURNING GROUNDS
 Building Size (square feet): N/A - Soil Stockpile # of Floors: N/A Age in Years: N/A
 Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information
 Owner Name: US ARMY DEPARTMENT OF DEFENSE
 Address: 1 ROCK ISLAND
 City: ROCK ISLAND State: IL Zip Code: 61299
 Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314
 Removal Contractor Name: PIKA INTERNATIONAL, INC License # AC1880
 Address: 12723 CAPRICORN DRIVE SUITE 500
 City: STAFFORD State: TX Zip Code: 77477
 Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924
 Other Operator (demolition/general): N/A License # N/A
 Address: N/A
 City: N/A State: N/A Zip Code: N/A
 Contact: N/A Telephone: () N/A Fax: () N/A

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: RANDOM Sampling of suspect material, EPA 600/R-93/116 for analysis

Ohio Asbestos Hazard Evaluation Specialist: Keith R. Bickel ES 31476
 Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: ~~2-26-09~~ 1-26-09 Complete: 2-27-09

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>430-230 pm</u>	<u>430 am 230 pm</u>	<u>430 am 230 pm</u>	<u>430 am 230 pm</u>			

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

- X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

Loading of dirt/soil material by means of heavy machinery to dump trucks. Loading of wet material to prevent visible emissions

- XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:** Tyvek suits, HEPA Respirators. Workers on-site to line trailers and cover material. Front end loaders/excavators to load trailers. Wet method for dirt/soil.

XII. Waste Transporter #1

Name: BDB Trucking

Address: 11417 Warren Ave

City: Dules

State: OH

Zip Code: 44446

Contact: Chuck Trimbler

Telephone: (330) 482-9073

Fax: (330) 482-9407

Waste Transporter #2

Name: N/A

Address: _____

City: _____

State: _____

Zip Code: _____

Contact: _____

Telephone: ()

Fax: ()

XIII. Waste Disposal

Name: AMERICAN LANDFILL

Address: 7916 Chapel Street

City: WAYNESBURG

State: OH

Zip Code: 44688

Contact: ERIC ROBINSON

Telephone: (330) 866-3265

Fax: (330) 866-3709

XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.

2. Name of Authority Issuing Order: N/A

Title: _____

3. Authority of Order (Citation of Code): _____

4. Date of Order (MM/DD/YY): _____

Date Ordered to Begin: _____

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.)

1. Date and Hour of the Emergency

2. Description of the Sudden, Unexpected Event

3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. MAKE SURE MATERIAL IS WET. UTILIZE Current removal methods of soil.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

Keith R Bickel

2-2-08

Keith R. Bickel CAHAS

Signature of Owner/Operator

Date

Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.

Keith R Bickel

2-2-08

Keith R. Bickel CAHAS

Signature of Owner/Operator

Date

Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 41 ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)
 Building Name: RAVENNA ARMY AMMUNITION PLANT
 Address: 8451 STATE ROUTE 5
 City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE
 Site Location (specific): WINKLEPECK BURNING GROUNDS
 Building Size (square feet): N/A - Soil Stockpile # of Floors: N/A Age in Years: N/A
 Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information
 Owner Name: US ARMY DEPARTMENT OF DEFENSE
 Address: 1 ROCK ISLAND
 City: ROCK ISLAND State: IL Zip Code: 61299
 Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314
 Removal Contractor Name: PIKA INTERNATIONAL, INC License # AC1880
 Address: 12723 CAPRICORN DRIVE SUITE 500
 City: STAFFORD State: TX Zip Code: 77477
 Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924
 Other Operator (demolition/general): N/A License # N/A
 Address: N/A
 City: N/A State: N/A Zip Code: N/A
 Contact: N/A Telephone: () N/A Fax: () N/A

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: RANDOM SAMPLING OF SUSPECT MATERIAL, EPA 600/R-93/116 FOR ANALYSIS

Ohio Asbestos Hazard Evaluation Specialist: Kerth R. Bickel ES 31476
 Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: ~~1-26-09~~ Complete: ~~2-26-09~~

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 1-26-09 Complete: 2-26-09

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>430-1500</u>	<u>430-1500</u>	<u>X</u>	<u>430-1500</u>	<u>430-1500</u>		

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components: <u>Loading of dirt/soil material by means of heavy machinery to dump trucks. Loading of wet material to prevent visible emissions</u>
XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures: <u>Tyvek suits, HEPA Respirators. Workers on-site to line trailers and cover material. Front end loaders/excavators to load trailers. Wet method for dirt/sal.</u>
XII. Waste Transporter #1 Name: <u>BDB Trucking</u> Address: <u>11617 Warren Ave.</u> City: <u>Niles</u> State: <u>OH</u> Zip Code: <u>44114</u> Contact: <u>Chuck Trimbur</u> Telephone: <u>(330) 482-9073</u> Fax: <u>(330) 482-9407</u> Waste Transporter #2 Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip Code: _____ Contact: _____ Telephone: () Fax: ()
XIII. Waste Disposal Name: <u>AMERICAN LANDFILL</u> Address: <u>7916 Chapel Street</u> City: <u>WAYNESBURG</u> State: <u>OH</u> Zip Code: <u>44688</u> Contact: <u>ERIC ROBINSON</u> Telephone: <u>(330) 866-3265</u> Fax: <u>(330) 866-3709</u>
XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.) 1. Attach a copy of the Order to this notice. 2. Name of Authority Issuing Order: <u>N/A</u> Title: _____ 3. Authority of Order (Citation of Code): _____ 4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____
XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.) 1. Date and Hour of the Emergency _____ 2. Description of the Sudden, Unexpected Event _____ 3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden. _____
XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. <u>MAKE SURE MATERIAL IS WET - UTILIZE Current removal methods of soil.</u>
XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours. <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div style="width: 30%;">Signature of Owner/Operator: <u>Keith R. Bickel</u></div><div style="width: 20%;">Date: <u>1-2-09</u> <u>2-11-09</u></div><div style="width: 40%;">Type or Print Name and Title: <u>Keith R. Bickel</u> <u>CAHAS</u></div></div>
XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete. <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div style="width: 30%;">Signature of Owner/Operator: <u>Keith R. Bickel</u></div><div style="width: 20%;">Date: <u>1-2-09</u> <u>2-11-09</u></div><div style="width: 40%;">Type or Print Name and Title: <u>Keith R. Bickel</u> <u>CAHAS</u></div></div>
<small>Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)</small>

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 5 ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)
 Building Name: RAVENNA ARMY AMMUNITION PLANT
 Address: 8451 STATE ROUTE 5
 City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE
 Site Location (specific): WINKLEPECK BURNING GROUNDS
 Building Size (square feet): N/A - Soil Stockpile # of Floors: N/A Age in Years: N/A
 Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information
 Owner Name: US ARMY DEPARTMENT OF DEFENSE
 Address: 1 ROCK ISLAND
 City: ROCK ISLAND State: IL Zip Code: 61299
 Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314
 Removal Contractor Name: PIKA INTERNATIONAL, INC License # AC1880
 Address: 12723 CAPRICORN DRIVE SUITE 500
 City: STAFFORD State: TX Zip Code: 77477
 Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924
 Other Operator (demolition/general): N/A License # N/A
 Address: N/A
 City: N/A State: N/A Zip Code: N/A
 Contact: N/A Telephone: () N/A Fax: () N/A

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: RANDOM SAMPLING OF SUSPECT MATERIAL, EPA 600/R-93/116 for analysis

Ohio Asbestos Hazard Evaluation Specialist: Kerth R. Bickel ES 31476
 Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 1-26-09 Complete: 2-26-09

Days of the Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>430-1500</u>	<u>430-1500</u>	<u>430-1500</u>	<u>430-1500</u>			

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components: <u>Loading of dirt/soil material by means of heavy machinery to dump trucks. Loading of wet material to prevent visible emissions</u>
XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures: <u>Tyvek suits, HEPA Respirators. Workers on-site to line trailers and cover material. Front end loaders/excavators to load trailers. Wet method for dirt/sail.</u>
XII. Waste Transporter #1 Name: <u>BDB Trucking</u> Address: <u>11417 Warren Ave.</u> City: <u>Niles</u> State: <u>OH</u> Zip Code: <u>44146</u> Contact: <u>Chuck Trimbur</u> Telephone: <u>(330) 482-9073</u> Fax: <u>(330) 482-9407</u> Waste Transporter #2 Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip Code: _____ Contact: _____ Telephone: () Fax: ()
XIII. Waste Disposal Name: <u>AMERICAN LANDFILL</u> Address: <u>7916 Chapel Street</u> City: <u>WAYNESBURG</u> State: <u>OH</u> Zip Code: <u>44688</u> Contact: <u>ERIC ROBINSON</u> Telephone: <u>(330) 866-3265</u> Fax: <u>(330) 866-3709</u>
XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.) 1. Attach a copy of the Order to this notice. 2. Name of Authority Issuing Order: <u>N/A</u> Title: _____ 3. Authority of Order (Citation of Code): _____ 4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____
XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.) 1. Date and Hour of the Emergency 2. Description of the Sudden, Unexpected Event 3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.
XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. <u>MAKE SURE MATERIAL IS WET. UTILIZE current removal methods of soil.</u>
XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours. <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div style="width: 30%;"><u>Keith R. Bickel</u> Signature of Owner/Operator</div><div style="width: 15%;"><u>1-2-09</u> Date</div><div style="width: 55%;"><u>Keith R. Bickel</u> <u>CAHAS</u> Type or Print Name and Title</div></div>
XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete. <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div style="width: 30%;"><u>Keith R. Bickel</u> Signature of Owner/Operator</div><div style="width: 15%;"><u>1-2-09</u> Date</div><div style="width: 55%;"><u>Keith R. Bickel</u> <u>CAHAS</u> Type or Print Name and Title</div></div>
<small>Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)</small>

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 6 ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)
 Building Name: RAVENNA ARMY AMMUNITION PLANT
 Address: 8451 STATE ROUTE 5
 City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE
 Site Location (specific): WINKLEPECK BURNING GROUNDS
 Building Size (square feet): N/A - Soil Stockpile # of Floors: N/A Age in Years: N/A
 Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information
 Owner Name: US ARMY DEPARTMENT OF DEFENSE
 Address: 1 ROCK ISLAND
 City: ROCK ISLAND State: IL Zip Code: 61299
 Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314
 Removal Contractor Name: PIKA INTERNATIONAL, INC License # AC1880
 Address: 12723 CAPRICORN DRIVE SUITE 500
 City: STAFFORD State: TX Zip Code: 77477
 Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924
 Other Operator (demolition/general): N/A License # N/A
 Address: N/A
 City: N/A State: N/A Zip Code: N/A
 Contact: N/A Telephone: () N/A Fax: () N/A

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: RANDOM SAMPLING OF SUSPECT MATERIAL, EPA 600/R-93/116 FOR ANALYSIS

Ohio Asbestos Hazard Evaluation Specialist: Kerth R. Bickel ES 31476
 Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>67,500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: 1-26-09 Complete: 3-5-09

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	<u>430-1500</u>	<u>430-1500</u>	<u>430-1500</u>	<u>430-1500</u>			

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:

Loading of dirt/soil material by means of heavy machinery to dump trucks. Loading of wet material to prevent visible emissions

XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures: Tyvek suits, HEPA Respirators. Workers on-site to line trailers and cover material. Front end loaders/excavators to load trailers. Wet method for dirt/sal.

XII. Waste Transporter #1

Name: BDB Trucking

Address: 11617 Warren Ave.

City: Niles

State: OH

Zip Code: 44146

Contact: Chuck Trimbur

Telephone: (330) 482-9073

Fax: (330) 482-9407

Waste Transporter #2

Name: N/A

Address: _____

City: _____

State: _____

Zip Code: _____

Contact: _____

Telephone: () _____

Fax: () _____

XIII. Waste Disposal

Name: AMERICAN LANDFILL

Address: 7916 Chapel Street

City: WAYNESBURG

State: OH

Zip Code: 44688

Contact: ERIC ROBINSON

Telephone: (330) 866-3265

Fax: (330) 866-3709

XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.

2. Name of Authority Issuing Order: N/A

Title: _____

3. Authority of Order (Citation of Code): _____

4. Date of Order (MM/DD/YY): _____

Date Ordered to Begin: _____

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.)

1. Date and Hour of the Emergency

2. Description of the Sudden, Unexpected Event

3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. MAKE SURE MATERIAL IS WET - UTILIZE current removal methods of soil.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

Keith R. Bickel

1-2-09

3-2-09

Keith R. Bickel

CAHAS

Signature of Owner/Operator

Date

Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.

Keith R. Bickel

1-2-09
3-2-09

Keith R. Bickel

CAHAS

Signature of Owner/Operator

Date

Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 1 of 2

Operator Project #	Postmark	Date Received	Notification #
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I. Type of Notification (check one): ☐ Original ☒ Revised 7 ☐ Canceled

II. Facility Description (include building name, number, and floor or room number)

Building Name: RAVENNA ARMY AMMUNITION PLANT

Address: 8451 STATE ROUTE 5

City: RAVENNA State: OHIO Zip Code: 44266 County: PORTAGE

Site Location (specific): WINKLE PECK BURNING GROUNDS

Building Size (square feet): N/A - STOCK PILE (SOIL) # of Floors: N/A Age in Years: N/A

Present Use: MK19 MACHINE GUN RANGE Prior Use: DEMILITARY OPERATIONS

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: US Army DEPARTMENT OF DEFENSE

Address: 1 ROCK ISLAND

City: ROCK ISLAND State: IL Zip Code: 61299

Contact: MARK PATTERSON Telephone: (330) 358-7311 Fax: (330) 358-7314

Removal Contractor Name: PIKA INTERNATIONAL, INC License # AC 1880

Address: 12723 CAPRICORN DRIVE SUITE 500

City: STAFFORD State: TX Zip Code: 77477

Contact: BRIAN STOCKWELL Telephone: (330) 358-7135 Fax: (330) 358-2924

Other Operator (demolition/general): N/A License # N/A

Address: N/A

City: N/A State: N/A Zip Code: N/A

Contact: N/A Telephone: () N/A Fax: () N/A

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM: RANDOM Sampling of suspect material. EPA 600/R-93/116 for analysis

Ohio Asbestos Hazard Evaluation Specialist: Keith R. Bickel ES 31476

Name Certification #

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)					
Facility Components (cubic feet)	<u>1500</u>				

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 3-24-09 Complete: 3-24-09

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:			<u>700-1530</u>				

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION**

Page 2 of 2

X.	Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components: <u>LOADING of dirt/soil material by means of heavy machinery to dump trucks. Loading of material wet to prevent visible emissions.</u>
XI.	Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures: <u>Tyvek suits, HEPA Respirators workers on-site to line trailers and cover material. Front end loader's and or excavators to load trailers. wet method for soil/dirt.</u>
XII.	Waste Transporter #1 Name: <u>BDB Trucking</u> Address: <u>1617 Warren Ave</u> City: <u>Ailes</u> State: <u>OH</u> Zip Code: <u>44446</u> Contact: <u>Chuck Trimbur</u> Telephone: <u>(330) 482-9073</u> Fax: <u>(330) 482-9407</u> Waste Transporter #2 Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip Code: _____ Contact: _____ Telephone: () Fax: ()
XIII.	Waste Disposal Name: <u>American Landfill</u> Address: <u>7916 Chapel Street</u> City: <u>Waynesburg</u> State: <u>OH</u> Zip Code: <u>44688</u> Contact: <u>Eric Robinson</u> Telephone: <u>(330) 866-3265</u> Fax: <u>(330) 866-3709</u>
XIV.	Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.) 1. Attach a copy of the Order to this notice. 2. Name of Authority Issuing Order: <u>N/A</u> Title: _____ 3. Authority of Order (Citation of Code): _____ 4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____
XV.	Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.) 1. Date and Hour of the Emergency 2. Description of the Sudden, Unexpected Event 3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.
XVI.	Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. <u>make sure material is wet. Utilize current removal methods of soil.</u>
XVII.	I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours. <u>Keith R. Bickel</u> <u>3-23-09</u> <u>Keith R. Bickel</u> <u>CAHAS</u> Signature of Owner/Operator Date Type or Print Name and Title
XVIII.	I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete. <u>Keith R. Bickel</u> <u>3-23-09</u> <u>Keith R. Bickel</u> <u>CAHAS</u> Signature of Owner/Operator Date Type or Print Name and Title
Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)	

Do NOT WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

- Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
- Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
- Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
- Type of notification ☒ original ☐ revision number _____ revised line(s) number _____
☐ emergency ☐ blanket ☐ cancellation
- Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name US ARMY DEPARTMENT OF DEFENCE			
Address 1 ROCK ISLAND ARSENAL		City ROCK ISLAND	State IL
Contact MARK PATTERSON		Contact telephone number (330) 358-7311	
7. License number AC1880		Abatement Contractor PIKA INTERNATIONAL INC.	
Address 12723 CAPRICORN DRIVE, SUITE 500		City STAFFORD	State TX
Contact BRIAN STOCKWELL		Telephone number (330) 358-7135	
8. Certification number 31476 AS 23299		Name of asbestos hazard abatement specialist for project KEITH R. BICKEL	
9. Project information—Building name RAVENNA ARMY AMMUNITION PLANT		Expiration 10/21/2009	
Address 8451 STATE ROUTE 5		City RAVENNA	State OH
Site location (specific) WINCKLEPECK BURNING GROUNDS		County PORTAGE	
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other DIRT / SOIL			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other FRONT END LOADER / EXCAVATOR			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other WET METHOD			
11. Estimate of asbestos containing material			
linear feet: 7500 CUBIC YARDS		square feet: NA	
12. Abatement dates			
set up 1/19/2009		abatement 1/20/2009	
completion (acm work only) 2/20/2009		Hours of operation 6:00 AM TO 4:00 PM	
Days of the week	Monday	Tuesday	Wednesday
	X	X	X
			X
13. Approved landfill—Name AMERICAN LANDFILL			EPA permit number 02-12954
City 7916 CHAPEL STREET, WAYNESGURG			State OH
Telephone number 330-866-3265			
14. Name of person filing this notice KEITH R. BICKEL			Date 1/2/2009

Do NOT WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification: ☐ original ☒ revision number 1 revised line(s) number _____
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet:
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name US ARMY OF DEFENCE			
Address 1 ROCK ISLAND ARSENAL		City ROCK ISLAND	State IL
Contact MARK PATTERSON		Contact telephone number (330) 358-7311	
7. License number AC 1880		Abatement Contractor PIKA INTERNATIONAL, INC	
Address 12723 CAPRICORN DR., Suite 500		City STAFFORD	State TX
Contact BRIAN STOCKWELL		Telephone number (330) 358-7135	
8. Certification number AS 23299		Name of asbestos hazard abatement specialist for project KEITH R. BICKEL	
9. Project information—Building name RAVENNA ARMY AMMUNITION PLANT			
Address 8451 STATE ROUTE 5		City RAVENNA	State OH
Site location (specific) WINKLEPECK BURNING GROUNDS			
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other DIRT / SOIL			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other FRONT END LOADER / EXCAVATOR			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other WET METHOD			
11. Estimate of asbestos containing material			
linear feet 7500 CUBIC YARDS		square feet	
12. Abatement dates			
set up 1-26-09		abatement 1-27-09	
Hours of operation 6:00 AM TO 4:00 PM		completion (acm work only) 2-27-09	
Days of the week	Monday	Tuesday	Wednesday
	X	X	X
			X
13. Approved landfill—Name AMERICAN LANDFILL			EPA permit number 02-12954
City 7916 CHAPEL STREET WAYNESBURG			State OH
			Telephone number 330-866-3265
14. Name of person filing this notice KEITH R. BICKEL			Date 1-2-09 original 1-15-09 revision

Do NOT WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 2 revised line(s) number _____
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army OF DEFENCE</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 27865</u>		Name of asbestos hazard abatement specialist for project <u>Ehrick Elliott</u>	
9. Project information—Building name <u>RAVENNA Army Ammunition Plant</u>			
Address <u>8451 State Route 5</u>		City <u>Ravenna</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>			
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT / SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>FRONT END loader / Excavator</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>Wet method</u>			
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>		abatement <u>1-27-09</u>	
Hours of operation <u>6:00 Am - 4:00 pm</u>		completion (acm work only) <u>2-27-09</u>	
Days of the week	Monday	Tuesday	Wednesday
	<u>X</u>	<u>X</u>	<u>X</u>
			<u>X</u>
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filing this notice <u>Keith R. Bickel</u>			Date <u>1-26-09</u>

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 3 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 27865</u>		Name of asbestos hazard abatement specialist for project <u>Enrick Elliott</u>	
		Expiration <u>6-13-09</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>	abatement <u>1-27-09</u>	completion (perm work only) <u>2-27-09</u>	
Hours of operation <u>4:30 AM - 2:30 PM</u>			
Days of the week	Monday	Tuesday	Wednesday
	<u>X</u>	<u>X</u>	<u>X</u>
			<u>X</u>
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filling this notice <u>Keith R. Bickel</u>			Date

Do Not WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health

Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 4 revised line(s) number 0
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS25205</u>		Name of asbestos hazard abatement specialist for project <u>JOHN D. COEN SR</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (if special) <u>Winklepeck Burning Grounds</u>			
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet	<u>7500 Cubic Yards</u>		square feet
12. Abatement dates			
set up	<u>1-26-09</u>	abatement	<u>1-27-09</u>
completion (perm work only)	<u>2-27-09</u>		
Hours of operation			
Days of the week	Monday	Tuesday	Wednesday
	<u>4:30-1430</u>	<u>4:30-1430</u>	<u>4:30-1430</u>
13. Approved landfill—Name <u>American Landfill</u>			
City <u>7916 Chapel Street, Waynesburg</u>		State <u>OH</u>	EPA permit number <u>02-12954</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filing this notice <u>Keith R. Bickel</u>		Date <u>2-3-09</u>	

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15275, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 5 revised line(s) number 8
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>13301358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader / EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>	abatement <u>1-27-09</u>	completion (perm work only) <u>2-27-09</u>	
Hours of operation			
Days of the week	Monday <u>430-1500</u>	Tuesday <u>430-1500</u>	Wednesday <u>430-1500</u>
	Thursday <u>430-1500</u>	Friday	Saturday
	Sunday		
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filling this notice <u>Keith R. Bickel</u>			Date <u>2-10-09</u>

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 6 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

B. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (if specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>Front End Loader / EXCAVATOR</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>WET METHOD</u>			
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>		completion (acm work only) <u>2-27-09</u>	
Hours of operation <u>Due to High winds & electrical storms on 2-12-09 we will not work. Will work on 2-13-09. RETURN TO NORMAL WORK SCHEDULE on 2-16-09</u>			
Days of the week <u>Monday 430-1500</u>		<u>Tuesday 430-1500</u>	
<u>Wednesday 430-1500</u>		<u>Thursday 430-1500</u>	
<u>Friday</u>		<u>Saturday</u>	
<u>Sunday</u>			
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filling this notice <u>Keith R. Bickel</u>			Date <u>2-11-09</u>

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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15275, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 67 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>13301358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>13301358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH R. BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>			
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>			
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>WET METHOD</u>			
11. Estimate of asbestos containing material			
linear feet <u>7500 Cubic Yards</u>		square feet	
12. Abatement dates			
set up <u>1-26-09</u>		abatement <u>1-27-09</u>	completion (on work only) <u>3-5-09</u>
Hours of operation			
Days of the week			
Monday <u>430-1500</u>	Tuesday <u>430-1500</u>	Wednesday <u>430-1500</u>	Thursday <u>430-1500</u>
Friday	Saturday	Sunday	
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
14. Name of person filing this notice <u>Keith R. Bickel</u>			Telephone number <u>330-866-3265</u>
			Date

Do Not Write in This Space

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

1. Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15275, Columbus, Ohio 43215.
2. Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
3. Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
4. Type of notification ☐ original ☒ revision number 8 revised line(s) number 12
☐ emergency ☐ blanket ☐ cancellation
5. Type of abatement involving at least 50 linear feet or 50 square feet
☒ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>			
Address <u>1 Rock Island Arsenal</u>		City <u>Rock Island</u>	State <u>IL</u>
Contact <u>Mark Patterson</u>		Contact telephone number <u>(330) 358-7311</u>	
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA International, Inc.</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>		City <u>Stafford</u>	State <u>TX</u>
Contact <u>Brian Stockwell</u>		Telephone number <u>(330) 358-7135</u>	
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH R. BICKEL</u>	
		Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA Army AMMUNITION PLANT</u>			
Address <u>8451 State Route 5</u>		City <u>RAVENNA</u>	State <u>OH</u>
Site location (if specific) <u>Winklepeck Burning Grounds</u>		County <u>PORTAGE</u>	
10. Project description			
Type of asbestos material	<input type="checkbox"/> surfacing	<input type="checkbox"/> mechanical	<input checked="" type="checkbox"/> other <u>DIRT/ SOIL</u>
Asbestos removal from	<input type="checkbox"/> pipe	<input type="checkbox"/> boiler	<input checked="" type="checkbox"/> other <u>Front End Loader/ EXCAVATOR</u>
Engineering controls	<input type="checkbox"/> AFD	<input type="checkbox"/> glove bag	<input checked="" type="checkbox"/> other <u>WET METHOD</u>
11. Estimate of asbestos containing material			
linear feet	<u>7500 Cubic Yards</u>		square feet
12. Abatement dates			
set up	<u>1-26-09</u>	abatement	<u>1-27-09</u>
		completion (acm work only)	<u>3-6-09</u>
* Hours of operation <u>NATIONAL GUARD TO USE TEST RANGE NEXT TO DIRT/ SOIL STOCKPILE</u>			
Days of the week	Monday <u>430-1500</u>	Tuesday <u>430-1500</u>	Wednesday <u>*</u>
	Thursday <u>430-1500</u>	Friday <u>430-1500</u>	Saturday <u></u>
	Sunday <u></u>		
13. Approved landfill—Name <u>American Landfill</u>			EPA permit number <u>02-12954</u>
City <u>7916 Chapel Street, Waynesburg</u>			State <u>OH</u>
			Telephone number <u>330-866-3265</u>
14. Name of person filing this notice <u>Keith R. Bickel (330-388-1921)</u>			Date <u>3-3-09</u>

DO NOT WRITE IN THIS SPACE

Postmark	Date Received	Notification No.	By
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Ohio Department of Health Prior Notification of Asbestos Hazard Abatement Project

Read carefully all the instructions and questions prior to completing the notification form.

- Notifications including check shall be typed and sent to the Ohio Department of Health, Attn: Revenue Processing, P.O. Box 15278, Columbus, Ohio 43215.
- Checks shall be made payable to: Treasurer, State of Ohio, for the amount of sixty-five dollars (\$65.00).
- Any licensed asbestos hazard abatement contractor who performs any asbestos hazard abatement projects within the State of Ohio shall submit prior notifications to the Director at least ten business days before beginning each planned asbestos hazard abatement project as required by Chapter 3701-34 of the Ohio Administrative Code.
- Type of notification ☐ original ☐ revision number 9 revised line(s) number 11 12
☐ emergency ☐ blanket ☐ cancellation
- Type of abatement involving at least 50 linear feet or 50 square feet
☐ removal ☐ repair ☐ encapsulation ☐ enclosure ☐ renovation

6. Owner name <u>US Army of Defense</u>							
Address <u>1 Rock Island Arsenal</u>				City <u>Rock Island</u>		State <u>IL</u>	ZIP <u>61299</u>
Contact <u>Mark Patterson</u>				Contact telephone number <u>(330) 358-7311</u>			
7. License number <u>AC 1880</u>		Abatement Contractor <u>PIKA INTERNATIONAL, INC.</u>				Expiration <u>10-21-09</u>	
Address <u>12723 Capricorn Dr. Suite 500</u>				City <u>STAFFORD</u>		State <u>TX</u>	ZIP <u>77477</u>
Contact <u>BRIDN STOCKWELL</u>				Telephone number <u>(330) 358-7135</u>			
8. Certification number <u>AS 23299</u>		Name of asbestos hazard abatement specialist for project <u>KEITH R. BICKEL</u>				Expiration <u>2-3-10</u>	
9. Project information—Building name <u>RAVENNA ARMY AMMUNITION PLANT</u>							
Address <u>8451 STATE ROUTE 5</u>				City <u>RAVENNA</u>		State <u>OH</u>	County <u>PORTAGE</u>
Site location (specific) <u>WINKLEPECK BURNING GROUNDS</u>							
10. Project description							
Type of asbestos material <input type="checkbox"/> surfacing <input type="checkbox"/> mechanical <input checked="" type="checkbox"/> other <u>DIRT / SOIL</u>							
Asbestos removal from <input type="checkbox"/> pipe <input type="checkbox"/> boiler <input checked="" type="checkbox"/> other <u>FRONT END LOADER / EXCAVATION</u>							
Engineering controls <input type="checkbox"/> AFD <input type="checkbox"/> glove bag <input checked="" type="checkbox"/> other <u>WET METHOD</u>							
11. Estimate of asbestos containing material							
linear feet <u>1500 Cubic yards</u>				square feet			
12. Abatement dates							
set up		abatement		completion (from work only)			
		<u>3-24-09</u>		<u>3-24-09</u>			
Hours of operation							
Days of the week							
Monday		Tuesday		Wednesday		Thursday	
				<u>700-1530</u>			
Friday						Saturday	
						Sunday	
13. Approved landfill—Name <u>AMERICAN LANDFILL</u>						EPA permit number <u>02-12954</u>	
City <u>7916 CHAPEL STREET, WAYNESBURG</u>				State <u>OH</u>		Telephone number <u>330 866-3265</u>	
14. Name of person filing this notice <u>KEITH R. BICKEL (330-388-1921)</u>						Date <u>3-23-09</u>	



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix F

MEC Demolition Notification, MEC Tracking Log, and Post-Detonation Sampling Results



**RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO
MUNITIONAS AND EXPLOSIVES OF CONCNCERN (MEC)
DEMOLITION/DISPOSAL NOTIFICATION**

Date: January 9, 2009

Contractor: MKM Engineers, Inc, 4153 Bluebonnet Drive, Stafford, TX 77477
Location: Ravenna Army Ammunition Plant, Ravenna, OH
Project Name: Winklepeck Burning Grounds Remedial Action

POINT OF CONTACT:

Mark Patterson - RVAAP Facility Manager
Phone (330) 358- 7312
Fax (330) 358-7314

Tom Chanda – USACE, Louisville
Phone (502) 315-6868
Fax (502) 315-6864

Kate Anthony - MKM Project Manager
Phone (916) 920-9146
Fax (916) 920-9163

Brian Stockwell – PIKA International, Inc. Project Manager
Phone (330) 358-7135
Fax (330) 358-2924

Lew Kovarik - PIKA Senior UXO Supervisor (SUXOS)
Phone (330) 358-7135
Fax (330) 358-2924

MEC SPECIFIC INFORMATION:

Location MEC was Discovered: RVAAP Winklepeck Burning Grounds – Pad 61, Berm area south of Pad 61, and Pad 61A

Name of Person who discovered the MEC: Lew Kovarik – PIKA International, Inc. SUXOS

Date and Time MEC was discovered: See attached MEC Tracking Log

Description of MEC to be blown: See attached MEC tracking Log

Scheduled Date for site operations: 19 January 2009 to 23 January 2009

PROPOSED DESTRUCTION LOCATION:

RVAAP Open Detonation Area 2 (ODA2)



**RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO
MUNITIONAS AND EXPLOSIVES OF CONCNCERN (MEC)
DEMOLITION/DISPOSAL NOTIFICATION**

PROPOSED METHOD OF DESTRUCTION:

Demolition/disposal of the MEC items will be performed using 80 grain detonation cord and perforators. The demolition/disposal operations will be conducted following the requirements of the approved Remedial Action Work Plan for Winklepeck Burning Grounds (MKM July 2008), Explosives Safety Submission for the Munitions and Explosives of Concern Survey and Munitions Response of Winklepeck Burning Grounds at the RVAAP, Revision 3, Amendment 2 (MKM, April 2008), Site Safety and Health Plan Amendment for the Phase II MEC Clearance and Munitions Response at Winklepeck Burning Grounds (MKM, September 2008), the January 2009 RVAAP Installation Spill Contingency Plan and in accordance with MKM's Standard Operating Procedure (SOP) - 13: OE Operations - Demolition and Disposal Safety and approved ESS.

PROPOSED METHODS TO MITIGATE/ABATE POTENTIAL CONTAMINATION:

In accordance with the approved Work Plans, surface soil samples will be collected at the ODA2 site prior to and following the site operations to check for potential impact as a result of demolition operations. Due to the limited amount of MEC items, and short duration of the field operations (one week or less), it has been determined that the surface water sampling outlined in the approved Work plans will not be required. Ohio EPA has determined that the limited duration of the demolition operations coupled with the mitigation techniques to be employed will preclude any potential contamination from reaching Sand Creek. [see Section VI(9)(A) of DFFO]. During the MEC demolition operations the ODA2 site will be inspected on a weekly basis in accordance with the parameters set forth in Appendix 2 (RCRA Inspection Requirements for Hazardous Waste - Open Detonation) of the January 2009 RVAAP Installation Spill Contingency Plan. Additionally, sand bag mitigation will be used to defeat fragments from the MEC items and prevent contamination of ODA2. The total quantity to be destroyed at any one time will not exceed the range limit of 25 lbs. After each detonation, the resultant scrap metal, casings, fragments and related items will be recovered from the demolition range, inspected for absence of explosives and certified by the SUXOS and the Quality Control Specialist (QCS) for disposal as scrap. Upon completion, disturbed areas will be filled in, contoured, and seeded and mulched with an approved RVAAP seed mixture. If clean fill is needed it will be supplied from the Ohio EPA approved off site source (Patrick Excavating).

PREPAREDNESS AND PREVENTION:

- Prior to initiating any demolition work, a minimum 200 foot area around the demolition site(s) will be cleared of combustible materials such as leaves and dry grass.
- A red warning flag and/or red flashing light will be displayed at the ODA2 entrance gate during demolition operations.
- The ODA2 entrance gate will be guarded and/or locked when demolition work is in process.
- Only essential personnel (as determined by the SUXOS) will be permitted within ODA2 during demolition operations.



**RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO
MUNITIONAS AND EXPLOSIVES OF CONCNCERN (MEC)
DEMOLITION/DISPOSAL NOTIFICATION**

- No demolition activities will be performed if there is less than a 2,000 for ceiling or if wind velocity is in excess of 20 mph.
- Demolition work will only be performed during daylight hours.
- Detonations will be counted to ensure detonation of all rigged shots.

NOTIFICATIONS TO BE MADE:

At least one week prior to initiation of planned MEC Demolition/Disposal Operations, notifications will be made to the local emergency services and key project personnel listed below:

- Mark Patterson, RVAAP Facility Manager (330) 358-7311
- William O'Donell - BRAC Technical Support Office (309) 782-1395
- Tom Chanda - USACE, Louisville - (502) 315-6868
- Ohio EPA, NEDO DERR- Eileen Mohr - (330) 963-1221
- Ohio EPA, NEDO DHWM- Frank Zingales - 330-963-1108
- OHARNG - (614) 336-6790
- Air Reserve 910th Air Station (330) 609-1070
- Air Space and Procedures Office, Cleveland Air Route Traffic Control Center (Notice to Airmen) Mark Agostinelli - (440) 774-0609
- Akron Regional Air Quality management District, Lynn Malcolm (330) 375-2480
- Jim McGee, PIKA Site Manager - (330) 358-3005
- RVAAP Security Dispatcher (Post 1) - (330) 358-2017
- Portage County EMA - Mark Griffiths, Director - (330) 297-3607
- Trumbull County EMA - Linda Beil, Director - (330) 675-2666
- Robinson Memorial Hospital (330) 297-0811
- Ravenna City Fire Department (330) 296-5783
- Ravenna Police Department - (330) 297-6486
- Police - Portage County Sheriff Office (330) 296-0811
- Police - Trumbull County Sheriff Office (330) 675-2508
- Ohio State Patrol (330) 297-1441
- RAB Members - Mailing List

If you have any questions or require any clarification on the above listed information, please call me at 330-358-7135.

Respectfully,

Brian Stockwell
Project Manager
PIKA International, Inc.

cc: Mark Patterson (RVAAP)
Tom Chanda (USACE, Louisville)

Katie Elgin (OHARNG)
Kathleen Anthony (MKM)



MEC TRACKING LOG

Project: RA at Ravenna Army Ammunition Plant, Ravenna, OH

Contract: W912QR-04-D-0040

Date	Item Description	Igloo No.	Disposition
10/1/2008	MK II Hand Gernade	1501	Awaiting Disposal
10/1/2008	40 mm Prac Gernade	1501	Awaiting Disposal
10/1/2008	(2)P.D. Fuzes (T-Bar)	1501	Awaiting Disposal
10/2/2008	(1)P.D. Fuzes (T-Bar)	1501	Awaiting Disposal
10/14/2008	(1)P.D. Fuzes M52B1	1501	Awaiting Disposal
10/16/2008	(1)P.D. Fuzes M52B1	1501	Awaiting Disposal
10/22/2008	(3) Grenade Fuzes	1501	Awaiting Disposal
10/22/2008	(1)P.D. Fuzes M52B1	1501	Awaiting Disposal
11/7/2008	(3)P.D. Fuzes (T-Bar)	1501	Awaiting Disposal
11/7/2008	(1) MK II Hand Gernade (No Fuze)	1501	Awaiting Disposal
11/7/2008	(1) B.D. Fuze	1501	Awaiting Disposal
11/7/2008	(1) Grenade Fuze	1501	Awaiting Disposal
11/16/2008	(2) 40mm Prac Grenade	1501	Awaiting Disposal

MEC TRACKING LOG

Project: RA at Ravenna Army Ammunition Plant, Ravenna, OH

Contract: W912QR-04-D-0040

[illegible]

SUMMARY OF MULTI-INCREMENT SURFACE SOIL SAMPLING RESULTS
SURFACE SOIL (0-1FT BGS)
WBG MEC DISPOSAL
RAVENNA ARMY AMMUNITION PLANT

Analyte		DA2ss-132M-0949-SO			DA2ss-132M-0953-SO			DA2ss-133M-0950-SO			DA2ss-133M-0954-SO			DA2ss-134M-0951-SO			DA2ss-134M-0955-SO			DA2ss-135M-0952-SO			DA2ss-135M-0956-SO		
		Q	MDL		Q	MDL		Q	MDL		Q	MDL		Q	MDL		Q	MDL		Q	MDL		Q	MDL	
Sample Date		7/13/2007			2/10/2009			7/13/2007			2/10/2009			7/13/2007			2/10/2009			7/13/2007			2/10/2009		
	SURFACE SOIL BACKGROUND CRITERIA	POST-DEMO			POST-DEMO			POST-DEMO			POST-DEMO			POST-DEMO			POST-DEMO			POST-DEMO			POST-DEMO		
EXPLOSIVES mg/kg																									
HMX	0	0.073	J	0.029	0.037	J	0.029	ND		0.03	0.17	J	0.029	ND		0.03	0.041	J	0.03	0.091	J	0.03	ND		0.029
RDX	0	0.36		0.039	ND		0.039	ND		0.04	0.52		0.039	0.051	J	0.04	ND		0.04	1.7		0.04	ND		0.039
1,3,5-Trinitrobenzene	0	0.039	J	0.02	ND		0.02	0.022	J	0.02	ND		0.019	ND		0.02	ND		0.02	0.021	J	0.02	0.047	J	0.02
1,3- Dinitrobenzene	0	ND		0.049	ND		0.049	ND		0.05	ND		0.048	ND		0.05	ND		0.05	ND		0.05	ND		0.049
Nitrobenzene	0	ND		0.049	ND		0.049	ND		0.05	ND		0.048	ND		0.05	ND		0.05	ND		0.05	ND		0.049
2,4,6-Trinitrotoluene	0	0.19	J	0.02	ND		0.02	0.026	J	0.02	0.025	J	0.019	0.16	J	0.02	ND		0.02	0.30		0.02	ND		0.02
Tetryl	0	1.1		0.049	ND		0.049	0.30		0.05	ND		0.048	0.40		0.05	ND		0.05	0.14	J	0.05	2.1		0.049
2,4-Dinitrotoluene	0	ND		0.02	ND		0.02	ND		0.02	ND		0.019	ND		0.02	ND		0.02	ND		0.02	ND		0.02
2,6-Dinitrotoluene	0	ND		0.029	ND		0.029	ND		0.03	ND		0.029	ND		0.3	ND		0.03	ND		0.03	ND		0.029
2-Amino-4,6-Dinitrotoluene	--	ND		0.098	ND		0.098	ND		0.099	ND		0.097	ND		0.099	ND		0.099	ND		0.1	ND		0.098
4-Amino-2,6-Dinitrotoluene	--	0.079	J	0.02	0.043	J	0.02	0.056	J	0.02	0.037	J	0.019	0.044	J	0.02	0.029	J	0.029	0.026	J	0.02	0.044	J	0.02
2-Nitrotoluene	0	ND		0.078	ND		0.078	ND		0.079	ND		0.078	ND		0.079	ND		0.079	ND		0.08	ND		0.078
4-Nitrotoluene	0	ND		0.078	ND		0.078	ND		0.079	ND		0.078	ND		0.079	ND		0.079	ND		0.08	ND		0.078
3-Nitrotoluene	0	ND		0.069	ND		0.069	ND		0.069	ND		0.068	ND		0.069	ND		0.069	ND		0.07	ND		0.069
PETN	--	ND		0.16	ND		0.16	ND		0.16	ND		0.16	ND		0.16	ND		0.16	ND		0.16	ND		0.16
PROPELLANTS mg/kg																									
Nitrocellulose	0	3.0	J	0.78	ND		0.78	2.5	J	0.78	0.93	B	0.78	1.6	B,J	0.78	1.2	B	0.78	2.2	J	0.78	ND		0.78
Nitroguanidine	0	ND		0.032	ND		0.02	ND		0.032	0.021	J	0.020	ND		0.032	ND		0.02	ND		0.032	0.029	J	0.02
Nitroglycerin	0	ND		0.13	ND		0.13	ND		0.13	ND		0.13	ND		0.13	ND		0.13	ND		0.13	ND		0.13
TAL METALS mg/kg																									
Antimony	0.96	0.64	B	0.34	0.74	B	0.4	ND		0.34	ND		0.4	ND		0.34	0.43	B	0.4	ND		0.34	0.46	B	0.4
Arsenic	15.4	15.8		0.35	14.5		0.31	17.2		0.35	13.6		0.31	15.3		0.035	14.0		0.31	14.8		0.035	15.5		0.31
Lead	26.1	41.2		0.25	32.1	E	0.2	29.5		0.25	28		0.2	46.1		0.25	79.2		0.2	36.2		0.25	63.1		0.2
Thallium	0.00	0.70	B	0.55	ND		0.57	0.57	B	0.55	ND		0.57	0.67	B	0.55	ND		0.57	0.65	B	0.55	ND		0.57
Mercury	0.04	0.21		0.014	0.21		0.015	0.26		0.013	0.21		0.016	0.26		0.014	0.26		0.016	0.21		0.014	0.21		0.015
Aluminum	17700	8780		5.2	8300		9.9	8110		5.2	7570		10	8430		5.2	8950		10	7650		5.2	9030		9.9
Barium	88.4	95.6		0.21	82.3	J	0.073	80.7		0.21	61.0	J	0.074	98.7		0.21	77.1	J	0.074	70.1		0.21	87.1	J	0.73
Beryllium	0.88	0.50	B,E	0.03	0.49	B	0.044	0.48	B	0.03	0.47	B	0.045	0.57	B	0.03	0.54	B	0.045	0.47	B	0.03	0.57	B	0.044
Cadmium	0.00	1.4		0.028	1.4		0.037	1.6		0.028	1.5		0.037	1.2		0.028	1.3		0.037	1.1		0.028	1.4		0.037
Calcium	15800	4560	J	8.7	9510	J	16.5	5590	J	8.7	7180	J	16.6	8560	J	8.7	9770	J	16.6	8150	J	8.8	6240	J	16.5
Chromium	17.4	19.8		0.14	18.5		0.21	21.6		0.13	18.5		0.21	21.8		0.14	21.9		0.21	17.1		0.14	29.7		0.21
Cobalt	10.4	10.0		0.35	8.7	E	0.17	9.5		0.35	8.2		0.17	9		0.35	8.7		0.17	8.8		0.35	9.8		0.16
Copper	17.7	118		0.34	113		0.76	116		0.34	93.3		0.77	88.6		0.34	87.8		0.77	93.2		0.34	95.1		0.76
Iron	23100	23300		9.1	21600		5.1	22800		9	22100		5.1	21400		9.1	21200		5.1	20700		9.1	23300		5.0
Magnesium	3030	3570	J	2.2	3690	J	5.3	3580	J	2.2	3270	J	5.3	3810	J	2.2	3720	J	5.3	3400	J	2.2	3970	J	5.2
Manganese	1450	396	J	0.044	353	J	0.076	387	J	0.043	383	J	0.077	448	J	0.044	430	J	0.077	381	J	0.044	419	J	0.076
Nickel	21.1	26.6		0.29	25.5		0.28	26.8		0.29	25.5		0.28	25.4		0.29	23.4		0.28	23.3		0.29	29.2		0.28
Potassium	927	1060	J	3.2	1010	J	6.4	901	J	3.2	914	J	6.4	906	J	3.2	1240	J	6.4	913	J	3.2	1110	J	6.4
Selenium	1.4	ND		0.31	ND		0.46	ND		0.31	0.60	B	0.47	ND		0.31	ND		0.47	ND		0.31	ND		0.46
Silver	0.00	ND		0.3	ND		0.1	ND		0.3	ND		0.1	ND		0.3	ND		0.1	ND		0.3	ND		0.1
Sodium	123	ND		34.3	ND		68.1	ND		34.1	ND		68.5	ND		34.3	ND		68.5	ND		34.4	ND		67.9
Vanadium	31.1	14.3		0.1	12.9		0.12	13.3		0.1	12.1		0.12	13.1		0.1	14.0		0.12	12.5		0.1	14.2		0.12
Zinc	61.8	235		0.58	193		1	204		0.58	164		1	204		0.58	169		1	175		0.58	177		1.0

Results noted as "ND" were not detected at or above the stated limit
Results and reporting limits have been adjusted for dry weight
If result is = or > Background, then the value is presented with a highlighted style
If result > Previous Post Demo results, then the value is presented with a **bold** style
-- - no Background value is available for this analyte
Q - Qualifier
MDL - Method Detection Limit
Inorganics:
B - Estimated Result. Result is less than RL
J - Method blank contamination
E - Matrix Interference
Organics:
J -Estimated Result. Result is less than RL



Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix G

Excavation Progress Tracking

Table G-1
Excavation Tracking
Pads 61, 61A, 67, and Berm South of Pad 61

WBG EXCAVATION TRACKING - Pads 61, 61A, Berm South of Pad 61 and Pad 67			
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	COMMENTS
9/23/2008	4	74	1st day - many sysstem adjustments
9/24/2008	9	180	Blown fuzes - down 1-2hrs
9/25/2008	6	120	Probs with mag roller - adjustments required
9/29/2008	5	100	Ferrous Mag roller broke
9/30/2008	6	120	Eriez installed new roller
10/1/2008	14	280	MK II Grnade found
10/2/2008	16	320	No interruptions
10/6/2008	10	200	Conveyor belt broke and reappeared
10/7/2008	18	360	No interruptions
10/8/2008	7	140	Trommel bearing and Pin on longboom broke
10/9/2008	0	0	Installed new bearings for trommel
10/13/2008	14	280	Installed replacement pin on long boom excavator first thing in morning
10/14/2008	16	320	no interruptions
10/15/2008	13	260	pocket of wet soils encountered at 61A
10/16/2008	0	0	Controller on shaker pan shot and needs replaced; ordered replacements for Saturday. RTLS denied us access on Saturday for install of controller due to weekend derr hunts.
10/20/2008	0	0	Installed new controller and discovered bearings for the shaker are shot as well
10/21/2008	11	220	Installed new bearings for shaker pan
10/22/2008	15	300	Iniitated overexca in Pad 61A mid afternoon
10/23/2008	16	320	None
10/27/2008	18	360	Bearings to eddy current mag shaker failed end of day - new odered for pickup in AM
10/28/2008	3	60	Installed new bearing for shaker on eddy current mag - Rely probs off anon with Shaker pan - rain and snow off and on
10/29/2008			belts slipping - snow all morning - off and on in afternoon - shut down early afternoon
10/30/2008	6	120	wet conditions from melting snow
11/3/2008	0	0	crew received blood tests to evaluate potential lead isse - all persoonel fit tested for PPE upgrade aswell
11/4/2008	15	300	
11/5/2008			MK19 Firing - o site work
11/6/2008	5	100	
TOTALS	227	4534	

Table G-2
Excavation Tracking
Pad 70

WBG EXCAVATION TRACKING - Pad 70				
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	VOLUME PROCESSED	COMMENTS
11/6/2008	9	180	180	
11/7/2008	13	260	297	Processed all material excavated for the day as well as the balance of stockpile
11/10/2008	10	200	200	
11/11/2008	8	160	160	
TOTALS	40	800	837	
Pad 70 is on eastern end of Winklepeck & sift plant is on western end which adds a lot of time to hauling				

Table G-3
Excavation Tracking
Additional Excavation Option
Berm at Pad 61

WBG EXCAVATION TRACKING - Additional Excavation Option - Berm at Pad 61			
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	COMMENTS
11/11/2008	3	60	
11/12/2008	6	120	re-adjusted screens etc. on plant for increased amount of debris encountered
11/13/2008	12	240	
11/16/2008	7	140	Track bolt probs on longboom excavator - snow off and on
11/17/2008	19	380	snow on and off all day - material remains fairly dry - getting to and from site very sloppy though
11/18/2008	13	260	
11/19/2008	18	360	
11/24/2008	7	140	Over-excavated remaining stained areas on floor of excavation before sampling - rain hindered sift ops with belts slipping etc.
			Site conditions have turned "muddy" from melting snow and rain today - any additional digging and sifting beyond what is stockpiled at this point will be a huge challenge unless we get a good freeze to crust things over
12/2/2008	13	260	Over-excavation of berm area based on asbestos results
12/3/2008	2	40	completed over-excavation of berm area
TOTALS	100	2000	

Table G-4
Excavation Tracking
Additional Excavation Option
Berm at Pad 67

WBG EXCAVATION TRACKING - Mod 4 - Additional Excavation Option - Berm at Pad 67 Area			
DATE	# of TRUCK LOADS	VOLUME EXCAVATED	COMMENTS
12/3/2008	2.5	50	pumped and containerized collected water prior to excavating
TOTALS	100	2000	

Table G-5
Excavated Soil Summary Table
Pad 61

PAD 61 SOIL		
DATE	# of TRUCK LOADS	VOLUME EXCAVATED-DAILY (Cubic Yards)
09/23/08	4	74
09/24/08	9	180
09/25/08	6	120
WEEKLY TOTAL	19	374
09/29/08	5	100
09/30/08	6	120
10/01/08	13	260
WEEKLY TOTAL	24	480
10/21/08	3	60
10/22/08	15	300
10/23/08	11	220
WEEKLY TOTAL	29	580
10/27/08	15	300
Berm South of Pad 61		
10/27/08	3	60
10/28/08	3	60
10/30/08	6	120
WEEKLY TOTAL	27	540
11/04/08	15	300
11/06/08	3	60
WEEKLY TOTAL	18	360
TOTAL	117	2334

Table G-6
Excavated Soil Summary Table
Additional Excavation Options
Pad 61 Berm Soil

Additional Excavation Option - PAD 61 BERM SOIL		
DATE	# of TRUCK LOADS	VOLUME EXCAVATED-DAILY (Cubic Yards)
11/11/08	3	60
11/12/08	6	120
11/13/08	12	240
WEEKLY TOTAL	21	420
11/16/08	7	140
11/17/08	19	380
11/18/08	13	260
11/19/08	18	360
WEEKLY TOTAL	57	1140
11/27/08	7	140
WEEKLY TOTAL	7	140
12/02/08	15	300
WEEKLY TOTAL	15	300
TOTAL	100	2000

Table G-7
Excavated Soil Summary Table
Pad 61A

PAD 61A SOIL		
DATE	# of TRUCK LOADS	VOLUME EXCAVATED-DAILY (Cubic Yards)
10/01/08	1	20
10/02/08	16	320
WEEKLY TOTAL	17	340
10/06/08	10	200
10/07/08	18	360
10/08/08	7	140
WEEKLY TOTAL	35	700
10/13/08	14	280
10/14/08	16	320
10/15/08	13	260
WEEKLY TOTAL	43	860
10/21/08	8	160
10/23/08	5	100
WEEKLY TOTAL	13	260
TOTAL	108	2160

Table G-8
Excavated Soil Summary Table
Pad 67

PAD 67 SOIL		
DATE	# of TRUCK LOADS	VOLUME EXCAVATED- DAILY (Cubic Yards)
11/06/08	2	40
WEEKLY TOTAL	2	40
TOTAL	2	40

Table G-9
Excavated Soil Summary Table
Additional Excavation
Pad 67

Additional Excavation Option - Pad 67 Area		
DATE	# of TRUCK LOADS	VOLUME EXCAVATED- DAILY (Cubic Yards)
12/15/08	2.5	50
WEEKLY TOTAL	2.5	50
TOTAL	2.5	50

Table G-10
Excavated Soil Summary Table
Pad 70

PAD 70 SOIL		
DATE	# of TRUCK LOADS	VOLUME EXCAVATED-DAILY (Cubic Yards)
11/06/08	9	180
11/07/08	13	260
WEEKLY TOTAL	22	440
11/10/08	10	200
11/11/08	8	160
WEEKLY TOTAL	18	360
TOTAL	40	800



Appendix H

Soil Stockpile Removal Summary

Table H-1
WBG Excavated Quantities by Site

WBG		
Location	Truck Loads	CY
Pad 61	117	2334
Pad 61A	108	2160
Pad 67	4.5	90
Pad 70	40	800
Pad 61 Berm	100	2000
Totals	369.5	7384

WBG		
Location	Truck Loads	Tons
Soil Stockpile	389	7450.63

Table H-2
Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

WBG SOIL STOCKPILE REMOVAL					
DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
01/27/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	17.27	001
01/27/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	18.68	002
01/27/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	18.92	003
01/27/09	46	BDB Trucking	American Landfill Inc., Waynesburg OH	20.68	004
01/27/09	596	DART Trucking	American Landfill Inc., Waynesburg OH	27.34	005
01/29/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	10.72	006
01/29/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.98	007
01/29/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	23.62	008
01/29/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	14.88	009
01/29/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	17.98	010
01/29/09	592	DART Trucking	American Landfill Inc., Waynesburg OH	19.64	011
01/29/09	600	DART Trucking	American Landfill Inc., Waynesburg OH	14.50	012
01/29/09	596	DART Trucking	American Landfill Inc., Waynesburg OH	17.48	013
01/29/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	15.18	014
01/29/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.80	015
01/30/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	18.40	016
01/30/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	22.33	017
01/30/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.97	018
01/30/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	18.98	019
01/30/09	591	DART Trucking	American Landfill Inc., Waynesburg OH	18.17	020
01/30/09	592	DART Trucking	American Landfill Inc., Waynesburg OH	21.75	021
01/30/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	21.25	022
01/30/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	17.85	023
01/30/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	17.13	024
01/30/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	16.06	025
02/02/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	17.48	026
02/02/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.24	027
02/02/09	600	DART Trucking	American Landfill Inc., Waynesburg OH	20.63	028
02/02/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.16	029
02/02/09	600	DART Trucking	American Landfill Inc., Waynesburg OH	20.15	030
02/02/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	19.33	031
02/02/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	16.61	032
02/02/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.86	033
02/02/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	17.91	034
02/03/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	19.44	035
02/03/09	53	DART Trucking	American Landfill Inc., Waynesburg OH	17.26	036
02/03/09	600	DART Trucking	American Landfill Inc., Waynesburg OH	21.98	037
02/03/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	17.75	038
02/03/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	19.54	039
02/03/09	591	DART Trucking	American Landfill Inc., Waynesburg OH	20.80	040
02/03/09	77	BDB Trucking	American Landfill Inc., Waynesburg OH	26.22	041
02/03/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	17.43	042
02/03/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.72	043

Table H-2
Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
02/03/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.17	044
02/03/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	18.86	045
02/03/09	600	DART Trucking	American Landfill Inc., Waynesburg OH	23.67	045*
02/03/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	19.22	046
02/03/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	18.95	047
02/03/09	591	DART Trucking	American Landfill Inc., Waynesburg OH	20.64	048
02/03/09	77	BDB Trucking	American Landfill Inc., Waynesburg OH	24.51	049
02/03/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	16.32	050
02/03/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	19.01	051
02/03/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	19.66	052
02/03/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	19.38	053
02/04/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.17	054
02/04/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	18.49	055
02/04/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	21.97	056
02/04/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	20.94	057
02/04/09	591	DART Trucking	American Landfill Inc., Waynesburg OH	15.36	058
02/04/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	20.50	059
02/04/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	16.88	060
02/04/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	14.87	061
02/04/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	14.67	062
02/04/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.63	063
02/04/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	17.57	064
02/04/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	13.98	065
02/04/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.07	066
02/04/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	16.29	067
02/04/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	15.67	068
02/04/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	12.16	069
02/04/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	15.26	070
02/04/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	19.64	071
02/05/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	13.99	072
02/05/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.53	073
02/05/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	15.73	074
02/05/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	15.2	075
02/05/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.03	076
02/05/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	12.72	077
02/05/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	14.39	078
02/05/09	520	DART Trucking	American Landfill Inc., Waynesburg OH	15.77	079
02/05/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	14.24	080
02/05/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	14.85	081
02/05/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	14.37	082
02/05/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	15.88	083
02/05/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	12.69	084
02/05/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	10.14	085
02/05/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	17.52	086
02/05/09	520	DART Trucking	American Landfill Inc., Waynesburg OH	16.52	087
02/05/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	12.82	088

Table H-2
Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
02/05/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	13.59	089
02/05/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.78	090
02/05/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	12.6	091
02/09/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.96	099
02/09/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.91	100
02/09/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	24.89	101
02/09/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	18.62	102
02/09/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	20.18	103
02/09/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	16.33	104
02/09/09	48	BDB Trucking	American Landfill Inc., Waynesburg OH	20.27	105
02/09/09	77	BDB Trucking	American Landfill Inc., Waynesburg OH	24.41	106
02/09/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	16.36	107
02/09/09	46	BDB Trucking	American Landfill Inc., Waynesburg OH	20.52	108
02/09/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.09	109
02/09/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.16	110
02/09/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	17.61	111
02/09/09	77	BDB Trucking	American Landfill Inc., Waynesburg OH	22.13	112
02/09/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	15.67	113
02/09/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.31	114
02/09/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	19.77	115
02/09/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	17.62	116
02/10/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.37	117
02/10/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.2	118
02/10/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	23.83	119
02/10/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	15.42	120
02/10/09	76	BDB Trucking	American Landfill Inc., Waynesburg OH	16.86	121
02/10/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	17.13	122
02/10/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	15.1	123
02/10/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.69	123*
02/10/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	16.93	124
02/10/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	16.03	125
02/10/09	76	BDB Trucking	American Landfill Inc., Waynesburg OH	15.96	126
02/10/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	13.8	127
02/10/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	14.56	128
02/10/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	19.09	129
02/10/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	17.42	130
02/11/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.10	131
02/11/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	20.97	132
02/11/09	28	BDB Trucking	American Landfill Inc., Waynesburg OH	17.09	133
02/11/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	15.87	134
02/11/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	16.72	135
02/11/09	48	BDB Trucking	American Landfill Inc., Waynesburg OH	19.79	136
02/11/09	62	BDB Trucking	American Landfill Inc., Waynesburg OH	17.47	137
02/11/09	520	DART Trucking	American Landfill Inc., Waynesburg OH	16.97	138
02/11/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.27	139
02/11/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	17.91	140

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Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
02/11/09	48	BDB Trucking	American Landfill Inc., Waynesburg OH	17.41	141
02/11/09	62	BDB Trucking	American Landfill Inc., Waynesburg OH	25.36	142
02/11/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.46	143
02/11/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	23.40	144
02/11/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	18.86	145
02/11/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.66	146
02/11/09	520	DART Trucking	American Landfill Inc., Waynesburg OH	24.47	147
02/13/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	15.30	148
02/13/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	21.24	149
02/13/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	22.24	150
02/13/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	17.52	151
02/13/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	19.47	152
02/13/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	18.38	153
02/13/09	76	BDB Trucking	American Landfill Inc., Waynesburg OH	20.24	154
02/13/09	48	BDB Trucking	American Landfill Inc., Waynesburg OH	21.74	155
02/13/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	16.36	156
02/13/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	23.40	157
02/13/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	21.11	158
02/13/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	18.38	159
02/13/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	16.33	160
02/13/09	75	BDB Trucking	American Landfill Inc., Waynesburg OH	18.20	161
02/13/09	76	BDB Trucking	American Landfill Inc., Waynesburg OH	16.32	162
02/13/09	48	BDB Trucking	American Landfill Inc., Waynesburg OH	16.49	163
02/13/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	13.41	164
02/16/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	26.82	165
02/16/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.52	166
02/16/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	17.71	167
02/16/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	20.72	168
02/16/09	62	BDB Trucking	American Landfill Inc., Waynesburg OH	22.32	169
02/16/09	37	BDB Trucking	American Landfill Inc., Waynesburg OH	16.95	170
02/16/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	17.92	171
02/16/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	18.75	172
02/16/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.78	173
02/16/09	54	BDB Trucking	American Landfill Inc., Waynesburg OH	21.44	174
02/16/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	20.40	175
02/16/09	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.41	176
02/16/09	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.39	177
02/16/09	37	BDB Trucking	American Landfill Inc., Waynesburg OH	19.96	178
02/16/09	45	BDB Trucking	American Landfill Inc., Waynesburg OH	18.38	179
02/16/09	81	BDB Trucking	American Landfill Inc., Waynesburg OH	18.95	180
2/17/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	16.72	181
2/17/2009	37	BDB Trucking	American Landfill Inc., Waynesburg OH	20.98	182
2/17/2009	33	BDB Trucking	American Landfill Inc., Waynesburg OH	21.14	183
2/17/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	18.08	184
2/17/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	17.06	185
2/17/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.91	186

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Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
2/17/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	17.36	187
2/17/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	18.95	188
2/17/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	22.92	189
2/17/2009	37	BDB Trucking	American Landfill Inc., Waynesburg OH	19.77	190
2/17/2009	33	BDB Trucking	American Landfill Inc., Waynesburg OH	18.37	191
2/17/2009	56	BDB Trucking	American Landfill Inc., Waynesburg OH	15.83	192
2/17/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	18.62	193
2/17/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	18.28	194
2/17/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.26	195
2/17/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	21.4	196
2/17/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	19.72	197
2/17/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	22.44	198
2/17/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	20.59	199
2/17/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	24.56	200
2/17/2009	33	BDB Trucking	American Landfill Inc., Waynesburg OH	20.82	201
2/17/2009	56	BDB Trucking	American Landfill Inc., Waynesburg OH	19.08	202
2/18/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.6	203
2/18/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	21.7	204
2/18/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	24.39	205
2/18/2009	10	BDB Trucking	American Landfill Inc., Waynesburg OH	22.1	206
2/18/2009	33	BDB Trucking	American Landfill Inc., Waynesburg OH	18.5	207
2/18/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	23.67	208
2/18/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	20.48	209
2/18/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	21.88	210
2/18/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	26.26	211
2/18/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	27.07	212
2/18/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	20.72	213
2/18/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	16.06	214
2/18/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	15.53	215
2/18/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	21.88	216
2/18/2009	10	BDB Trucking	American Landfill Inc., Waynesburg OH	18.32	217
2/18/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	23.02	218
2/18/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	17.37	219
2/18/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	17.37	220
2/18/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	21.03	221
2/18/2009	56	BDB Trucking	American Landfill Inc., Waynesburg OH	18.11	222
2/18/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	17.81	223
2/18/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	20.93	224
2/18/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	19.77	225
2/18/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	20.73	226
2/18/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.98	227
2/18/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.55	228
2/18/2009	54	BDB Trucking	American Landfill Inc., Waynesburg OH	21.79	229
2/18/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	23.94	230
2/18/2009	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.36	231
2/18/2009	10	BDB Trucking	American Landfill Inc., Waynesburg OH	20.66	232

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Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
2/18/2009	56	BDB Trucking	American Landfill Inc., Waynesburg OH	15.7	233
2/19/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	22.17	234
2/19/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	22.7	235
2/19/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	23.24	236
2/19/2009	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.55	237
2/19/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	19.43	238
2/19/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	19.17	239
2/19/2009	48	BDB Trucking	American Landfill Inc., Waynesburg OH	18.29	240
2/19/2009	54	BDB Trucking	American Landfill Inc., Waynesburg OH	20.89	241
2/19/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	22.05	242
2/19/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	21.41	243
2/19/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	20.31	244
2/19/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	25.89	245
2/19/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	32.09	246
2/23/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	21.92	247
2/23/2009	53	BDB Trucking	American Landfill Inc., Waynesburg OH	20.29	248
2/23/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	19.55	249
2/23/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.96	250
2/23/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	18.91	251
2/23/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	18.77	252
2/23/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	18.25	253
2/23/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	21.35	254
2/23/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	22.59	255
2/23/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	19.7	256
2/23/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	18.93	257
2/23/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	19.04	258
2/23/2009	54	BDB Trucking	American Landfill Inc., Waynesburg OH	19.31	259
2/23/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	22.79	260
2/23/2009	53	BDB Trucking	American Landfill Inc., Waynesburg OH	19.89	261
2/23/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	16.18	262
2/23/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	16.41	263
2/23/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	16.24	264
2/23/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	15.63	265
2/23/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	16.73	266
2/23/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	25.01	267
2/23/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	22.52	268
2/23/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	20.78	269
2/23/2009	54	BDB Trucking	American Landfill Inc., Waynesburg OH	19.02	270
2/23/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	22.15	271
2/23/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.78	272
2/23/2009	53	BDB Trucking	American Landfill Inc., Waynesburg OH	19.62	273
2/23/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	18.8	274
2/24/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.97	275
2/24/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	14.82	276
2/24/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	15.07	277
2/24/2009	53	BDB Trucking	American Landfill Inc., Waynesburg OH	17.58	278

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Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
2/24/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	18.5	279
2/24/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	25.66	280
2/24/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	17.01	281
2/24/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	15.72	282
2/24/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	19.74	283
2/24/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	21.86	284
2/24/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	23.66	285
2/24/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	28.99	286
2/24/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	19.49	287
2/24/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	24.21	288
2/24/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	24.6	289
2/24/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	21.49	290
2/24/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	23.64	291
2/24/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	17.09	292
2/24/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	20.31	293
2/24/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	27.95	294
2/24/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	21.91	295
2/24/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	18.15	296
2/24/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	24.69	297
2/24/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	21.54	298
2/24/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	19.56	299
2/24/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	21.16	300
2/24/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	22.66	301
2/24/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	22.76	302
3/25/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	25.32	303
3/25/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	27.56	304
3/25/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	19.22	305
3/25/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	17.98	306
3/25/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	21.6	307
3/25/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	22.14	308
3/25/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	23.26	309
3/25/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	19.17	310
3/25/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	19.08	311
3/25/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	21.42	312
3/25/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	22.03	313
3/25/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	23.78	314
3/25/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	17.84	315
3/25/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	17.28	316
3/25/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	18.24	317
3/25/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	17.81	318
3/25/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	11.37	319
3/25/2009	3	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	28.51	320
3/25/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	22.96	321
3/25/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	18.99	322
3/25/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	18.11	323
3/25/2009	9	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	22.02	324

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Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
3/25/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	22.01	325
3/25/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	31.54	326
3/25/2009	6	Sebastiani Trucking	American Landfill Inc., Waynesburg OH	21.62	327
3/25/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	19.03	328
3/26/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.34	329
3/26/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	14.99	330
3/26/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	19.54	331
3/26/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	14.65	332
3/26/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	14.54	333
3/26/2009	37	BDB Trucking	American Landfill Inc., Waynesburg OH	15.64	334
3/26/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	13.63	335
3/26/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	14.86	336
3/26/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.72	337
3/26/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	14.77	338
3/26/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	21.96	339
3/26/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	14.71	340
3/26/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	14.4	341
3/26/2009	37	BDB Trucking	American Landfill Inc., Waynesburg OH	17.82	342
3/26/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	17.04	343
3/26/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	15.97	344
3/26/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	23.38	345
3/26/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	18.63	346
3/2/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	28.11	347
3/3/2009	81	BDB Trucking	American Landfill Inc., Waynesburg OH	14.55	348
3/4/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	18.75	349
3/5/2009	56	BDB Trucking	American Landfill Inc., Waynesburg OH	15.61	350
3/6/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	20.13	351
3/7/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	18.91	352
3/8/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	24.92	353
3/9/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	23.89	354
3/10/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	17.32	355
3/11/2009	56	BDB Trucking	American Landfill Inc., Waynesburg OH	12.51	356
3/12/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	14.32	357
3/13/2009	76	BDB Trucking	American Landfill Inc., Waynesburg OH	14.83	358
3/14/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	19.94	359
3/15/2009	77	BDB Trucking	American Landfill Inc., Waynesburg OH	23.22	360
3/16/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	20.57	361
3/3/2009	61	BDB Trucking	American Landfill Inc., Waynesburg OH	16.43	362
3/3/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	17.24	363
3/3/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	18.2	364
3/3/2009	61	BDB Trucking	American Landfill Inc., Waynesburg OH	19.12	365
3/3/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	16.48	366
3/3/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	25.9	367
3/3/2009	59	BDB Trucking	American Landfill Inc., Waynesburg OH	22.72	368
3/3/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	17.33	369
3/3/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	23.71	370

Table H-2
Winklepeck Burning Grounds
Soil Stockpile Removal Summary Table

DATE	TRUCK #	CARRIER	DISPOSAL FACILITY	TONS	BOL #
3/5/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	23.81	371
3/5/2009	29	BDB Trucking	American Landfill Inc., Waynesburg OH	18.69	372
3/5/2009	39	BDB Trucking	American Landfill Inc., Waynesburg OH	17.72	373
3/5/2009	34	BDB Trucking	American Landfill Inc., Waynesburg OH	19.17	374
3/5/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	19.88	375
3/5/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	22.75	376
3/5/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	26.22	377
3/5/2009	70	BDB Trucking	American Landfill Inc., Waynesburg OH	18.53	378
3/5/2009	46	BDB Trucking	American Landfill Inc., Waynesburg OH	19.56	379
3/5/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.56	380
3/6/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	17.34	381
3/6/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	14.84	382
3/6/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.05	383
3/6/2009	75	BDB Trucking	American Landfill Inc., Waynesburg OH	21.97	384
3/6/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	23.44	385
OVER-EXCAVATION ROUND 1					
3/24/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	28.03	001
3/24/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	20.8	002
3/24/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	23.56	003
3/24/2009	45	BDB Trucking	American Landfill Inc., Waynesburg OH	22.67	004
3/24/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	23.14	005
OVER-EXCAVATION ROUND 2					
4/28/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	19.76	001
4/28/2009	15	BDB Trucking	American Landfill Inc., Waynesburg OH	22.29	002
4/28/2009	54	BDB Trucking	American Landfill Inc., Waynesburg OH	19.13	003
4/28/2009	78	BDB Trucking	American Landfill Inc., Waynesburg OH	16.88	004
389 Loads			Total	7528.69	



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix I

Project Correspondence

Brian Stockwell

From: Jago, William K. [WILLIAM.K.JAGO@saic.com]
Sent: Friday, September 05, 2008 9:36 AM
To: Brian Stockwell
Subject: RE: Winklepeck Pad 67

That is correct.

PS – we did have RDX as high as 260 mg/kg at a 6 ft depth in a Phase III RI geoprobe boring we did at the WBG-071 location (WBG-252). The FS model included a 10 x10 ft area around each of WBG-071 and WBG-401 that exceeded the cleanup goal of 617 mg/kg. However, simply based on the amount of explosives we were seeing in the samples, it is highly likely that more than 10 x10 ft areas will have to be excavated.

kj

From: Brian Stockwell [mailto:bstockwell@pikainc.com]
Sent: Friday, September 05, 2008 8:51 AM
To: Jago, William K.
Subject: RE: Winklepeck Pad 67

Hi Kevin - I want to be sure I have this correct - So at Pad 67 the 2 samples which exceeded WBG RGO for RDX and required over excavation are the following:

WBG-071
WBG-401

Thanks

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135 office
330-352-6955 cell

From: Jago, William K. [mailto:WILLIAM.K.JAGO@saic.com]
Sent: Thu 9/4/2008 11:38 AM
To: Brian Stockwell
Subject: Winklepeck Pad 67

Brian –

It took me a little while to backtrack (wow – a lot of years have slipped by), but I have the answer.

“Station” 105 at Pad 67 is not the same as WBGss-105. “Station” 105 was a WBG ecological field truthing survey sampling plot about 4ft by 4ft. That is why the station has a non-conventional ID on the figure in the ROD.

6/9/2009

Surface soil samples (only the top few inches) were collected from this Plot 105 and two others on Pad 67 in 2000. Plot 105 and Plot 132 both had high RDX. I confirmed that Plot 105 was about 10 ft northeast of WBGss-071. Plot 132 was co-located with WBGss-071. Coordinates for Plot 105 are below. We could have/ should have been a bit more clear about this in the FS. Note that we later assigned a conventional station ID to these samples when loading them in RIEMS. I just never thought to later change the figures in the ROD.

Note the same thing applied to Pad 66 where eco-survey Plot 243 (not WBGss-243) exceeded RDX cleanup goal.

Station	Easting	Northing	Sample ID	Date Collected	Sample Type	Media	Comments
WBGss-401	2359025.51	563070.88	WB2013	8/8/2000	Grab	Soil	Pad 67

Hopefully, this answers the question. Please call if else is needed.

Sincerely,

K. Jago

Brian Stockwell

From: Eileen Mohr [eileen.mohr@epa.state.oh.us]
Sent: Wednesday, October 22, 2008 11:01 AM
To: Brian Stockwell
Subject: RE: FW: WBG Sampling Analysis Plan

Thanks Brian. Looks great.... run with it!

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Brian Stockwell" <bstockwell@pikainc.com> 10/20/08 2:07 PM >>>

Hi Eileen - got it - Thanks. Below is a draft of what I was going to send out for the record etc. - pls let me know if I left anything out or if I have missed the boat in any way: Thanks for taking the time to come out Friday and help clear things up and keep it moving!

For documentation purposes; below is a summary of what we discussed and came up with for sampling at Pad 61A:

During our site visit it was evident that when removal operations are completed to the specified elevations at Pad 61A the resultant excavation contours will closely match the surrounding terrain/topography and therefore there will not be any sidewalls to sample. As such, we decided that an additional floor sample should be collected in place of the sidewall sample that was planned for this location (as detailed in the approved RD/RA Work Plan) to ensure that the site is sufficiently evaluated relative to meeting the Remedial Action Objectives. To that end, Pad 61A confirmation sampling will include collection of two (2) floor samples; one from each half of the excavation area. Both samples will be collected using the Multi Increment (MI) soil sampling technique in accordance with Section 3.12 of the approved RD/RA Work Plan.

Also, during the site visit we discussed the status of Ohio EPA review of the Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP). You mentioned that since these documents are amendments to the previously approved March 2005 Work Plans for Winklepeck, and given the fact that Ohio EPA has reviewed and approved the Winklepeck RD/RA Work Plan which details all pertinent information regarding the number of samples and required analytes for each of the Removal Action excavation areas (i.e., Pads 61, 61A, 67 and 70); the RD/RA confirmation sampling operations can commence prior to review and official approval of the FSP and QAPP amendment documents.

Again, thanks for taking the time to come out and discuss the above to keep the project moving along. We will keep you updated on the timing for collecting the first RA confirmation soil samples at Pad 61A. If you have any questions or require any clarification pls do not hesitate to call.

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135 office
330-352-6955 cell

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Mon 10/20/2008 9:14 AM
To: Brian Stockwell
Cc: Bonnie Buthker; Eileen Mohr; Todd Fisher; Kathleen Anthony
Subject: Re: FW: WBG Sampling Analysis Plan

All

This is a minor change in the sampling scheme.. on the order of a field change. This does not impact the ROD at all. Brian can send an email and I will concur. This can then be put in the AAR document. That is all that needs to be done from my end.

Thanks.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Brian Stockwell" <bstockwell@pikainc.com> 10/20/2008 9:21 AM >>>
Hi Eileen - pls see Tom's question below on documentitng the slight change in the Work and let me know -

Thanks

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135 office
330-352-6955 cell

From: Chanda, Thomas M LRL [mailto:Thomas.M.Chanda@usace.army.mil]
Sent: Fri 10/17/2008 3:16 PM
To: Brian Stockwell
Cc: Kathleen Anthony; Shahrukh Kanga; mark.c.patterson@us.army.mil; Beckham, Glen LRL
Subject: RE: WBG Sampling Analysis Plan

Brian,

I have no problem with the change in the Work Plan. As long as Eileen is in agreement to that change. You may want to verify what type Post-ROD change this consititutes; I presume it may only be a minor change which would mean Document the change in the site files (Administrative Record too with a brief memorandum)that should be the end of it. If by chance it were deemed a significant change (which I presume is not but...) then it will require more documentation and formal notice. Clarify this with Eileen and document it.
Thanks. tomc

Thomas M. Chanda, Biologist
PO Box 59 Rm#722 PM-P-E
Louisville, KY 40201-0059

O-PH (502) 315-6868
FAX (502) 315-6864
NOTE EMAIL ADDRESS CHANGE: thomas.m.chanda@usace.army.mil

-----Original Message-----

From: Brian Stockwell [mailto:bstockwell@pikainc.com]
Sent: Friday, October 17, 2008 3:42 PM
To: Chanda, Thomas M LRL
Cc: Kathleen Anthony; Shahrukh Kanga
Subject: RE: WBG Sampling Analysis Plan

Hi Tom - FYI we were able to clean a lot of the staining up yesterday without going overboard as the areas were fairly shallow -

Also - I just got back from the site with Eileen and things look good for sampling - One thing we discussd was that due to the lay of land and the way the excavation ended up; there really are not any defined sidewalls to sample (since we basically excavated to pre-existing grade) - as such Eileen suggested that given the size of the floor of the excavation we should collect 2 floor samples in place of the one floor and one sidewall MI sample described in the WP - Let me know and I will follow up with an e-mail summary of the site visit and description of the change in the the sampling scheme for Pad 61A (for the record per Eileen)

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135 office
330-352-6955 cell

From: Chanda, Thomas M LRL [mailto:Thomas.M.Chanda@usace.army.mil]
Sent: Fri 10/17/2008 12:36 PM
To: Brian Stockwell
Subject: WBG Sampling Analysis Plan

Brian,

I was talking with Kate today and asked if you had spoke with Eileen concerning the MI sampling activities for next week. Is Eileen on-board with everything; agreeable, disagreeable, tentative? Thanks. tomc

Thomas M. Chanda, Biologist
PO Box 59 Rm#722 PM-P-E
Louisville, KY 40201-0059
O-PH (502) 315-6868
FAX (502) 315-6864
NOTE EMAIL ADDRESS CHANGE: thomas.m.chanda@usace.army.mil

Brian Stockwell

From: Kathleen Anthony [kanthony@mkmengineers.com]
Sent: Wednesday, November 19, 2008 6:20 PM
To: Eileen Mohr
Cc: Brian Stockwell; mark.c.patterson@us.army.mil; Beckham, Glen LRL; Chanda, Thomas M LRL; Srinu Neralla
Subject: Confirmation Sampling Results for Pad 67 at WBG
Attachments: Preliminary Data for A8K070404.pdf



Preliminary Data for
A8K070404...

Eileen,

Glen requested that I forward the latest confirmation sampling results and notify you that that high concentrations of TNT were detected in the Pad 67 confirmation samples. Since the laboratory was instructed to report only RDX, further dilution of the samples was not performed to bring TNT within the instrument calibration range for the two Pad 67 samples. Therefore, the results for the Pad 67 samples are only estimated values. The estimated TNT results were forwarded by the laboratory (via email) and are listed below. Preliminary RDX results are included in the attached pdf file and are less than the cleanup goal of 617 mg/kg. We have requested that the laboratory complete the sample analysis for TNT and report the final results.

Pad 67 TNT Results

*
WBGcs-071/401m-FLR-SO - 1,451 mg/kg - over range result
*
WBGcs-071/401m-SDW-SO - 1,604 mg/kg - over range result

Pad 61A TNT Results

*
WBGcs-P61Am-BOT(E)-SO - 11 mg/kg
*
WBGcs-P61Am-BOT(W)-SO - 2.7 mg/kg (confirmation analysis not run on this sample)

In the interim, Glen contacted Samantha Pack at SAIC to assess whether a risk based remediation goal for TNT have been established for WBG. Samantha came up with two numbers:

- 1) Mark 19 Range Soldier (using all assumptions from 2005 FFS) - 1935 ppm
- 2) Small Arms Range Maintenance Soldier - 2652 ppm (listed in the Draft FWHHCG Report)

The estimated concentrations of TNT in the samples from Pad 67 are less than both scenarios.

I will forward the final TNT concentrations when the analyses are complete and we can discuss the path forward at your convenience. Please contact me if you need additional information.

Sincerely,

Kate Anthony
Senior Project Manager
MKM Engineers, Inc.
Office: (916) 920-9146
Cell: (713) 724-2893

Brian Stockwell

From: Eileen Mohr [eileen.mohr@epa.state.oh.us]
Sent: Thursday, November 20, 2008 10:10 AM
To: kanthony@mkmengineers.com
Cc: Bonnie Buthker; Eileen Mohr; Todd Fisher; Glen.Beckham@lrl02.usace.army.mil; Brian Stockwell; Srinu Neralla; mark.c.patterson@us.army.mil; Thomas.M.Chanda@usace.army.mil
Subject: Re: Confirmation Sampling Results for Pad 67 at WBG

Hi Kate

Thanks for the heads-up and for following up with the lab on the final TNT results. Once we get the final results, we will be able to proceed. Please note that the numbers presented in the draft FWHHCG are just that... draft. This document has not been finalized. Question: in #1 below.. is that the Mark 19 Range Maintenance Soldier or the trainee?

Once you get the final results, we can all discuss. Again, thanks for the heads-up and also to the lab for reporting this info to you and you guys getting it to us. Very proactive of you.

Thanks.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us
>>> "Kathleen Anthony" <kanthony@mkmengineers.com> 11/19/08 6:28 PM >>>
Eileen,

Glen requested that I forward the latest confirmation sampling results and notify you that that high concentrations of TNT were detected in the Pad 67 confirmation samples. Since the laboratory was instructed to report only RDX, further dilution of the samples was not performed to bring TNT within the instrument calibration range for the two Pad 67 samples. Therefore, the results for the Pad 67 samples are only estimated values. The estimated TNT results were forwarded by the laboratory (via email) and are listed below. Preliminary RDX results are included in the attached pdf file and are less than the cleanup goal of 617 mg/kg. We have requested that the laboratory complete the sample analysis for TNT and report the final results.

Pad 67 TNT Results

*
WBGcs-071/401m-FLR-SO - 1,451 mg/kg - over range result
*
WBGcs-071/401m-SDW-SO - 1,604 mg/kg - over range result

Pad 61A TNT Results

*
WBGcs-P61Am-BOT(E)-SO - 11 mg/kg
*
WBGcs-P61Am-BOT(W)-SO - 2.7 mg/kg (confirmation analysis not run on this sample)

In the interim, Glen contacted Samantha Pack at SAIC to assess whether a risk based remediation goal for TNT have been established for WBG. Samantha came up with two numbers:

- 1) Mark 19 Range Soldier (using all assumptions from 2005 FFS) - 1935 ppm
- 2) Small Arms Range Maintenance Soldier - 2652 ppm (listed in the Draft FWHHCG Report)

The estimated concentrations of TNT in the samples from Pad 67 are less than both scenarios.

I will forward the final TNT concentrations when the analyses are complete and we can discuss the path forward at your convenience. Please contact me if you need additional information.

Sincerely,

Kate Anthony
Senior Project Manager
MKM Engineers, Inc.
Office: (916) 920-9146
Cell: (713) 724-2893

Brian Stockwell

From: Eileen Mohr [eileen.mohr@epa.state.oh.us]
Sent: Friday, November 21, 2008 3:48 PM
To: Brian Stockwell
Cc: Eileen Mohr; Todd Fisher; Kathleen Anthony; Shahrukh Kanga; Thomas.M.Chanda@usace.army.mil
Subject: Re: Confirmation sampling for the Berm south of Pad 61

Hi Brian

Thanks for the summary email. You have captured our discussion this afternoon very accurately. Good luck sampling on Monday. Have a Happy Thanksgiving.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Brian Stockwell" <bstockwell@pikainc.com> 11/21/08 2:56 PM >>>

Hi Eileen - Per our discussions this afternoon at the RVAAP, below is a summary of the decided upon path forward for collecting confirmation samples at the berm south of Pad 61:

The berm excavation area is approximately 108 feet X 92 feet and now closely matches the surrounding site contours (i.e., no excavation sidewalls). Additionally, sample point WBG-217, which is located on the north end of berm area is now completely removed. The Work Plan originally called for over-excavating sample point WBG-217 from the berm area and collecting one Multi-increment (MI) sidewall and one MI floor sample from the resultant excavation. However, with the berm now completely removed this is no longer applicable.

Given the layout of the completed berm excavation as described above, one MI soil sample will be collected across the surface of the berm excavation area (which also includes sample point WBG-217 area) to determine if COCs have been removed below the WBG cleanup goals. The MI soil sample for the berm area will be collected and analyzed for asbestos, explosives and SVOCs in accordance with the procedures described in Section 3.12 of the approved RD/RA Work Plan. At this time we anticipate initiating sampling operations at the berm area on Monday, November 24, 2008. If you have any questions or require any further clarifications pls do not hesitate to contact me..

Thanks very much for taking the time to come out and discuss the above to keep the project moving along.

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135 office
330-352-6955 cell

Brian Stockwell

From: Eileen Mohr [eileen.mohr@epa.state.oh.us]
Sent: Thursday, December 11, 2008 3:09 PM
To: Kathleen Anthony
Cc: Bonnie Buthker; Eileen Mohr; Todd Fisher; Brian Stockwell
Subject: Re: FW: Winklepeck confirmatory samples

Hi Kate

I had a look at the info that you sent and also discussed it with Bonnie. I'll try and accurately reflect what Bonnie and I discussed... but if I goofed up... Bonnie will jump in. Also, let us know if you need further discussion.

In looking at the sidewall and floor results for Pad 71, the TNT results for the two samples cannot be directly compared to the preliminary draft (PD) clean up goal (CUG) for the range maintenance soldier (2652 mg/kg). The same samples also have (at a minimum) another contaminant of concern (COC): RDX. What needs to be looked at is the target organs for the identified COCs. For TNT the target organ is the liver and in the RDX tox profile... it looks like the liver may also be a target organ. If this is the case then minimally, the 2652 mg/kg number would need to be halved (or 1326 mg/kg) because we have additivity issues. That would mean the CUG for TNT would be 1326 mg/kg and both the sidewall and the floor samples exceed that number. This would result in the need for more excavation. [Again, the halving of the number is minimal... if there are other COCs, it should be less.]

My guess is that you will want to bounce this off of USACE in terms of volumes etc... but from looking at the numbers that we have... our first thought is that there needs to be additional excavation.

Sorry to be the bearer of bad news.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Kathleen Anthony" <kanthony@pikainc.com> 12/11/2008 11:32 AM >>>
Eileen,

The most recent Winklepeck results are attached.

Kate Anthony
Senior Project Manager
5025 Arnold Avenue
McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

Brian Stockwell

From: Kathleen Anthony
Sent: Monday, December 22, 2008 1:37 PM
To: Thomas M LRL Chanda (thomas.m.chanda@us.army.mil); Beckham, Glen LRL
Cc: Brian Stockwell
Subject: Sample Results
Attachments: Preliminary%20Data%20for%20A8L150187.pdf

Tom/Glen,

Using the calculations we discussed, the results look like they are less than the risk-based remediation goals.

Sample WBGcs-071/401m-FLR2-SO
TNT- 44/1935 =0.0227 RDX 43/617=0.0697.
The sum is 0.0924 which is less than 1.

Sample WBGcs-071/401m-SDW2-SO
TNT- 110/1935 =0.0568 RDX 15/617=0.0243.
The sum is 0.0811 which is less than 1.

However, low-level concentrations of HMX, 1,3,5-TNB, 4-amino-2,6-DNT and 2-amino-4,6-DNT were also detected. The concentrations and risk-based goals will also have to be added to the calculation. could you forward the risk-based goals for HMX, 1,3,5-TNB, 4-amino-2,6-DNT and 2-amino-4,6-DNT ? Thanks.

Kate Anthony
Senior Project Manager
5025 Arnold Avenue
McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

6/9/2009

Brian Stockwell

From: Eileen Mohr [eileen.mohr@epa.state.oh.us]
Sent: Wednesday, January 07, 2009 3:05 PM
To: Brian Stockwell; Kathleen Anthony; Shahram Taherinia; mark.c.patterson@us.army.mil; Angela.l.schmidt@usace.army.mil; Glen.Beckham@usace.army.mil; Nathaniel.Peters.II@usace.army.mil; Thomas.M.Chanda@usace.army.mil
Cc: Bonnie Buthker; Todd Fisher
Subject: RE: WBG Sample Results and Path Forward

Yes.

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us
>>> "Kathleen Anthony" <kanthony@pikainc.com> 01/07/09 2:36 PM >>>
Eileen,

I would like to clarify that the SVOCs we will be sampling for are the five PAHs listed in the work plan. Is this correct? Thanks.

Kate Anthony
Senior Project Manager
5025 Arnold Avenue
McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Wed 1/7/2009 11:00 AM
To: Brian Stockwell; Kathleen Anthony; Shahram Taherinia; mark.c.patterson@us.army.mil; Angela.l.schmidt@usace.army.mil; Glen.Beckham@usace.army.mil; Nathaniel.Peters.II@usace.army.mil; Thomas.M.Chanda@usace.army.mil
Cc: Bonnie Buthker; Eileen Mohr; Todd Fisher
Subject: WBG Sample Results and Path Forward

All

Here is the path forward on WBG:

1. PIKA went out and looked at the Pad 67 liner today. Because of the inclement weather (ice/snow), the liner is floating. PIKA will pump off the water and containerize it in a tank. This will allow for soil sampling (see below). If the soil SVOC results come back okay... PIKA can discharge the water directly to the ground surface following established RVAAP procedures/protocols. (Recent results have indicated that explosives are not an issue in the soil at this pad.)
2. I spoke with Brian this AM. PIKA will sample (using MI techniques) Pad 67 for SVOCs. This will most likely occur next Monday (as they need to wait for the tank to get on site) and will not mess up PIKA's schedule (in terms of waiting for/evaluating results). They can be off-loading other soil in the interim, or backfilling other areas (see #4 below)..
3. I reviewed the recent results sent to me by Sharam regarding the proposed backfill material. Based upon the analytical results, MEC FILL-001 is acceptable to use for backfill purposes.
4. Bonnie and I reviewed the TestAmerica data sent to us yesterday. We have no issues

with the explosives concentrations present in the soil. RDX is below the established cleanup number and TNT is well below any number that would be established. As such, subsequent to review and approval of the Pad 67 SVOC results, this area can be backfilled as needed. In the interim, based upon reviewed analytical data, the other excavated areas can be filled in and brought back to grade.

Any questions, please contact me. Thanks.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us
>>> "Chanda, Thomas M LRL" <Thomas.M.Chanda@usace.army.mil> 01/06/09
>>> 3:08 PM >>>

Eileen,

Attached is the TestAmerica Lab direct analysis plus PIKA's cumulative spreadsheet for all Pads (61, 61A, 67, & 70) for which being the last two columns represent Pad#67 last round analyses post most recent excavation following the TNT excursion. Any questions, certainly call or email me.
Thanks. tomc

Thomas M. Chanda, Biologist
PO Box 59 Rm#722 PM-P-E
Louisville, KY 40201-0059
O-PH (502)315-6868
FAX (502) 315-6864
NOTE EMAIL ADDRESS CHANGE: thomas.m.chanda@usace.army.mil

-----Original Message-----

From: Kathleen Anthony [mailto:kanthony@pikainc.com]
Sent: Monday, December 22, 2008 1:37 PM
To: Chanda, Thomas M LRL; Beckham, Glen LRL
Cc: Brian Stockwell
Subject: Sample Results

Tom/Glen,

Using the calculations we discussed, the results look like they are less than the risk-based remediation goals.

Sample WBGcs-071/401m-FLR2-SO
TNT- 44/1935 =0.0227 RDX 43/617=0.0697.
The sum is 0.0924 which is less than 1.

Sample WBGcs-071/401m-SDW2-SO
TNT- 110/1935 =0.0568 RDX 15/617=0.0243.
The sum is 0.0811 which is less than 1.

However, low-level concentrations of HMX, 1,3,5-TNB, 4-amino-2,6-DNT and 2-amino-4,6-DNT were also detected. The concentrations and risk-based goals will also have to be added to the calculation. could you forward the risk-based goals for HMX, 1,3,5-TNB, 4-amino-2,6-DNT and 2-amino-4,6-DNT ?
Thanks.

Kate Anthony
Senior Project Manager
5025 Arnold Avenue

McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

Brian Stockwell

From: Robison, Eric [RRobison@wm.com]
Sent: Wednesday, January 21, 2009 9:11 AM
To: Brian Stockwell
Subject: RE: Waste Management Agreement

Brian,

It looks like everything checks out and we are good to go. **REMEMBER**...each shipment needs to be scheduled with me 24 hours in advance. So please let me know when you are planning on shipping and how many loads we should expect each day. Thanks!

ERic

-----Original Message-----

From: Brian Stockwell [mailto:bstockwell@pikainc.com]
Sent: Tuesday, January 20, 2009 3:16 PM
To: Robison, Eric
Subject: FW: Waste Management Agreement

Hi Eric - attached is the signed Disposal Agreement - any questions let me know - Thanks

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135

From: Michelle Burton
Sent: Tue 1/20/2009 2:06 PM
To: Brian Stockwell
Cc: Shahrukh Kanga
Subject: FW: Waste Management Agreement

Brian

Here is the signed agreement.

Michelle Burton
Manager, Corporate Affairs
PIKA International, Inc.
12723 Capricorn Dr., Suite 500
Stafford, Texas 77477
281.340.5525 (Main)
281.325-6866 (Direct) ++New Number++
281.325-6865 (Fax) ++New Number++
281.682-7656 (Cell)
mburton@pikainc.com
www.pikainc.com
Building a Clean & Secure Future

Brian Stockwell

From: Chanda, Thomas M LRL [Thomas.M.Chanda@usace.army.mil]
Sent: Wednesday, March 18, 2009 8:35 AM
To: Eileen Mohr
Cc: Todd Fisher; Kathleen Anthony; Brian Stockwell
Subject: RE: FW: status of WBG site restoration

Thanks, Eileen. Greatly appreciate your help and support. tomc

Thomas M. Chanda, Biologist
PO Box 59 Rm#722 PM-P-E
Louisville, KY 40201-0059
O-PH (502) 315-6868
FAX (502) 315-6864
"Service to the Nation"

-----Original Message-----

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Tuesday, March 17, 2009 1:39 PM
To: bstockwell@pikainc.com
Cc: Eileen Mohr; Todd Fisher; kanthony@pikainc.com; skanga@pikainc.com; Chanda, Thomas M LRL
Subject: Re: FW: status of WBG site restoration

Hi Brian

Sounds good. Go for it.

Thanks.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us
>>> "Brian Stockwell" <bstockwell@pikainc.com> 03/17/09 1:21 PM >>>
Hi Eileen - a couple weeks ago we discussed initiating the backfilling and restoration operations for the WBG excavation sites as soon as weather allows
- We will likely start picking away at this starting next week as site conditions improve
- As a refresher, attached to this e-mail is our trail of e-mails showing where we left off in January with respect to how to proceed with the site restoration activities.

To summarize this is where we are right now:

1. Ohio EPA has approved our source of the off site fill for the areas that need backfilled. (see your e-mail below from 1-7-09)
2. The water that has accumulated in Pad 67 area excavation since the end of January and receipt of the "clean sample results" can be discharged to the site following Ohio EPA requirements. (see your e-mail from 1-7-09)
3. Site conditions are close to being conducive for final site surveying, final site grading and backfilling - we anticipate beginning these next week or so.

Any questions pls let me know -

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Thu 1/22/2009 12:34 PM
To: Bonnie Buthker; Todd Fisher; Kathleen Anthony
Cc: Brian Stockwell; Sue Boles; thomas.m.chanda@us.army.mil
Subject: RE: WBG Sample Results

You bet.....

>>> "Kathleen Anthony" <kanthony@pikainc.com> 1/22/2009 1:31 PM >>>
Eileen,

We should have the final data next week and will backfill the excavation when the weather cooperates. Thank you for all of your help and support.

Kate Anthony
Senior Project Manager
5025 Arnold Avenue
McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Thu 1/22/2009 9:56 AM
To: Bonnie Buthker; Todd Fisher; Kathleen Anthony
Cc: Eileen Mohr; Brian Stockwell; Sue Boles; thomas.m.chanda@us.army.mil
Subject: Re: WBG Sample Results

Hi Kate:

Sorry for the delay in getting back to you.

I have reviewed the SVOC data. The results are all below the established CUGS. Unless you think the results will change from the preliminary report to the final; it is okay to backfill the pad area with the approved fill.

Thanks for your work on this.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Kathleen Anthony" <kanthony@pikainc.com> 1/19/2009 3:11 PM >>>
Eileen,

The preliminary results for the PAH sampling at WBG are listed in the attached spreadsheet. I have also included the laboratory reports for your review. Please let me know if you need anything else.

Kate Anthony

Senior Project Manager
5025 Arnold Avenue
McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Wed 1/7/2009 12:05 PM
To: Brian Stockwell; Kathleen Anthony; Shahram Taherinia; mark.c.patterson@us.army.mil; Angela.l.schmidt@usace.army.mil; Glen.Beckham@usace.army.mil; Nathaniel.Peters.II@usace.army.mil; Thomas.M.Chanda@usace.army.mil
Cc: Bonnie Buthker; Todd Fisher
Subject: RE: WBG Sample Results and Path Forward

Yes.

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us
>>> "Kathleen Anthony" <kanthony@pikainc.com> 01/07/09 2:36 PM >>>
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results). They can be off-loading other soil in the interim, or backfilling other areas (see #4 below)..

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Any questions, please contact me. Thanks.

Eileen

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330-963-1221
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email: Eileen.Mohr@epa.state.oh.us
>>> "Chanda, Thomas M LRL" <Thomas.M.Chanda@usace.army.mil> 01/06/09
>>> 3:08 PM >>>

Eileen,

Attached is the TestAmerica Lab direct analysis plus PIKA's cumulative spreadsheet for all Pads (61, 61A, 67, & 70) for which being the last two columns represent Pad#67 last round analyses post most recent excavation following the TNT excursion. Any questions, certainly call or email me.
Thanks. tomc

Thomas M. Chanda, Biologist
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Louisville, KY 40201-0059
O-PH (502)315-6868
FAX (502) 315-6864
NOTE EMAIL ADDRESS CHANGE: thomas.m.chanda@usace.army.mil

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From: Kathleen Anthony [mailto:kanthony@pikainc.com]
Sent: Monday, December 22, 2008 1:37 PM
To: Chanda, Thomas M LRL; Beckham, Glen LRL
Cc: Brian Stockwell
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Tom/Glen,


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Sample WBGcs-071/401m-FLR2-SO
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Thanks.

Kate Anthony
Senior Project Manager
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McClellan, CA 95652
Phone: (916) 920-9146
Fax: (916) 920-9163

 You replied on 4/3/2009 9:39 AM.

Brian Stockwell

From: Eileen Mohr [eileen.mohr@epa.state.oh.us]

Sent: Thu 4/2/2009 8:29 PM

To: Brian Stockwell

Cc: Eileen Mohr; Todd Fisher

Subject: Re: WBG MEC Demo Notification

Attachments:

Hi Brian

Thanks for the re-send of the notification procedure. It accurately reflects what you and I had previously discussed and agreed upon. Specifically, with respect to surface water sampling, this requirement was waived by Ohio EPA due to the short duration of the operation and the minimal amount of MEC being destroyed.

Have a good weekend.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response
2110 East Aurora Road
Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Brian Stockwell" <bstockwell@pikainc.com> 04/02/09 12:15 PM >>>

Hi Eileen - per our recent conversation - attached pls a copy of the Ohio EPA MEC Demolition Notification with the verbage we used specific to the surface water sampling requirements - any questions pls let me know

Thanks,

Brian Stockwell
Project Manager
PIKA International, Inc.
330-358-7135

Brian Stockwell

From: Elgin, Kathryn S CIV NGOH [katie.elgin@us.army.mil] **Sent:** Mon 6/1/2009 8:37 AM
To: Chanda, Thomas M LRL; Morgan, Timothy M CIV NGOH; Patterson, Mark C Mr CIV USA OSA; Beckham, Glen LRL; Peters, Nathaniel II LRL; Eileen Mohr; Todd Fisher; Kathleen Anthony; Brian Stockwell
Cc:
Subject: RE: Final WBG Walk-Thru on RA f/ Pads #61/61A, 67, & 70 (UNCLASSIFIED)
Attachments:

Classification: UNCLASSIFIED
Caveats: NONE

Tom:

I am not available at any time on June 9 as I have a training class in Columbus. I will also need to check with SFC Hufenbach to make sure the range is not hot and to see if he is available on that date as he is an important piece in the site restoration (to make sure he is satisfied with the end result).

Katie

-----Original Message-----

From: Chanda, Thomas M LRL [mailto:Thomas.M.Chanda@usace.army.mil]
Sent: Monday, June 01, 2009 9:08 AM
To: Elgin, Kathryn S CIV NGOH; Morgan, Timothy M CIV NGOH; Patterson, Mark C Mr CIV USA OSA; Beckham, Glen LRL; Peters, Nathaniel II LRL; Eileen Mohr; Todd Fisher; Kathleen Anthony; Brian Stockwell
Subject: Final WBG Walk-Thru on RA f/ Pads #61/61A, 67, & 70

To All,

Being that completed physical restoration has taken place, we would like to have the subject walk-thru Tuesday 9JUN'09 at 1130 Hrs. We will be doing this between PIKA's Rocket Ridge Kickoff meeting and LRL's MI Sampling presentation. We are limited to alternate days due to the Fulton PR training being held in Streetsboro so hopefully we can all arrange to meeting at WBG on the prescribed day and time. Of course, if the range is under use that day/week then other plans will have to be made.

Thank you. tomc

Thomas M. Chanda, Biologist
PO Box 59 Rm#722 PM-P-E
Louisville, KY 40201-0059
O-PH (502)315-6868
FAX (502) 315-6864
"Service to the Nation"

Classification: UNCLASSIFIED
Caveats: NONE



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix J

Field Forms and Analytical Data

**WBG - SAMPLE KEY
CONFIRMATION SAMPLES**

	<i>SAMPLE ID</i>	Sample Date
Post Excavation		
PAD 61A	WBGcs-P61Am-BOT(E)-SO	11/6/2008
	WBGcs-P61Am-BOT(W)-SO	11/6/2008
PAD 67	WBGcs-071/401m-FLR-SO	11/6/2008
	WBGcs-071/401m-SDW-SO	11/6/2008
	WBGcs-071/401m-SDW-ER	11/6/2008
	WBGcs-071/401m-FLR2-SO	12/15/2008
	WBGcs-071/401m-SDW2-SO	12/15/2008
	WBGcs-071/401m-FLR2-SO	1/12/2009
	WBGcs-071/401m-SDW2-SO	1/12/2009
PAD 61	WBGcs-P61m-SDW-SO	11/24/2008
	WBGcs-P61m-SDW-DUP	11/24/2008
	WBGcs-P61m-BOT-SO	11/24/2008
PAD 61 BERM	WBGcs-P61m-BERM2-SO	12/4/2008
PAD 70	WBGcs-P70m-SFC-SO	11/24/2008
Excavation Stockpile Soils		
	WBG-BSP-001	12/10/2008
	WBG-BSP-002	12/10/2008
	WBG-SSP-003	12/10/2008
Demolition Area 2 - MI Samples		
	DA2ss-132M-0953-SO	2/10/2009
	DA2ss-133M-0954-SO	2/10/2009
	DA2ss-134M-0955-SO	2/10/2009
	DA2ss-135M-0956-SO	2/10/2009

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-P61Am-BOT(E)-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/6/08 Weather: Sunny Temperature: 55°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	X Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 125 hrs Sample Type: Composite - MI Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
Sample Depth: 0-3' FT (below surface) Decon: Dedicated - Each Day Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)	X	TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals		Sulfate	QA Samples			
Temperature	°C	Pesticides/PCBs		Asbestos	MS/MSD	Yes / No	NA	
Sp. Conductance:	uMHOs	Cyanides		pH	Duplicate ID		NA	
pH	units	TOC		RDX	X	Equipment Rinse ID		NA
Turbidity	N.T.U.	Grain Size				Trip-Blank ID		NA

Sample Description

DK Brown, no odor, no stain
Poorly sorted, non plastic
moist silty clay & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: S.T. (Please Print)

Signature: [Signature] Date: 4/24/09

PIKA International, Inc.

Client Sample ID: WBGcs-P61Am-BOT(E)-SO

HPLC

Lot-Sample #....: A8K070404-001 Work Order #....: K2H8J1AD Matrix.....: SO
 Date Sampled...: 11/06/08 11:25 Date Received...: 11/07/08
 Prep Date.....: 11/11/08 Analysis Date...: 11/13/08
 Prep Batch #....: 8316622
 Dilution Factor: 1 Initial Wgt/Vol: 2 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 2.0 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
2,4,6-Trinitrotoluene	12	0.25	mg/kg
RDX	ND	0.25	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
3,4-Dinitrotoluene	98	(50 - 150)

PIKA International, Inc.

Client Sample ID: WBGcs-P61Am-BOT(E)-SO

GC/MS Semivolatiles

Lot-Sample #....: A8K070404-001 Work Order #....: K2H8J1AC Matrix.....: SO
 Date Sampled....: 11/06/08 11:25 Date Received...: 11/07/08
 Prep Date.....: 11/10/08 Analysis Date...: 11/12/08
 Prep Batch #....: 8315059
 Dilution Factor: 10 Initial Wgt/Vol: 30.04 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 2.0 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzo (a) anthracene	4300	68	ug/kg
Benzo (b) fluoranthene	5400	68	ug/kg
Benzo (a) pyrene	3900	68	ug/kg
Indeno (1,2,3-cd) pyrene	2300	68	ug/kg
Dibenzo (a, h) anthracene	800	68	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	26 DIL, *	(50 - 150)
2-Fluorobiphenyl	32 DIL, *	(50 - 150)
Terphenyl-d14	42 DIL, *	(50 - 150)
Phenol-d5	32 DIL, *	(50 - 150)
2-Fluorophenol	32 DIL, *	(50 - 150)
2,4,6-Tribromophenol	45 DIL, *	(50 - 150)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-P61Am-BOT(W)-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/6/08

Weather: Sunny

Temperature: 55°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1105 hrs

Sample Type: Composite MI - Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3" FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings:	VOC		TPH GRO		Corrosivity			
Background: <u>0-0</u> ppm	SVOC (PAHs)	X	TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: <u>0-0</u> ppm	Propellants		Nitrate					
Water Level	TAL Metals		Sulfate		QA Samples			
Temperature	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance:	Cyanides		pH		Duplicate ID		NA	
pH	TOC		RDX	X	Equipment Rinse ID		NA	
Turbidity	Grain Size				Trip Blank ID		NA	

Sample Description

Dr Brown, no odor, no stains
poorly sorted, non plastic
massive, moist silty clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/20/09

PIKA International, Inc.

Client Sample ID: WBGcs-P61Am-BOT(W)-SO

HPLC

Lot-Sample #....: A8K070404-002 Work Order #....: K2H8R1AD Matrix.....: SO
 Date Sampled....: 11/06/08 11:05 Date Received...: 11/07/08
 Prep Date.....: 11/11/08 Analysis Date...: 11/13/08
 Prep Batch #....: 8316622
 Dilution Factor: 1 Initial Wgt/Vol: 2 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 1.6 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
2,4,6-Trinitrotoluene	2.7	0.25	mg/kg
RDX	0.089 J	0.25	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
3,4-Dinitrotoluene	82	(50 - 150)

NOTE(S) :

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: WBGcs-P61Am-BOT(W)-SO

GC/MS Semivolatiles

Lot-Sample #...: A8K070404-002 Work Order #...: K2H8R1AC Matrix.....: SO
 Date Sampled...: 11/06/08 11:05 Date Received...: 11/07/08
 Prep Date.....: 11/10/08 Analysis Date...: 11/12/08
 Prep Batch #...: 8315059
 Dilution Factor: 4 Initial Wgt/Vol: 30.05 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 1.6 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzo(a)anthracene	1400	27	ug/kg
Benzo(b)fluoranthene	1500	27	ug/kg
Benzo(a)pyrene	1200	27	ug/kg
Indeno(1,2,3-cd)pyrene	660	27	ug/kg
Dibenzo(a,h)anthracene	250	27	ug/kg

SURROGATE	PERCENT		RECOVERY
	RECOVERY		LIMITS
Nitrobenzene-d5	58	DIL	(50 - 150)
2-Fluorobiphenyl	61	DIL	(50 - 150)
Terphenyl-d14	81	DIL	(50 - 150)
Phenol-d5	65	DIL	(50 - 150)
2-Fluorophenol	64	DIL	(50 - 150)
2,4,6-Tribromophenol	76	DIL	(50 - 150)

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-071/401m-FLR-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/6/08 Weather: Sunny Temperature: 55

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1205 hrs Sample Type: Composite - MI Grab 30 Location: Plotted on Map Staked in Field
If MI, # of increments taken: 30
Sample Depth: 0-3" FT (below surface) Decon: Dedicated - Each Day - Each Location
Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate					
Water Level FT	TAL Metals		Sulfate		QA Samples			
Temperature °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID		NA	
pH units	TOC		RDX	X	Equipment Rinse ID		NA	
Turbidity N.T.U.	Grain Size				Trip-Blank ID		NA	

Sample Description

DK Brown, no odor, no stains
poorly sorted, non plastic, massive
moist silt & clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: S.T. (Please Print)

Signature: [Signature] Date: 4/21/09

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-FLR-SO

HPLC

Lot-Sample #....: A8K070404-003 Work Order #....: K2H8V1AC Matrix.....: SO
 Date Sampled....: 11/06/08 12:05 Date Received...: 11/07/08
 Prep Date.....: 11/11/08 Analysis Date...: 11/20/08
 Prep Batch #....: 8316622
 Dilution Factor: 199 Initial Wgt/Vol: 2.01 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 2.1 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4,6-Trinitrotoluene	1500	50	mg/kg
RDX	91	50	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	0.0 SRD,*	(50 - 150)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

* Surrogate recovery is outside stated control limits.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-071/401m-SDW-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/6/08

Weather: Sunny

Temperature: 55°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	X Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1145 hrs

Sample Type: Composite - (MI) Grab 30
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3" FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings: Background: <u>0.0</u> ppm	VOC	TPH GRO	Corrosivity	
	SVOC (PAHs)	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	Chromium +6	Ignitability	
Sample: <u>0.0</u> ppm	Propellants	Nitrate		
Water Level	FT	TAL Metals	Sulfate	
Temperature	°C	Pesticides/PCBs	Asbestos	
Sp. Conductance:	uMHOs	Cyanides	pH	
pH	units	TOC	RDX	X
Turbidity	N.T.U.	Grain Size		
		QA Samples MS/MSD Yes / <u>No</u> NA Duplicate ID Yes / <u>No</u> NA Equipment Rinse ID <u>Yes</u> / No NA Trip Blank ID Yes / <u>No</u> NA		

Sample Description

Brown, no odor, no stains
massive, poorly sorted, low plasticity
moist silt clay with trace of sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/21/09

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-SDW-SO

HPLC

Lot-Sample #....: A8K070404-004 Work Order #....: K2H811AC Matrix.....: SO
 Date Sampled...: 11/06/08 11:45 Date Received...: 11/07/08
 Prep Date.....: 11/11/08 Analysis Date...: 11/20/08
 Prep Batch #....: 8316622
 Dilution Factor: 200 Initial Wgt/Vol: 2 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 2.0 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4,6-Trinitrotoluene	1600	50	mg/kg
RDX	570	50	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	0.0 SRD,*	(50 - 150)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

* Surrogate recovery is outside stated control limits.

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-SDW-ER

HPLC

Lot-Sample #...: A8K070404-005 Work Order #...: K2H831AA Matrix.....: WQ
 Date Sampled...: 11/06/08 09:30 Date Received...: 11/07/08
 Prep Date.....: 11/12/08 Analysis Date...: 11/12/08
 Prep Batch #...: 8317140
 Dilution Factor: 1.11 Initial Wgt/Vol: 900.94 m Final Wgt/Vol...: 20 mL
 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
2,4,6-Trinitrotoluene	ND	0.11	ug/L
RDX	ND	0.11	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
3,4-Dinitrotoluene	94	(50 - 150)

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-071/401m-FLR2-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 12/15/08

Weather: Cloudy / Rain

Temperature: 50°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1250 hrs

Sample Type: Composite - MI - Grab

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)

PID / FID Readings:

Background: 0.0 ppm

Sample: 0.0 ppm

Water Level

FT

Temperature

°C

Sp. Conductance:

uMHOs

pH

units

Turbidity

N.T.U.

Analytical Parameters

VOC

TPH GRO

SVOC (PAHs)

TPH DRO

Explosives

X

Chromium +6

Propellants

Nitrate

TAL Metals

Sulfate

Pesticides/PCBs

Asbestos

Cyanides

pH

TOC

RDX

Grain Size

Other Parameters

Corrosivity

Reactivity Sulfide/Cyanide

Ignitability

QA Samples

MS/MSD

Yes / No

NA

Duplicate ID

NA

Equipment Rinse ID

NA

Trip Blank ID

NA

Sample Description

DK Brown, wet, non plastic
massive, poorly sorted, silt & clay
with some gravel

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: [Signature] (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 12/16/08

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-FLR2-SO

HPLC

Lot-Sample #....: A8L150187-001 Work Order #....: K4QJF1AA Matrix.....: SO
 Date Sampled....: 12/15/08 12:50 Date Received...: 12/15/08
 Prep Date.....: 12/17/08 Analysis Date...: 12/18/08
 Prep Batch #....: 8352485
 Dilution Factor: 5 Initial Wgt/Vol: 2 g Final Wgt/Vol...: 40 mL
 % Moisture.....: Method.....: SW846 8330

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4,6-Trinitrotoluene	44	1.2	mg/kg
RDX	43	1.2	mg/kg
1,3-Dinitrobenzene	ND	1.2	mg/kg
2,4-Dinitrotoluene	ND	1.2	mg/kg
2,6-Dinitrotoluene	ND	1.2	mg/kg
Nitrobenzene	ND	1.2	mg/kg
Nitroglycerin	ND	2.5	mg/kg
1,3,5-Trinitrobenzene	0.69 J	1.2	mg/kg
HMX	11	1.2	mg/kg
Tetryl	ND	1.2	mg/kg
2-Nitrotoluene	ND	1.2	mg/kg
3-Nitrotoluene	ND	1.2	mg/kg
4-Nitrotoluene	ND	1.2	mg/kg
4-Amino-2,6-dinitrotoluene	0.87 J	1.2	mg/kg
2-Amino-4,6-dinitrotoluene	0.72 J	1.5	mg/kg
PETN	ND	2.5	mg/kg
PERCENT		RECOVERY	
SURROGATE	RECOVERY	LIMITS	
3,4-Dinitrotoluene	104	(50 - 150)	

NOTE(S):

J Estimated result. Result is less than RL.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-071/401m-SDW2-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 12/15/08

Weather: Cloudy / Rain

Temperature: 30°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1320 hrs

Sample Type: Composite MI - Grab

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: <u>0.0</u> ppm	SVOC (PAHs)	Reactivity Sulfide/Cyanide
	Explosives X	Ignitability
Sample: <u>0.0</u> ppm	Propellants	
	Nitrate	
Water Level FT	TAL Metals	QA Samples
Temperature °C	Sulfate	MS/MSD Yes / No NA
Sp. Conductance: uMHOs	Pesticides/PCBs	Duplicate ID Yes / No NA
pH	Asbestos	Equipment Rinse ID Yes / No NA
Turbidity N.T.U.	pH	Trip Blank ID Yes / No NA
	TOC	
	Grain Size	

Sample Description

DK met, wet, poorly sorted
non plastic silt & clay & gravel

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: [Signature]

Signature: Sue Boles Date: 12/16/08

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-SDW2-SO

HPLC

Lot-Sample #....: A8L150187-002 Work Order #....: K4QJJ1AA Matrix.....: SO
 Date Sampled....: 12/15/08 13:20 Date Received...: 12/15/08
 Prep Date.....: 12/17/08 Analysis Date...: 12/18/08
 Prep Batch #....: 8352485
 Dilution Factor: 9.95 Initial Wgt/Vol: 2.01 g Final Wgt/Vol...: 40 mL
 % Moisture.....: Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4,6-Trinitrotoluene	110	2.5	mg/kg
RDX	15	2.5	mg/kg
1,3-Dinitrobenzene	ND	2.5	mg/kg
2,4-Dinitrotoluene	0.54 J	2.5	mg/kg
2,6-Dinitrotoluene	ND	2.5	mg/kg
Nitrobenzene	ND	2.5	mg/kg
Nitroglycerin	ND	5.0	mg/kg
1,3,5-Trinitrobenzene	0.49 J	2.5	mg/kg
HMX	6.3	2.5	mg/kg
Tetryl	ND	2.5	mg/kg
2-Nitrotoluene	ND	2.5	mg/kg
3-Nitrotoluene	ND	2.5	mg/kg
4-Nitrotoluene	ND	2.5	mg/kg
4-Amino-2,6-dinitrotoluene	1.2 J	2.5	mg/kg
2-Amino-4,6-dinitrotoluene	ND	3.0	mg/kg
PETN	ND	5.0	mg/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
3,4-Dinitrotoluene	0.0 SRD,*	(50 - 150)	

NOTE (S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-071/401m-FLR2-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 1/12/09 Weather: cloudy Temperature: 20

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop	✓	Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	✓	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1600 hrs Sample Type: Composite MI Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30 Estimated - Measured - Surveyed
Sample Depth: 0-6' FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)	X	TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate		QA Samples MS/MSD Yes / No NA Duplicate ID NA Equipment Rinse ID NA Trip Blank ID NA			
Water Level FT	TAL Metals		Sulfate					
Temperature °C	Pesticides/PCBs		Asbestos					
Sp. Conductance: uMHOs	Cyanides		pH					
pH units	TOC		RDX					
Turbidity N.T.U.	Grain Size							

Sample Description

DK Brown, NO stain, massive texture
poorly sorted, low plasticity,
wet, silt & sandy clay with some
gravel.

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: [Signature] (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 1/12/09

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-FLR2-SO

GC/MS Semivolatiles

Lot-Sample #....: A9A130116-002 Work Order #....: K5PNN1AC Matrix.....: SO
 Date Sampled...: 01/12/09 16:00 Date Received...: 01/13/09
 Prep Date.....: 01/14/09 Analysis Date...: 01/16/09
 Prep Batch #....: 9014020
 Dilution Factor: 1 Initial Wgt/Vol: 30.07 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 2.3 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo(a,h)anthracene	ND	6.8	ug/kg
Benzo(a)anthracene	31	6.8	ug/kg
Benzo(b)fluoranthene	40	6.8	ug/kg
Benzo(a)pyrene	33	6.8	ug/kg
Indeno(1,2,3-cd)pyrene	22	6.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	64	(50 - 150)
2-Fluorobiphenyl	67	(50 - 150)
Terphenyl-d14	96	(50 - 150)
Phenol-d5	64	(50 - 150)
2-Fluorophenol	59	(50 - 150)
2,4,6-Tribromophenol	82	(50 - 150)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-071/401m-SDW2-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 1/12/09 Weather: cloudy Temperature: 20

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe <input checked="" type="checkbox"/> Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1540 hrs Sample Type: Composite MI Grab 30 Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6 FT (below surface) Decont: Dedicated - Each Day - Each Location Estimated Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings:	VOC	TPH GRO	Corrosivity	
Background: ppm	SVOC (PAHs) X	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	Chromium +6	Ignitability	
Sample: ppm	Propellants	Nitrate		
Water Level FT	TAL Metals	Sulfate	QA Samples	
Temperature °C	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No NA
Sp. Conductance: uMHOs	Cyanides	pH	Duplicate ID	Yes / No NA
pH units	TOC	RDX	Equipment Rinse ID	Yes / No NA
Turbidity N.T.U.	Grain Size		Trip Blank ID	Yes / No NA

Sample Description

Split Sample

Dk Brown, no stain, massive
poorly sorted, non plastic, wet
silty clay with some sand & gravel

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: [Signature] (Please Print)

Reviewed by: [Signature] (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 1/12/09

PIKA International, Inc.

Client Sample ID: WBGcs-071/401m-SDW2-SO

GC/MS Semivolatiles

Lot-Sample #....: A9A130116-001 Work Order #....: K5PNF1AC Matrix.....: SO
 Date Sampled....: 01/12/09 15:40 Date Received...: 01/13/09
 Prep Date.....: 01/14/09 Analysis Date...: 01/16/09
 Prep Batch #....: 9014020
 Dilution Factor: 1 Initial Wgt/Vol: 30.1 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 1.9 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo(a,h)anthracene	240	6.8	ug/kg
Benzo(a)anthracene	900	6.8	ug/kg
Benzo(b)fluoranthene	1600	6.8	ug/kg
Benzo(a)pyrene	1000	6.8	ug/kg
Indeno(1,2,3-cd)pyrene	750	6.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(50 - 150)
2-Fluorobiphenyl	76	(50 - 150)
Terphenyl-d14	101	(50 - 150)
Phenol-d5	71	(50 - 150)
2-Fluorophenol	46 *	(50 - 150)
2,4,6-Tribromophenol	67	(50 - 150)

NOTE(S) :

* Surrogate recovery is outside stated control limits.
 Results and reporting limits have been adjusted for dry weight.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-P61m-SDW-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/24/08 Weather: Cloudy Temperature: 33°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	<input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 0925 hrs Sample Type: Composite - MI - Grab 20 Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 20 Estimated - Measured - Surveyed
Sample Depth: 0-3 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings: Background: <u>0.0</u> ppm	VOC	TPH GRO	Corrosivity	
	SVOC (PAHs) <u>X</u>	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives <u>X</u>	Chromium +6	Ignitability	
Sample: <u>0.0</u> ppm	Propellants	Nitrate		
Water Level <u>FT</u>	TAL Metals	Sulfate	QA Samples	
Temperature <u>°C</u>	Pesticides/PCBs	Asbestos	MS/MSD	Yes / <u>No</u> NA
Sp. Conductance: <u>uMHOs</u>	Cyanides	pH <u>7.26</u>	Duplicate ID	<u>Yes</u> / No NA
pH <u>units</u>	TOC	RDX	Equipment Rinse ID	Yes / <u>No</u> NA
Turbidity <u>N.T.U.</u>	Grain Size		Trip Blank ID	Yes / <u>No</u> NA

Sample Description

DK Brown, No odor, No Stain
poorly sorted, massive, low plasticity
moist silty clay sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Bates (Please Print)

Signature: Sue Bates

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 12/1/09

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-SDW-SO

GC/MS Semivolatiles

Lot-Sample #....: A8K240170-002 Work Order #....: K3KRW1AC Matrix.....: SO
 Date Sampled....: 11/24/08 09:25 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 12/02/08
 Prep Batch #....: 8331025
 Dilution Factor: 4 Initial Wgt/Vol: 30.03 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 2.3 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo (a, h) anthracene	210	27	ug/kg
Benzo (a) anthracene	1500	27	ug/kg
Benzo (b) fluoranthene	1600	27	ug/kg
Benzo (a) pyrene	1300	27	ug/kg
Indeno (1, 2, 3-cd) pyrene	740	27	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	56 DIL	(50 - 150)
2-Fluorobiphenyl	61 DIL	(50 - 150)
Terphenyl-d14	73 DIL	(50 - 150)
Phenol-d5	65 DIL	(50 - 150)
2-Fluorophenol	69 DIL	(50 - 150)
2,4,6-Tribromophenol	65 DIL	(50 - 150)

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-SDW-SO

HPLC

Lot-Sample #....: A8K240170-002 Work Order #....: K3KRW1AE Matrix.....: SO
 Date Sampled....: 11/24/08 09:25 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 11/29/08
 Prep Batch #....: 8331514
 Dilution Factor: 0.98 Initial Wgt/Vol: 2.03 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 2.3 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4,6-Trinitrotoluene	0.38	0.24	mg/kg
RDX	0.20 J	0.24	mg/kg
1,3-Dinitrobenzene	ND	0.24	mg/kg
2,4-Dinitrotoluene	0.027 J	0.24	mg/kg
2,6-Dinitrotoluene	ND	0.24	mg/kg
Nitrobenzene	ND	0.24	mg/kg
Nitroglycerin	ND	0.49	mg/kg
1,3,5-Trinitrobenzene	0.036 J	0.24	mg/kg
HMX	0.16 J	0.24	mg/kg
Tetryl	ND	0.24	mg/kg
2-Nitrotoluene	ND	0.24	mg/kg
3-Nitrotoluene	ND	0.24	mg/kg
4-Nitrotoluene	ND	0.24	mg/kg
4-Amino-2,6-dinitrotoluene	0.17 J	0.24	mg/kg
2-Amino-4,6-dinitrotoluene	0.26 J	0.29	mg/kg
PETN	ND	0.49	mg/kg
SURROGATE	PERCENT		RECOVERY
	RECOVERY	LIMITS	
3,4-Dinitrotoluene	99	(50 - 150)	

NOTE(S):

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-SDW-DUP

GC/MS Semivolatiles

Lot-Sample #...: A8K240170-003 Work Order #...: K3KRX1AC Matrix.....: SO
 Date Sampled...: 11/24/08 09:25 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 12/02/08
 Prep Batch #...: 8331025
 Dilution Factor: 12.5 Initial Wgt/Vol: 30.11 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 2.2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo(a,h)anthracene	740	85	ug/kg
Benzo(a)anthracene	4700	85	ug/kg
Benzo(b)fluoranthene	4500	85	ug/kg
Benzo(a)pyrene	3700	85	ug/kg
Indeno(1,2,3-cd)pyrene	2000	85	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	52 DIL	(50 - 150)
2-Fluorobiphenyl	58 DIL	(50 - 150)
Terphenyl-d14	74 DIL	(50 - 150)
Phenol-d5	60 DIL	(50 - 150)
2-Fluorophenol	60 DIL	(50 - 150)
2,4,6-Tribromophenol	81 DIL	(50 - 150)

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-SDW-DUP

HPLC

Lot-Sample #....: A8K240170-003 Work Order #....: K3KRX1AE Matrix.....: SO
 Date Sampled....: 11/24/08 09:25 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 11/29/08
 Prep Batch #....: 8331514
 Dilution Factor: 0.99 Initial Wgt/Vol: 2.01 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 2.2 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4,6-Trinitrotoluene	0.37 PG	0.25	mg/kg
RDX	0.21 J	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
Nitrobenzene	0.17 J	0.25	mg/kg
Nitroglycerin	0.15 J	0.50	mg/kg
1,3,5-Trinitrobenzene	0.023 J	0.25	mg/kg
HMX	0.14 J	0.25	mg/kg
Tetryl	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
4-Nitrotoluene	ND	0.25	mg/kg
4-Amino-2,6-dinitrotoluene	0.17 J	0.25	mg/kg
2-Amino-4,6-dinitrotoluene	0.26 J	0.30	mg/kg
PETN	ND	0.50	mg/kg
PERCENT		RECOVERY	
SURROGATE	RECOVERY	LIMITS	
3,4-Dinitrotoluene	102	(50 - 150)	

NOTE(S) :

PG The percent difference between the original and confirmation analyses is greater than 40%.

J Estimated result. Result is less than RL.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-P61m-BOT-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/24/08 Weather: Cloudy Temperature: 34°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	X Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 0945 hrs Sample Type: Composite - MI - Grab 30
If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
Sample Depth: 03 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC		TPH GRO	Corrosivity		
Background: <u>0.0</u> ppm	SVOC (PAHs)	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: <u>0.0</u> ppm	Propellants		Nitrate			
Water Level	TAL Metals		Sulfate	QA Samples		
Temperature	Pesticides/PCBs		Asbestos	MS/MSD	Yes / No	NA
Sp. Conductance:	Cyanides		pH	Duplicate ID	Yes / No	NA
pH	TOC		RDX	Equipment Rinse ID	Yes / No	NA
Turbidity	Grain Size			Trip Blank ID	Yes / No	NA

Sample Description

DK Brown, NO odor, NO smell
poorly sorted, nonplastic, massive
moist clayey silt & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: S.F. (Please Print)

Signature: [Signature] Date: 4/21/09

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-BOT-SO

GC/MS Semivolatiles

Lot-Sample #....: A8K240170-004 Work Order #....: K3KR01AC Matrix.....: SO
 Date Sampled....: 11/24/08 09:45 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 12/02/08
 Prep Batch #....: 8331025
 Dilution Factor: 20 Initial Wgt/Vol: 30.03 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 2.8 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo(a,h)anthracene	1400	140	ug/kg
Benzo(a)anthracene	7800	140	ug/kg
Benzo(b)fluoranthene	7800	140	ug/kg
Benzo(a)pyrene	6700	140	ug/kg
Indeno(1,2,3-cd)pyrene	3400	140	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	56 DIL	(50 - 150)
2-Fluorobiphenyl	63 DIL	(50 - 150)
Terphenyl-d14	71 DIL	(50 - 150)
Phenol-d5	64 DIL	(50 - 150)
2-Fluorophenol	68 DIL	(50 - 150)
2,4,6-Tribromophenol	102 DIL	(50 - 150)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-BOT-SO

HPLC

Lot-Sample #...: A8K240170-004 Work Order #...: K3KR01AE Matrix.....: SO
 Date Sampled...: 11/24/08 09:45 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 11/29/08
 Prep Batch #...: 8331514
 Dilution Factor: 0.99 Initial Wgt/Vol: 2.02 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 2.8 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4,6-Trinitrotoluene	5.2	0.25	mg/kg
RDX	1.8	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	0.13 J	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
Nitrobenzene	0.26	0.25	mg/kg
Nitroglycerin	7.8	0.50	mg/kg
1,3,5-Trinitrobenzene	0.56	0.25	mg/kg
HMX	1.0	0.25	mg/kg
Tetryl	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
4-Nitrotoluene	ND	0.25	mg/kg
4-Amino-2,6-dinitrotoluene	0.70 PG	0.25	mg/kg
2-Amino-4,6-dinitrotoluene	0.70	0.30	mg/kg
PETN	ND	0.50	mg/kg
		PERCENT	RECOVERY
		RECOVERY	LIMITS
3,4-Dinitrotoluene	102	(50 - 150)	

NOTE(S):

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-P61-Berm2-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 12/04/08 Weather: cloudy Temperature: 34°F

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	X Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1015 hrs Sample Type: Composite MI Grab 30 Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30
Sample Depth: 0-3 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings: Background: <u>0.0</u> ppm	VOC	TPH GRO	Corrosivity	
	SVOC (PAHs)	X TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	X Chromium +6	Ignitability	
Sample: <u>0.0</u> ppm	Propellants	Nitrate		
Water Level	TAL Metals	Sulfate	QA Samples	
Temperature	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No NA
Sp. Conductance:	Cyanides	pH	Duplicate ID	Yes / No NA
pH	TOC	RDX	Equipment Rinse ID	Yes / No NA
Turbidity	Grain Size		Trip Blank ID	Yes / No NA

Sample Description

DK Brown, no odor, no stain
poorly sorted, low plasticity
massive wet silty clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Shirley Boles (Please Print)

Signature: Shirley Boles

Reviewed by: S.T. (Please Print)

Signature: [Signature] Date: 4/12/09

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-BERM2-SO

GC/MS Semivolatiles

Lot-Sample #....: A8L040346-001 Work Order #....: K338X1AC Matrix.....: SO
 Date Sampled....: 12/04/08 10:15 Date Received...: 12/04/08
 Prep Date.....: 12/05/08 Analysis Date...: 12/08/08
 Prep Batch #....: 8340060
 Dilution Factor: 1 Initial Wgt/Vol: 30.16 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 1.5 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo(a,h)anthracene	ND	6.8	ug/kg
Benzo(a)anthracene	96	6.8	ug/kg
Benzo(b)fluoranthene	120	6.8	ug/kg
Benzo(a)pyrene	86	6.8	ug/kg
Indeno(1,2,3-cd)pyrene	64	6.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	57	(50 - 150)
2-Fluorobiphenyl	57	(50 - 150)
Terphenyl-d14	70	(50 - 150)
Phenol-d5	64	(50 - 150)
2-Fluorophenol	62	(50 - 150)
2,4,6-Tribromophenol	60	(50 - 150)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBGcs-P61m-BERM2-SO

HPLC

Lot-Sample #....: A8L040346-001 Work Order #....: K338X1AD Matrix.....: SO
 Date Sampled....: 12/04/08 10:15 Date Received...: 12/04/08
 Prep Date.....: 12/08/08 Analysis Date...: 12/09/08
 Prep Batch #....: 8343329
 Dilution Factor: 1 Initial Wgt/Vol: 2 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 1.5 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4,6-Trinitrotoluene	0.078 J	0.25	mg/kg
RDX	0.30	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
Nitrobenzene	ND	0.25	mg/kg
Nitroglycerin	ND	0.50	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
HMX	0.24 J	0.25	mg/kg
Tetryl	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
4-Nitrotoluene	ND	0.25	mg/kg
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
2-Amino-4,6-dinitrotoluene	ND	0.30	mg/kg
PETN	ND	0.50	mg/kg
PERCENT		RECOVERY	
SURROGATE		LIMITS	
3,4-Dinitrotoluene	96	(50 - 150)	

NOTE(S):

J Estimated result. Result is less than RL.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-P70m-SFC-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/24/08 Weather: Cloudy Temperature: 33°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	X Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 0905 hrs Sample Type: Composite - MI Grab 30 Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30
Sample Depth: 0-3 FT (below surface) Decon: Dedicated - Each Day - Each Location
Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO	Corrosivity		
	SVOC (PAHs)	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: <u>0.0</u> ppm	Propellants		Nitrate			
Water Level	FT	TAL Metals	Sulfate	QA Samples		
Temperature	°C	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No	NA
Sp. Conductance:	uMHOs	Cyanides	pH	Duplicate ID	Yes / No	NA
pH	units	TOC	RDX	Equipment Rinse-ID	Yes / No	NA
Turbidity	N.T.U.	Grain Size		Trip Blank ID	Yes / No	NA

Sample Description

DK Brown, no odor, no sheen
poorly sorted, non plastic, massive
moist silt & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Bates (Please Print)

Signature: Sue Bates

Reviewed by: S.T (Please Print)

Signature: [Signature] Date: 4/21/09

PIKA International, Inc.

Client Sample ID: WBGcs-P70m-SFC-SO

GC/MS Semivolatiles

Lot-Sample #....: A8K240170-001 Work Order #....: K3KRR1AC Matrix.....: SO
 Date Sampled....: 11/24/08 09:05 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 12/02/08
 Prep Batch #....: 8331025
 Dilution Factor: 4 Initial Wgt/Vol: 30.07 g Final Wgt/Vol...: 2 mL
 % Moisture.....: 3.2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dibenzo(a,h)anthracene	ND	28	ug/kg
Benzo(a)anthracene	310	28	ug/kg
Benzo(b)fluoranthene	480	28	ug/kg
Benzo(a)pyrene	310	28	ug/kg
Indeno(1,2,3-cd)pyrene	180	28	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	62 DIL	(50 - 150)
2-Fluorobiphenyl	73 DIL	(50 - 150)
Terphenyl-d14	87 DIL	(50 - 150)
Phenol-d5	72 DIL	(50 - 150)
2-Fluorophenol	70 DIL	(50 - 150)
2,4,6-Tribromophenol	81 DIL	(50 - 150)

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBGcs-P70m-SFC-SO

HPLC

Lot-Sample #....: A8K240170-001 Work Order #....: K3KRR1AE Matrix.....: SO
 Date Sampled....: 11/24/08 09:05 Date Received...: 11/24/08
 Prep Date.....: 11/26/08 Analysis Date...: 11/29/08
 Prep Batch #....: 8331514
 Dilution Factor: 0.98 Initial Wgt/Vol: 2.04 g Final Wgt/Vol...: 40 mL
 % Moisture.....: 3.2 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4,6-Trinitrotoluene	12	0.24	mg/kg
RDX	18	0.24	mg/kg
1,3-Dinitrobenzene	ND	0.24	mg/kg
2,4-Dinitrotoluene	ND	0.24	mg/kg
2,6-Dinitrotoluene	ND	0.24	mg/kg
Nitrobenzene	ND	0.24	mg/kg
Nitroglycerin	ND	0.49	mg/kg
1,3,5-Trinitrobenzene	ND	0.24	mg/kg
HMX	4.3	0.24	mg/kg
Tetryl	ND	0.24	mg/kg
2-Nitrotoluene	ND	0.24	mg/kg
3-Nitrotoluene	ND	0.24	mg/kg
4-Nitrotoluene	ND	0.24	mg/kg
4-Amino-2,6-dinitrotoluene	0.77	0.24	mg/kg
2-Amino-4,6-dinitrotoluene	0.36	0.29	mg/kg
PETN	ND	0.49	mg/kg
SURROGATE	PERCENT	RECOVERY	
	RECOVERY	LIMITS	
3,4-Dinitrotoluene	101	(50 - 150)	

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: **RVAAP - WINKLEPECK RA**

Location ID: **WBG-BSP-001**

Date: **12/10/2008**

Weather: **Overcast**

Temperature: **38**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: **0900** hrs

Sample Type: **Composite** - MI - Grab

Location: **Plotted on Map - Staked in Field**

If MI, # of increments taken:

Estimated - Measured - Surveyed

Sample Depth: **0-6"** FT (below surface)

Decon: **Dedicated** Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters	
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity	
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives	X	Chromium +6		Ignitability	
Sample: ppm	Propellants		Nitrate			
Water Level: FT	TAL Metals		Sulfate		QA Samples	
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No NA
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	NA
pH: units	TOC		Full TCLP	X	Equipment Rinse ID	NA
Turbidity: N.T.U.	Grain Size				Trip Blank ID	NA

Sample Description

color = **DK Brown** odor = **no odor**
 staining = **NO Stains** texture = **massive**
 sorting = **poorly sorted** plasticity = **non plastic**
 moisture = **wet**

Sample was collected from **Big StockPile**

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: **ST** (Please Print)

Reviewed by: **Sue Boles** (Please Print)

Signature: _____

Signature: **Sue Boles** Date: **12/16/08**

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-004-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8330
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107529

Analytical Method: SW8330
Date Analyzed: 12/26/2008
Time Analyzed: 23:30
Analysis Batch: 120651

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,3,5-Trinitrobenzene	BQL	100	ug/kg	U	1
1,3-Dinitrobenzene	BQL	100	ug/kg	U	1
2,4,6-Trinitrotoluene	320	100	ug/kg		1
2,4-Dinitrotoluene	BQL	100	ug/kg	U	1
2,6-Dinitrotoluene	BQL	100	ug/kg	U	1
2-Amino-4,6-Dinitrotoluene	100	100	ug/kg		1
4-Amino-2,6-Dinitrotoluene	130	100	ug/kg		1
HMX	110	200	ug/kg	J	1
Nitrobenzene	BQL	100	ug/kg	U	1
RDX	860	200	ug/kg		1
Tetryl	BQL	200	ug/kg	U	1
m-Nitrotoluene	BQL	200	ug/kg	U	1
o-Nitrotoluene	BQL	200	ug/kg	U	1
p-Nitrotoluene	BQL	200	ug/kg	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001

GPL ID: 812089-001-001-1/1

Matrix: SOIL

Date Collected: 12/10/2008

Date Received: 12/11/2008

Prep Method: SW3010A

Prep Date: 12/15/2008

Prep Time: 10:00

Prep Batch: 107274

Analytical Method: SW6010B_TCLP

Date Analyzed: 12/22/2008

Time Analyzed: 01:49

Analysis Batch: 120527

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	2280	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	960	100	ug/L		1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW7470A_DIG
Prep Date: 12/15/2008
Prep Time: 16:00
Prep Batch: 107288

Analytical Method: SW7471A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 10:52
Analysis Batch: 120526

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3520C
Prep Date: 12/15/2008
Prep Time: 12:30
Prep Batch: 107271

Analytical Method: SW8081A_TCLP
Date Analyzed: 12/15/2008
Time Analyzed: 19:58
Analysis Batch: 120106

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8151
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107294

Analytical Method: SW8151A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 14:38
Analysis Batch: 120107

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW5030B
Prep Date: 12/18/2008
Prep Time: 09:25
Prep Batch: 107445

Analytical Method: SW8260B_TCLP
Date Analyzed: 12/18/2008
Time Analyzed: 17:39
Analysis Batch: 120400

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3510C
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107285

Analytical Method: SW8270C_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 06:25
Analysis Batch: 120104

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: RVAAP - WINKLEPECK RA

Location ID: WBG-BSP-002

Date: 12/10/2008

Weather: Overcast

Temperature: 38

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 0430 hrs

Sample Type: Composite - MI - Grab

Location: Plotted on Map - Staked in Field

If MI, # of increments taken: _____

Estimated - Measured - Surveyed

Sample Depth: 0-6" FT (below surface)

Decon: Dedicated Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters	
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity	
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives	X	Chromium +6		Ignitability	
Sample: ppm	Propellants		Nitrate			
Water Level: FT	TAL Metals		Sulfate		QA Samples	
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No NA
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	NA
pH: units	TOC		Full TCLP	X	Equipment Rinse ID	NA
Turbidity: N.T.U.	Grain Size				Trip Blank ID	NA

Sample Description

color = dk Brown odor = non
 staining = non texture = native
 sorting = poorly sorted plasticity = non plastic
 moisture = wet

Sample was collected from Big StockPile

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: _____

Signature: Sue Boles Date: 12/10/08

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-002-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8330
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107529

Analytical Method: SW8330
Date Analyzed: 12/27/2008
Time Analyzed: 00:56
Analysis Batch: 120651

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,3,5-Trinitrobenzene	BQL	100	ug/kg	U	1
1,3-Dinitrobenzene	BQL	100	ug/kg	U	1
2,4,6-Trinitrotoluene	16000	100	ug/kg		1
2,4-Dinitrotoluene	100	100	ug/kg	J	1
2,6-Dinitrotoluene	70	100	ug/kg	J	1
2-Amino-4,6-Dinitrotoluene	2600	100	ug/kg		1
4-Amino-2,6-Dinitrotoluene	3100	100	ug/kg		1
HMX	1500	200	ug/kg		1
Nitrobenzene	BQL	100	ug/kg	U	1
RDX	20000	200	ug/kg		1
Tetryl	BQL	200	ug/kg	U	1
m-Nitrotoluene	BQL	200	ug/kg	U	1
o-Nitrotoluene	BQL	200	ug/kg	U	1
p-Nitrotoluene	BQL	200	ug/kg	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3010A
Prep Date: 12/15/2008
Prep Time: 10:00
Prep Batch: 107274

Analytical Method: SW6010B_TCLP
Date Analyzed: 12/22/2008
Time Analyzed: 02:14
Analysis Batch: 120527

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	1780	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	439	100	ug/L		1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW7470A_DIG
Prep Date: 12/15/2008
Prep Time: 16:00
Prep Batch: 107288

Analytical Method: SW7471A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 11:08
Analysis Batch: 120526

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3520C
Prep Date: 12/15/2008
Prep Time: 12:30
Prep Batch: 107271

Analytical Method: SW8081A_TCLP
Date Analyzed: 12/15/2008
Time Analyzed: 20:29
Analysis Batch: 120106

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8151
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107294

Analytical Method: SW8151A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 15:03
Analysis Batch: 120107

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW5030B
Prep Date: 12/18/2008
Prep Time: 09:25
Prep Batch: 107445

Analytical Method: SW8260B_TCLP
Date Analyzed: 12/18/2008
Time Analyzed: 18:19
Analysis Batch: 120400

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3510C
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107285

Analytical Method: SW8270C_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 07:04
Analysis Batch: 120104

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1

PIKA
INTERNATIONAL, INC.

Temperature 36

Signature: Sue Bates Date: 12/16/08

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-003-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8330
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107529

Analytical Method: SW8330
Date Analyzed: 12/27/2008
Time Analyzed: 01:39
Analysis Batch: 120651

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,3,5-Trinitrobenzene	BQL	99	ug/kg	U	1
1,3-Dinitrobenzene	BQL	99	ug/kg	U	1
2,4,6-Trinitrotoluene	BQL	99	ug/kg	U	1
2,4-Dinitrotoluene	BQL	99	ug/kg	U	1
2,6-Dinitrotoluene	BQL	99	ug/kg	U	1
2-Amino-4,6-Dinitrotoluene	860	99	ug/kg		1
4-Amino-2,6-Dinitrotoluene	1100	99	ug/kg		1
HMX	2200	200	ug/kg		1
Nitrobenzene	220	99	ug/kg		1
RDX	4300	200	ug/kg		1
Tetryl	BQL	200	ug/kg	U	1
m-Nitrotoluene	BQL	200	ug/kg	U	1
o-Nitrotoluene	BQL	200	ug/kg	U	1
p-Nitrotoluene	BQL	200	ug/kg	U	1

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3010A
Prep Date: 12/15/2008
Prep Time: 10:00
Prep Batch: 107274

Analytical Method: SW6010B_TCLP
Date Analyzed: 12/22/2008
Time Analyzed: 02:18
Analysis Batch: 120527

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	2030	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	373	100	ug/L		1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW7470A_DIG
Prep Date: 12/15/2008
Prep Time: 16:00
Prep Batch: 107288

Analytical Method: SW7471A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 11:12
Analysis Batch: 120526

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3520C
Prep Date: 12/15/2008
Prep Time: 12:30
Prep Batch: 107271

Analytical Method: SW8081A_TCLP
Date Analyzed: 12/15/2008
Time Analyzed: 21:00
Analysis Batch: 120106

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8151
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107294

Analytical Method: SW8151A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 15:28
Analysis Batch: 120107

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW5030B
Prep Date: 12/18/2008
Prep Time: 09:25
Prep Batch: 107445

Analytical Method: SW8260B_TCLP
Date Analyzed: 12/18/2008
Time Analyzed: 18:59
Analysis Batch: 120400

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3510C
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107285

Analytical Method: SW8270C_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 07:44
Analysis Batch: 120104

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: DA2ss-132M-0953-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 02/10/09 Weather: Partly Cloudy Temperature: 54°

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1055 hrs Sample Type: Composite (MI) - Grab 30
If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location
Estimated - Measured (Surveyed)

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives	X	Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants	X	Nitrate					
Water Level <u>FT</u>	TAL Metals	X	Sulfate		QA Samples			
Temperature <u>°C</u>	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: <u>uMHOs</u>	Cyanides		pH		Duplicate ID	Yes / No	NA	
pH <u>units</u>	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity <u>N.T.U.</u>	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description
10yr 4/3, no odor, no staining,
silty clay ch, 50% clay 40% silt
10% fine to medium sand, medium
plasticity, moist

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: S.T. (Please Print)

Signature: [Signature] Date: 4/20/09

PIKA International, Inc.

Client Sample ID: DA2ss-132M-0953-SO

HPLC

Lot-Sample #....: A9B100247-001 Work Order #....: K61M61A6 Matrix.....: SO
 Date Sampled....: 02/10/09 10:55 Date Received...: 02/10/09
 Prep Date.....: 02/16/09 Analysis Date...: 02/19/09
 Prep Batch #....: 9047236
 Dilution Factor: 0.98
 % Moisture.....: 3.1 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.020
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.049
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.020
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.020
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.029
2-Amino-4,6- dinitrotoluene	ND	0.24	mg/kg	0.098
2-Nitrotoluene	ND	0.24	mg/kg	0.078
3-Nitrotoluene	ND	0.24	mg/kg	0.069
4-Amino-2,6- dinitrotoluene	0.043 J	0.24	mg/kg	0.020
4-Nitrotoluene	ND	0.24	mg/kg	0.078
HMX	0.037 J	0.24	mg/kg	0.029
Nitrobenzene	ND	0.24	mg/kg	0.049
Nitroglycerin	ND	0.49	mg/kg	0.13
PETN	ND	0.49	mg/kg	0.16
RDX	ND	0.24	mg/kg	0.039
Tetryl	ND	0.24	mg/kg	0.049
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
3,4-Dinitrotoluene	93	(78 - 108)		

NOTE (S) :

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-132M-0953-SO

HPLC

Lot-Sample #....: A9B100247-001 Work Order #....: K61M61A5 Matrix.....: SO
Date Sampled...: 02/10/09 10:55 Date Received...: 02/10/09
Prep Date.....: 02/16/09 Analysis Date...: 02/19/09
Prep Batch #....: 9047244
Dilution Factor: 1
% Moisture.....: 3.1 Method.....: SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

PIKA International, Inc.

Client Sample ID: DA2ss-132M-0953-SO

General Chemistry

Lot-Sample #....: A9B100247-001 Work Order #....: K61M6 Matrix.....: SO
Date Sampled....: 02/10/09 10:55 Date Received...: 02/10/09
% Moisture.....: 3.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.0	mg/kg	MCAWW 353.2	02/19-02/20/09	9050187
		Dilution Factor: 1		MDL.....: 0.78		
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD	02/11-02/12/09	9042379
		Dilution Factor: 1		MDL.....: 10.0		

PIKA International, Inc.

Client Sample ID: DA2ss-132M-0953-SO

TOTAL Metals

Lot-Sample #....: A9B100247-001

Matrix.....: SO

Date Sampled....: 02/10/09 10:55 Date Received...: 02/10/09

% Moisture.....: 3.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 9042020						
Aluminum	8300	20.6	mg/kg	SW846 6010B	02/11/09	K61M61AC
		Dilution Factor: 1		MDL.....: 9.9		
Arsenic	14.5	1.0	mg/kg	SW846 6010B	02/11/09	K61M61AX
		Dilution Factor: 1		MDL.....: 0.31		
Lead	32.1 E	1.0	mg/kg	SW846 6010B	02/11/09	K61M61A0
		Dilution Factor: 1		MDL.....: 0.20		
Antimony	0.74 B	10.3	mg/kg	SW846 6010B	02/11/09	K61M61AD
		Dilution Factor: 1		MDL.....: 0.40		
Barium	82.3 J	1.0	mg/kg	SW846 6010B	02/11/09	K61M61AE
		Dilution Factor: 1		MDL.....: 0.073		
Selenium	ND	1.0	mg/kg	SW846 6010B	02/11/09	K61M61A1
		Dilution Factor: 1		MDL.....: 0.46		
Beryllium	0.49 B	1.0	mg/kg	SW846 6010B	02/11/09	K61M61AF
		Dilution Factor: 1		MDL.....: 0.044		
Thallium	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61M61A2
		Dilution Factor: 1		MDL.....: 0.57		
Cadmium	1.4	1.0	mg/kg	SW846 6010B	02/11/09	K61M61AG
		Dilution Factor: 1		MDL.....: 0.037		
Calcium	9510 J	103	mg/kg	SW846 6010B	02/11/09	K61M61AH
		Dilution Factor: 1		MDL.....: 16.5		
Chromium	18.5	2.1	mg/kg	SW846 6010B	02/11/09	K61M61AJ
		Dilution Factor: 1		MDL.....: 0.21		
Cobalt	8.7 E	2.1	mg/kg	SW846 6010B	02/11/09	K61M61AK
		Dilution Factor: 1		MDL.....: 0.17		
Copper	113	2.1	mg/kg	SW846 6010B	02/11/09	K61M61AL
		Dilution Factor: 1		MDL.....: 0.76		
Iron	21600	20.6	mg/kg	SW846 6010B	02/11/09	K61M61AM
		Dilution Factor: 1		MDL.....: 5.1		

(Continued on next page)

PIKA International, Inc.

Client Sample ID: DA2ss-132M-0953-SO

TOTAL Metals

Lot-Sample #....: A9B100247-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Magnesium	3690 J	103	mg/kg	SW846 6010B	02/11/09	K61M61AN
		Dilution Factor: 1		MDL.....: 5.3		
Manganese	353 J	1.0	mg/kg	SW846 6010B	02/11/09	K61M61AP
		Dilution Factor: 1		MDL.....: 0.076		
Nickel	25.5	2.1	mg/kg	SW846 6010B	02/11-02/12/09	K61M61AQ
		Dilution Factor: 1		MDL.....: 0.28		
Potassium	1010 J	516	mg/kg	SW846 6010B	02/11/09	K61M61AR
		Dilution Factor: 1		MDL.....: 6.4		
Silver	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61M61AT
		Dilution Factor: 1		MDL.....: 0.10		
Sodium	ND	103	mg/kg	SW846 6010B	02/11-02/12/09	K61M61AU
		Dilution Factor: 1		MDL.....: 68.1		
Vanadium	12.9	2.1	mg/kg	SW846 6010B	02/11/09	K61M61AV
		Dilution Factor: 1		MDL.....: 0.12		
Zinc	193	4.1	mg/kg	SW846 6010B	02/11/09	K61M61AW
		Dilution Factor: 1		MDL.....: 1.0		
Mercury	0.21	0.10	mg/kg	SW846 7471A	02/11-02/16/09	K61M61A3
		Dilution Factor: 1		MDL.....: 0.015		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: DA2ss-133M-0954-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 02/10/09 Weather: Partly Cloudy Temperature: 54°

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1110 hrs Sample Type: Composite - (MI) Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30 Estimated - Measured - Surveyed
Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives	X	Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants	X	Nitrate					
Water Level FT	TAL Metals	X	Sulfate		QA Samples			
Temperature °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA	
pH units	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description

10 yr 4/3, no odor, no staining, clayey silt,
ml, 50% silt, 35% clay, 15% fine
to coarse sand, rock fragments, low to
medium plasticity, moist

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: S.T (Please Print)

Signature: _____ Date: 4/29/09

PIKA International, Inc.

Client Sample ID: DA2ss-133M-0954-SO

HPLC

Lot-Sample #....: A9B100247-002 Work Order #....: K61NM1AH Matrix.....: SO
 Date Sampled...: 02/10/09 11:10 Date Received...: 02/10/09
 Prep Date.....: 02/16/09 Analysis Date...: 02/20/09
 Prep Batch #....: 9047236
 Dilution Factor: 0.97
 % Moisture.....: 3.7 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.019
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.048
2,4,6-Trinitrotoluene	0.025 J	0.24	mg/kg	0.019
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.019
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.029
2-Amino-4,6- dinitrotoluene	ND	0.24	mg/kg	0.097
2-Nitrotoluene	ND	0.24	mg/kg	0.078
3-Nitrotoluene	ND	0.24	mg/kg	0.068
4-Amino-2,6- dinitrotoluene	0.037 J	0.24	mg/kg	0.019
4-Nitrotoluene	ND	0.24	mg/kg	0.078
HMX	0.17 J	0.24	mg/kg	0.029
Nitrobenzene	ND	0.24	mg/kg	0.048
Nitroglycerin	ND	0.48	mg/kg	0.13
PETN	ND	0.48	mg/kg	0.16
RDX	0.52	0.24	mg/kg	0.039
Tetryl	ND	0.24	mg/kg	0.048
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
3,4-Dinitrotoluene	96	(78 - 108)		

NOTE (S) :

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-133M-0954-SO

HPLC

Lot-Sample #....: A9B100247-002 Work Order #....: K61NM1AG Matrix.....: SO
Date Sampled....: 02/10/09 11:10 Date Received...: 02/10/09
Prep Date.....: 02/16/09 Analysis Date...: 02/19/09
Prep Batch #....: 9047244
Dilution Factor: 1
% Moisture.....: 3.7 Method.....: SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	0.021 J	0.25	mg/kg	0.020

NOTE(S):

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-133M-0954-SO

General Chemistry

Lot-Sample #....: A9B100247-002 Work Order #....: K61NM Matrix.....: SO
Date Sampled....: 02/10/09 11:10 Date Received...: 02/10/09
% Moisture.....: 3.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	0.93 B	5.0	mg/kg	MCAWW 353.2	02/19-02/20/09	9050187
			Dilution Factor: 1	MDL.....: 0.78		
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD	02/11-02/12/09	9042379
			Dilution Factor: 1	MDL.....: 10.0		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-133M-0954-SO

TOTAL Metals

Lot-Sample #....: A9B100247-002

Date Sampled....: 02/10/09 11:10 Date Received...: 02/10/09

% Moisture.....: 3.7

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 9042020						
Aluminum	7570	20.8	mg/kg	SW846 6010B	02/11/09	K61NM1AM
		Dilution Factor: 1		MDL.....: 10		
Arsenic	13.6	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1A8
		Dilution Factor: 1		MDL.....: 0.31		
Lead	28.0	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1AA
		Dilution Factor: 1		MDL.....: 0.20		
Antimony	ND	10.4	mg/kg	SW846 6010B	02/11/09	K61NM1AN
		Dilution Factor: 1		MDL.....: 0.40		
Barium	61.0 J	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1AP
		Dilution Factor: 1		MDL.....: 0.074		
Selenium	0.60 B	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1AC
		Dilution Factor: 1		MDL.....: 0.47		
Beryllium	0.47 B	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1AQ
		Dilution Factor: 1		MDL.....: 0.045		
Thallium	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1AD
		Dilution Factor: 1		MDL.....: 0.57		
Cadmium	1.5	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1AR
		Dilution Factor: 1		MDL.....: 0.037		
Calcium	7180 J	104	mg/kg	SW846 6010B	02/11/09	K61NM1AT
		Dilution Factor: 1		MDL.....: 16.6		
Chromium	18.5	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1AU
		Dilution Factor: 1		MDL.....: 0.21		
Cobalt	8.2	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1AV
		Dilution Factor: 1		MDL.....: 0.17		
Copper	93.3	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1AW
		Dilution Factor: 1		MDL.....: 0.77		
Iron	22100	20.8	mg/kg	SW846 6010B	02/11/09	K61NM1AX
		Dilution Factor: 1		MDL.....: 5.1		

(Continued on next page)

PIKA International, Inc.

Client Sample ID: DA2ss-133M-0954-SO

TOTAL Metals

Lot-Sample #....: A9B100247-002

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Magnesium	3270 J	104	mg/kg	SW846 6010B	02/11/09	K61NM1A0
		Dilution Factor: 1		MDL.....: 5.3		
Manganese	383 J	1.0	mg/kg	SW846 6010B	02/11/09	K61NM1A1
		Dilution Factor: 1		MDL.....: 0.077		
Nickel	25.5	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1A2
		Dilution Factor: 1		MDL.....: 0.28		
Potassium	914 J	519	mg/kg	SW846 6010B	02/11/09	K61NM1A3
		Dilution Factor: 1		MDL.....: 6.4		
Silver	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1A4
		Dilution Factor: 1		MDL.....: 0.10		
Sodium	ND	104	mg/kg	SW846 6010B	02/11-02/12/09	K61NM1A5
		Dilution Factor: 1		MDL.....: 68.5		
Vanadium	12.1	2.1	mg/kg	SW846 6010B	02/11/09	K61NM1A6
		Dilution Factor: 1		MDL.....: 0.12		
Zinc	164	4.2	mg/kg	SW846 6010B	02/11/09	K61NM1A7
		Dilution Factor: 1		MDL.....: 1.0		
Mercury	0.21	0.10	mg/kg	SW846 7471A	02/11-02/16/09	K61NM1AE
		Dilution Factor: 1		MDL.....: 0.016		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: DA2ss-134M-0955-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 2/10/09 Weather: Partly Cloudy Temperature: 54°

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe	X	Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1135 hrs Sample Type: Composite MI - Grab 30
If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location
Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives	X	Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants	X	Nitrate					
Water Level FT	TAL Metals	X	Sulfate		QA Samples			
Temperature °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA	
pH units	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description
10 yr 4/3, no odor, no staining, silty
clay, CL, 45% clay, 40% silt, 15% fine
to coarse sand - rock fragments - medium
to low plasticity, moist

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/20/09

PIKA International, Inc.

Client Sample ID: DA2ss-134M-0955-SO

HPLC

Lot-Sample #....: A9B100247-003 Work Order #....: K61NQ1AH Matrix.....: SO
 Date Sampled....: 02/10/09 11:35 Date Received...: 02/10/09
 Prep Date.....: 02/16/09 Analysis Date...: 02/20/09
 Prep Batch #....: 9047236
 Dilution Factor: 0.99
 % Moisture.....: 3.6 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.020
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.050
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.020
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.020
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.030
2-Amino-4,6- dinitrotoluene	ND	0.25	mg/kg	0.099
2-Nitrotoluene	ND	0.25	mg/kg	0.079
3-Nitrotoluene	ND	0.25	mg/kg	0.069
4-Amino-2,6- dinitrotoluene	0.029 J	0.25	mg/kg	0.020
4-Nitrotoluene	ND	0.25	mg/kg	0.079
HMX	0.041 J	0.25	mg/kg	0.030
Nitrobenzene	ND	0.25	mg/kg	0.050
Nitroglycerin	ND	0.50	mg/kg	0.13
PETN	ND	0.50	mg/kg	0.16
RDX	ND	0.25	mg/kg	0.040
Tetryl	ND	0.25	mg/kg	0.050
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
3,4-Dinitrotoluene	96	(78 - 108)		

NOTE(S) :

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-134M-0955-SO

HPLC

Lot-Sample #....: A9B100247-003 Work Order #....: K61NQ1AG Matrix.....: SO
Date Sampled....: 02/10/09 11:35 Date Received...: 02/10/09
Prep Date.....: 02/16/09 Analysis Date...: 02/19/09
Prep Batch #....: 9047244
Dilution Factor: 1
% Moisture.....: 3.6 Method.....: SW846 8330 (Modif

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Nitroguanidine	ND	0.25	mg/kg	0.020

PIKA International, Inc.

Client Sample ID: DA2ss-134M-0955-SO

General Chemistry

Lot-Sample #....: A9B100247-003 Work Order #....: K61NQ Matrix.....: SO
Date Sampled....: 02/10/09 11:35 Date Received...: 02/10/09
% Moisture.....: 3.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	1.2 B	5.0	mg/kg	MCAWW 353.2	02/19-02/20/09	9050187
			Dilution Factor: 1	MDL.....: 0.78		
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD	02/11-02/12/09	9042379
			Dilution Factor: 1	MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-134M-0955-SO

TOTAL Metals

Lot-Sample #....: A9B100247-003

Matrix.....: SO

Date Sampled....: 02/10/09 11:35 Date Received...: 02/10/09

% Moisture.....: 3.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 9042020						
Aluminum	8950	20.7	mg/kg	SW846 6010B	02/11/09	K61NQ1AM
		Dilution Factor: 1		MDL.....: 10		
Arsenic	14.0	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1A8
		Dilution Factor: 1		MDL.....: 0.31		
Lead	79.2	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1AA
		Dilution Factor: 1		MDL.....: 0.20		
Antimony	0.43 B	10.4	mg/kg	SW846 6010B	02/11/09	K61NQ1AN
		Dilution Factor: 1		MDL.....: 0.40		
Barium	77.1 J	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1AP
		Dilution Factor: 1		MDL.....: 0.074		
Selenium	ND	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1AC
		Dilution Factor: 1		MDL.....: 0.47		
Beryllium	0.54 B	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1AQ
		Dilution Factor: 1		MDL.....: 0.045		
Thallium	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1AD
		Dilution Factor: 1		MDL.....: 0.57		
Cadmium	1.3	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1AR
		Dilution Factor: 1		MDL.....: 0.037		
Calcium	9770 J	104	mg/kg	SW846 6010B	02/11/09	K61NQ1AT
		Dilution Factor: 1		MDL.....: 16.6		
Chromium	21.9	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1AU
		Dilution Factor: 1		MDL.....: 0.21		
Cobalt	8.7	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1AV
		Dilution Factor: 1		MDL.....: 0.17		
Copper	87.8	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1AW
		Dilution Factor: 1		MDL.....: 0.77		
Iron	21200	20.7	mg/kg	SW846 6010B	02/11/09	K61NQ1AX
		Dilution Factor: 1		MDL.....: 5.1		

(Continued on next page)

PIKA International, Inc.

Client Sample ID: DA2ss-134M-0955-SO

TOTAL Metals

Lot-Sample #...: A9B100247-003

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Magnesium	3720 J	104	mg/kg	SW846 6010B	02/11/09	K61NQ1A0
		Dilution Factor: 1		MDL.....: 5.3		
Manganese	430 J	1.0	mg/kg	SW846 6010B	02/11/09	K61NQ1A1
		Dilution Factor: 1		MDL.....: 0.077		
Nickel	23.4	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1A2
		Dilution Factor: 1		MDL.....: 0.28		
Potassium	1240 J	519	mg/kg	SW846 6010B	02/11/09	K61NQ1A3
		Dilution Factor: 1		MDL.....: 6.4		
Silver	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1A4
		Dilution Factor: 1		MDL.....: 0.10		
Sodium	ND	104	mg/kg	SW846 6010B	02/11-02/12/09	K61NQ1A5
		Dilution Factor: 1		MDL.....: 68.5		
Vanadium	14.0	2.1	mg/kg	SW846 6010B	02/11/09	K61NQ1A6
		Dilution Factor: 1		MDL.....: 0.12		
Zinc	169	4.1	mg/kg	SW846 6010B	02/11/09	K61NQ1A7
		Dilution Factor: 1		MDL.....: 1.0		
Mercury	0.26	0.10	mg/kg	SW846 7471A	02/11-02/16/09	K61NQ1AE
		Dilution Factor: 1		MDL.....: 0.016		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: DA2ss-135M-0956-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 02/10/09 Weather: Partly Cloudy Temperature: 54°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
	Micro-purge		Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1125 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30 Estimated - Measured Surveyed
Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings: Background: <u>0.0</u> ppm	VOC	TPH GRO	Corrosivity	
	SVOC (PAHs)	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	X Chromium +6	Ignitability	
Sample: <u>0.0</u> ppm	Propellants	X Nitrate		
Water Level	FT	TAL Metals	X Sulfate	
Temperature	°C	Pesticides/PCBs	Asbestos	
Sp. Conductance:	uMHOs	Cyanides	pH	
pH	units	TOC	RDX	
Turbidity	N.T.U.	Grain Size		

Sample Description

10 yr 3/3, no odor, no staining, silty clay
OL, 55% clay 35% silt, 10% fine to
medium sand, medium plasticity, moist

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/20/09

PIKA International, Inc.

Client Sample ID: DA2ss-135M-0956-SO

HPLC

Lot-Sample #....: A9B100247-004 Work Order #....: K61NT1AH Matrix.....: SO
 Date Sampled...: 02/10/09 11:25 Date Received...: 02/10/09
 Prep Date.....: 02/16/09 Analysis Date...: 02/20/09
 Prep Batch #....: 9047236
 Dilution Factor: 0.98
 % Moisture.....: 2.8 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,3,5-Trinitrobenzene	0.047 J	0.24	mg/kg	0.020
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.049
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.020
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.020
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.029
2-Amino-4,6- dinitrotoluene	ND	0.24	mg/kg	0.098
2-Nitrotoluene	ND	0.24	mg/kg	0.078
3-Nitrotoluene	ND	0.24	mg/kg	0.069
4-Amino-2,6- dinitrotoluene	0.044 J	0.24	mg/kg	0.020
4-Nitrotoluene	ND	0.24	mg/kg	0.078
HMX	ND	0.24	mg/kg	0.029
Nitrobenzene	ND	0.24	mg/kg	0.049
Nitroglycerin	ND	0.49	mg/kg	0.13
PETN	ND	0.49	mg/kg	0.16
RDX	ND	0.24	mg/kg	0.039
Tetryl	2.1	0.24	mg/kg	0.049
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
3,4-Dinitrotoluene	98	(78 - 108)		

NOTE(S) :

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-135M-0956-SO

HPLC

Lot-Sample #....: A9B100247-004 Work Order #....: K61NT1AG Matrix.....: SO
Date Sampled....: 02/10/09 11:25 Date Received...: 02/10/09
Prep Date.....: 02/16/09 Analysis Date...: 02/19/09
Prep Batch #....: 9047244
Dilution Factor: 1
% Moisture.....: 2.8 Method.....: SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	0.029 J	0.25	mg/kg	0.020

NOTE (S) :

J Estimated result. Result is less than RL.

PIKA International, Inc.

Client Sample ID: DA2ss-135M-0956-SO

General Chemistry

Lot-Sample #....: A9B100247-004 Work Order #....: K61NT Matrix.....: SO
 Date Sampled....: 02/10/09 11:25 Date Received...: 02/10/09
 % Moisture.....: 2.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.0	mg/kg	MCAWW 353.2	02/19-02/20/09	9050187
		Dilution Factor: 1		MDL.....: 0.78		
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD	02/11-02/12/09	9042379
		Dilution Factor: 1		MDL.....: 10.0		

PIKA International, Inc.

Client Sample ID: DA2ss-135M-0956-SO

TOTAL Metals

Lot-Sample #....: A9B100247-004

Matrix.....: SO

Date Sampled....: 02/10/09 11:25 Date Received...: 02/10/09

% Moisture.....: 2.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 9042020						
Aluminum	9030	20.6	mg/kg	SW846 6010B	02/11/09	K61NT1AM
		Dilution Factor: 1		MDL.....: 9.9		
Arsenic	15.5	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1A8
		Dilution Factor: 1		MDL.....: 0.31		
Lead	63.1	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1AA
		Dilution Factor: 1		MDL.....: 0.20		
Antimony	0.46 B	10.3	mg/kg	SW846 6010B	02/11/09	K61NT1AN
		Dilution Factor: 1		MDL.....: 0.40		
Barium	87.1 J	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1AP
		Dilution Factor: 1		MDL.....: 0.073		
Selenium	ND	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1AC
		Dilution Factor: 1		MDL.....: 0.46		
Beryllium	0.57 B	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1AQ
		Dilution Factor: 1		MDL.....: 0.044		
Thallium	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1AD
		Dilution Factor: 1		MDL.....: 0.57		
Cadmium	1.4	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1AR
		Dilution Factor: 1		MDL.....: 0.037		
Calcium	6240 J	103	mg/kg	SW846 6010B	02/11/09	K61NT1AT
		Dilution Factor: 1		MDL.....: 16.5		
Chromium	29.7	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1AU
		Dilution Factor: 1		MDL.....: 0.21		
Cobalt	9.8	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1AV
		Dilution Factor: 1		MDL.....: 0.16		
Copper	95.1	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1AW
		Dilution Factor: 1		MDL.....: 0.76		
Iron	23300	20.6	mg/kg	SW846 6010B	02/11/09	K61NT1AX
		Dilution Factor: 1		MDL.....: 5.0		

(Continued on next page)

PIKA International, Inc.

Client Sample ID: DA2ss-135M-0956-SO

TOTAL Metals

Lot-Sample #....: A9B100247-004

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Magnesium	3970 J	103	mg/kg	SW846 6010B	02/11/09	K61NT1A0
		Dilution Factor: 1		MDL.....: 5.2		
Manganese	419 J	1.0	mg/kg	SW846 6010B	02/11/09	K61NT1A1
		Dilution Factor: 1		MDL.....: 0.076		
Nickel	29.2	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1A2
		Dilution Factor: 1		MDL.....: 0.28		
Potassium	1110 J	514	mg/kg	SW846 6010B	02/11/09	K61NT1A3
		Dilution Factor: 1		MDL.....: 6.4		
Silver	ND	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1A4
		Dilution Factor: 1		MDL.....: 0.10		
Sodium	ND	103	mg/kg	SW846 6010B	02/11-02/12/09	K61NT1A5
		Dilution Factor: 1		MDL.....: 67.9		
Vanadium	14.2	2.1	mg/kg	SW846 6010B	02/11/09	K61NT1A6
		Dilution Factor: 1		MDL.....: 0.12		
Zinc	177	4.1	mg/kg	SW846 6010B	02/11/09	K61NT1A7
		Dilution Factor: 1		MDL.....: 1.0		
Mercury	0.21	0.10	mg/kg	SW846 7471A	02/11-02/16/09	K61NT1AE
		Dilution Factor: 1		MDL.....: 0.015		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.



Appendix K

Pad 67 Water Disposal Documentation

**SUMMARY TABLE
PAD 67 WATER**

ANALYTE **, UNITS, METHOD NO.		WBG-Pad 67-WATER-001	
Sample Date		12/22/2008	
EXPLOSIVES ug/L			
1,3,5-Trinitrobenzene	BQL	U	
1,3-Dinitrobenzene	BQL	U	
2,4,6-Trinitrotoluene	130	E	
2,4-Dinitrotoluene	BQL	U	
2,6-Dinitrotoluene	BQL	U	
2-Amino-4,6-Dinitrotoluene	10		
2-Nitrotoluene	BQL	U	
3-Nitrotoluene	BQL	U	
4-Amino-2,6-Dinitrotoluene	32		
4-Nitrotoluene	BQL	U	
HMX	55		
Nitrobenzene	BQL	U	
RDX	680	E	
Tetryl	BQL	U	
METALS 6010B ug/L			
Aluminum	694		
Antimony	8.7	J	
Arsenic	3.8	J	
Barium	616		
Beryllium	BQL	U	
Cadmium	0.13	J	
Calcium	26100		
Chromium	2.3	J	
Cobalt	BQL	U	
Copper	22.1		
Iron	946		
Lead	26.9		
Magnesium	4990.0		
Manganese	49.1		
Nickel	0.97	J	
Potassium	5640		
Selenium	BQL	U	
Silver	BQL	U	
Sodium	4150		
Thallium	BQL	U	
Vanadium	1.8	J	
Zinc	70.6		
7470A ug/L			
Mercury	0.023	J	
SVOC 8270 ug/L			
1,1-Biphenyl	BQL	U	
1,2-Diphenylhydrazine	BQL	U	
2,2-oxybis (1-chloropropane)	BQL	U	
2,4,5-Trichlorophenol	BQL	U	

**SUMMARY TABLE
PAD 67 WATER**

2,4,6-Trichlorophenol	BQL	U
2,4-Dichlorophenol	BQL	U
2,4-Dimethylphenol	BQL	U
2,4-Dinitrophenol	BQL	U
2,4-Dinitrotoluene	BQL	U
2,6-Dinitrotoluene	BQL	U
2-Chloronaphthalene	BQL	U
2-Chlorophenol	BQL	U
2-Methylnaphthalene	BQL	U
2-Nitroaniline	BQL	U
2-Nitrophenol	BQL	U
2-Methylphenol	BQL	U
3,3'-Dichlorobenzidine	BQL	U
3-Nitroaniline	BQL	U
4,6-Dinitro-2-methylphenol	BQL	U
4-Bromophenyl phenyl ether	BQL	U
4-Chloroaniline	BQL	U
4-Chlorophenyl phenyl ether	BQL	U
4-Nitroaniline	BQL	U
4-Nitrophenol	BQL	U
4-Chloro-3-methylphenol	BQL	U
4-Methylphenol	BQL	U
Acenaphthene	BQL	U
Acenaphthylene	BQL	U
Acetophenone	BQL	U
Anthracene	BQL	U
Atrazine	BQL	U
Benzaldehyde	BQL	U
Benzo(a)anthracene	BQL	U
Benzo(a)pyrene	BQL	U
Benzo(b)fluoranthene	BQL	U
Benzo(g,h,i)perylene	BQL	U
Benzo(k)fluoranthene	BQL	U
Benzyl Alcohol	BQL	U
Benzyl Butyl Phthalate	BQL	U
Caprolactam	BQL	U
Carbazole	BQL	U
Chrysene	BQL	U
Dibenz(a,h)anthracene	BQL	U
Dibenzofuran	BQL	U
Diethyl phthalate	BQL	U
Dimethyl phthalate	BQL	U
Fluoranthene	BQL	U
Fluorene	BQL	U
Hexachlorobenzene	BQL	U
Hexachlorobutadiene	BQL	U
Hexachlorocyclopentadiene	BQL	U
Hexachloroethane	BQL	U
Indeno(1,2,3-cd)pyrene	BQL	U
Isophorone	BQL	U

**SUMMARY TABLE
PAD 67 WATER**

Naphthalene	BQL	U
Nitrobenzene	BQL	U
Pentachlorophenol	BQL	U
Phenanthrene	BQL	U
Phenol	BQL	U
Pyrene	BQL	U
Bis(2-chloroethoxy)methane	BQL	U
Bis(2-chloroethyl) ether	BQL	U
Bis(2-ethylhexyl) phthalate	BQL	U
Di-n-butyl phthalate	BQL	U
Di-n-octyl phthalate	BQL	U
N-Nitroso-di-n-Propylamine	BQL	U
n-Nitrosodimethylamine	BQL	U
n-Nitrosodiphenylamine	BQL	U

Notes:

ug/L - micrograms per liter (parts per billion)

BQL - below Quantitation Limit

U - Indicates that the compound was analyzed for but not detected

Organics:

J - Value is less than the reporting limit but greater than the IDL/MDL

E- Indicates that the concentration detected exceeded the calibration range of the instrument

Inorganics:

J - Value is less than the reporting limit but greater than the IDL/MDL



No. 708511

Date / Time: 12 March 2009

12:18 pm

Time Out: 1:08 pm

Ticket: 715319

770883

Vehicle: SPARTAN

Contract: LOSY92810

Reference: 26

202720

BETTER MANAGEMENT CORPORATION-CARBON LIME

PORTAGE-OH

Operator: RS00060 BOB S

Gross Wt: 15,560.00 lb Tare Wt: 14,500.00 lb Net Wt: 1,360.00 lb

Rate	Quantity	Extension
------	----------	-----------

FEE-WEIGH-ONLY	30.00 YD	0.68 TN
----------------	----------	---------

SW-SLUDGE-FIT		1.00 LD
---------------	--	---------

Tax

Tendered:

Net Amount:

I hereby certify that this load does not contain any unauthorized waste.

SAFETY MEMOS:

- Hard hats **MUST** be worn.
- Passengers **MUST** remain in vehicles at all time.
- ANSI Class II vests **MUST** be worn.

SIGNATURE: _____

BETTER MANAGEMENT CORPORATION OF OHIO, INC.41738 Esterly Drive • P.O. Box 130
Columbiana, Ohio 44408

No. 202720

PHONE 800-445-7887 FAX 330-482-9242

NON-HAZARDOUS SOLID WASTE MANIFEST**GENERATOR**

Generator Ravenna Army Ammunition Plant Phone (330) 358-2017
Address 8451 State Rt. 5 Gross Weight _____
Ravenna, Ohio 44266 Empty Weight _____
Quantity 1 - Box Van Truck Load Weight _____
Description Run off water

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable federal or state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable federal or state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. Payments of all amounts due shall be made within 30 days of date of invoice. Amounts in default will be subject to a SERVICE CHARGE of 1½% per month (18% per annum) on the overdue unpaid balance. Failure to make payment within terms will result in cancellation of credit. "I have read this paragraph and accept the terms and conditions listed above."

Mark Patterson
Generator Authorized Agent (print)Mark Patterson (Signature)
Signature3-12-09
Shipment Date**TRANSPORTER**

Transporter Spartan Environmental Phone Number (724) 752-1896
Address 4316 Ellwood Road Truck Number _____
New Castle, PA 16101 Vehicle License # / State 146-2622
Driver Name (print) T. J. D. Co. Inc.

I hereby certify that the above named material was picked up at the generator site listed above.

[Signature]
Driver Signature3-12-09
Shipment Date

I hereby certify that the above named material was delivered without incident to the destination site listed below.

[Signature]
Driver Signature3-12-09
Delivery Date**DESTINATION**

Site Name Allied Waste Services 330-536-8013 Directions - 800-445-7887
Address 8100 State Line Rd., Lowellville, OH 44436
Disposal Approval Number L08Y92810 Receipt Date 3-12-09

I hereby certify that the above named material has been accepted.

[Signature]
Landfill Authorized Agent[Signature]
Signature

Field Sampling Report



Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-Pad 67 water-001-SW

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 12/22/08 Weather: Cold & cloudy Temperature: 10

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer	X	Sample Bottle	✓	Scoop		Trowel	
	Pump		Bacon Bomb		Bowl		Hand Auger	
	Micro-purge				Push Probe		Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1070 hrs

Sample Type: Composite - MI Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-6' FT (below surface)

Decon: Dedicated - Each Day - Each Location NO

Field Parameters (at time of sample)		Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity				
	SVOC (PAHs)	X	TPH DRO		Reactivity Sulfide/Cyanide				
	Explosives	X	Chromium +6		Ignitability				
Sample: ppm	Propellants		Nitrate						
Water Level: FT	TAL Metals	X	Sulfate		QA Samples				
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA		
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID		NA		
pH: units	TOC		RDX		Equipment Rinse ID		NA		
Turbidity: N.T.U.	Grain Size				Trip Blank ID		NA		

Sample Description

Cloudy, no sheen
no odor, low turbidity

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
Name: _____
Agency/Company: _____
Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 12/22/08

Analytical Summary Report

Client Name:	Pika International, Inc.	Sample Matrix:	WATER
Client Sample ID:	WBG-PAD67 WATER-001	Lab Sample ID:	812198-001-001-1/2
Sample Date/Time:	12/22/2008 10:30	Percent Moisture:	NA
Receipt Date/Time:	12/24/2008 14:52	Preparation Method:	EXT_SW8330
Prepared Date/Time:	12/26/2008 00:00	Analytical Method:	SW8330

#	Parameter	CAS	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	1,3,5-Trinitrobenzene	99-35-4	BQL	U	0.26	1	ug/L	01/15/09	11:34
2)	1,3-Dinitrobenzene	99-65-0	BQL	U	0.26	1	ug/L	01/15/09	11:34
3)	2,4,6-Trinitrotoluene	118-96-7	130	E	0.26	1	ug/L	01/15/09	11:34
4)	2,4-Dinitrotoluene	121-14-2	BQL	U	0.26	1	ug/L	01/15/09	11:34
5)	2,6-Dinitrotoluene	606-20-2	BQL	U	0.26	1	ug/L	01/15/09	11:34
6)	2-Amino-4,6-Dinitrotoluene	35572-78-2	10		0.26	1	ug/L	01/15/09	11:34
7)	4-Amino-2,6-Dinitrotoluene	19406-51-0	32		0.26	1	ug/L	01/15/09	11:34
8)	HMX	2691-41-0	55		0.52	1	ug/L	01/15/09	11:34
9)	Nitrobenzene	98-95-3	BQL	U	0.26	1	ug/L	01/15/09	11:34
10)	RDX	121-82-4	680	E	0.52	1	ug/L	01/15/09	11:34
11)	Tetryl	479-45-8	BQL	U	0.52	1	ug/L	01/15/09	11:34
12)	m-Nitrotoluene	99-08-1	BQL	U	0.52	1	ug/L	01/15/09	11:34
13)	o-Nitrotoluene	88-72-2	BQL	U	0.52	1	ug/L	01/15/09	11:34
14)	p-Nitrotoluene	99-99-0	BQL	U	0.52	1	ug/L	01/15/09	11:34

#	Surrogate Parameter	CAS	Percent Recovery	Control Limits	Dil Fact	Analysis Date/Time	
15)	4-Nitroaniline	100-01-6	76 %	37 - 149	1	01/15/09	11:34

Analytical Summary Report

Client Name:	Pika International, Inc.	Sample Matrix:	WATER
Client Sample ID:	WBG-PAD67 WATER-001	Lab Sample ID:	812198-001-003-1/2
Sample Date/Time:	12/22/2008 10:30	Percent Moisture:	NA
Receipt Date/Time:	12/24/2008 14:52	Preparation Method:	SW3520C
Prepared Date/Time:	12/26/2008 09:26	Analytical Method:	SWGPL_TCL

#	Parameter	CAS	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	1,1- Biphenyl	92-52-4	BQL	U	10	1	ug/L	12/31/08 14:04
2)	1,2-Diphenylhydrazine	122-66-7	BQL	U	10	1	ug/L	12/31/08 14:04
3)	2,2-Oxybis(1-chloropropane)	108-60-1	BQL	U	10	1	ug/L	12/31/08 14:04
4)	2,4,5-Trichlorophenol	95-95-4	BQL	U	10	1	ug/L	12/31/08 14:04
5)	2,4,6-Trichlorophenol	88-06-2	BQL	U	10	1	ug/L	12/31/08 14:04
6)	2,4-Dichlorophenol	120-83-2	BQL	U	10	1	ug/L	12/31/08 14:04
7)	2,4-Dimethylphenol	105-67-9	BQL	U	10	1	ug/L	12/31/08 14:04
8)	2,4-Dinitrophenol	51-28-5	BQL	U	20	1	ug/L	12/31/08 14:04
9)	2,4-Dinitrotoluene	121-14-2	BQL	U	10	1	ug/L	12/31/08 14:04
10)	2,6-Dinitrotoluene	606-20-2	BQL	U	10	1	ug/L	12/31/08 14:04
11)	2-Chloronaphthalene	91-58-7	BQL	U	10	1	ug/L	12/31/08 14:04
12)	2-Chlorophenol	95-57-8	BQL	U	10	1	ug/L	12/31/08 14:04
13)	2-Methylnaphthalene	91-57-6	BQL	U	10	1	ug/L	12/31/08 14:04
14)	2-Nitroaniline	88-74-4	BQL	U	10	1	ug/L	12/31/08 14:04
15)	2-Nitrophenol	88-75-5	BQL	U	10	1	ug/L	12/31/08 14:04
16)	2-methylphenol	95-48-7	BQL	U	10	1	ug/L	12/31/08 14:04
17)	3,3-Dichlorobenzidine	91-94-1	BQL	U	20	1	ug/L	12/31/08 14:04
18)	3-Nitroaniline	99-09-2	BQL	U	10	1	ug/L	12/31/08 14:04
19)	4,6-dinitro-2-methyl phenol	534-52-1	BQL	U	20	1	ug/L	12/31/08 14:04
20)	4-Bromophenyl-phenylether	101-55-3	BQL	U	10	1	ug/L	12/31/08 14:04
21)	4-Chloroaniline	106-47-8	BQL	U	10	1	ug/L	12/31/08 14:04
22)	4-Chlorophenyl Phenyl Ether	7005-72-3	BQL	U	10	1	ug/L	12/31/08 14:04
23)	4-Nitroaniline	100-01-6	BQL	U	10	1	ug/L	12/31/08 14:04
24)	4-Nitrophenol	100-02-7	BQL	U	20	1	ug/L	12/31/08 14:04
25)	4-chloro-3-methylphenol	59-50-7	BQL	U	10	1	ug/L	12/31/08 14:04
26)	4-methylphenol	106-44-5	BQL	U	20	1	ug/L	12/31/08 14:04
27)	Acenaphthene	83-32-9	BQL	U	10	1	ug/L	12/31/08 14:04
28)	Acenaphthylene	208-96-8	BQL	U	10	1	ug/L	12/31/08 14:04

Analytical Summary Report

Client Name:	Pika International, Inc.	Sample Matrix:	WATER
Client Sample ID:	WBG-PAD67 WATER-001	Lab Sample ID:	812198-001-003-1/2
Sample Date/Time:	12/22/2008 10:30	Percent Moisture:	NA
Receipt Date/Time:	12/24/2008 14:52	Preparation Method:	SW3520C
Prepared Date/Time:	12/26/2008 09:26	Analytical Method:	SWGPL_TCL

29) Acetophenone	98-86-2	BQL U	10	1	ug/L	12/31/08	14:04
30) Anthracene	120-12-7	BQL U	10	1	ug/L	12/31/08	14:04
31) Atrazine	1912-24-9	BQL U	20	1	ug/L	12/31/08	14:04
32) Benzaldehyde	100-52-7	BQL U	10	1	ug/L	12/31/08	14:04
33) Benzo(a)anthracene	56-55-3	BQL U	10	1	ug/L	12/31/08	14:04
34) Benzo(a)pyrene	50-32-8	BQL U	10	1	ug/L	12/31/08	14:04
35) Benzo(b)fluoranthene	205-99-2	BQL U	10	1	ug/L	12/31/08	14:04
36) Benzo(g,h,i)perylene	191-24-2	BQL U	10	1	ug/L	12/31/08	14:04
37) Benzo(k)fluoranthene	207-08-9	BQL U	10	1	ug/L	12/31/08	14:04
38) Benzyl Alcohol	100-51-6	BQL U	10	1	ug/L	12/31/08	14:04
39) Benzyl Butyl Phthalate	85-68-7	BQL U	10	1	ug/L	12/31/08	14:04
40) Caprolactam	105-60-2	BQL U	10	1	ug/L	12/31/08	14:04
41) Carbazole	86-74-8	BQL U	10	1	ug/L	12/31/08	14:04
42) Chrysene	218-01-9	BQL U	10	1	ug/L	12/31/08	14:04
43) Dibenz(a,h)Anthracene	53-70-3	BQL U	10	1	ug/L	12/31/08	14:04
44) Dibenzofuran	132-64-9	BQL U	10	1	ug/L	12/31/08	14:04
45) Diethyl Phthalate	84-66-2	BQL U	10	1	ug/L	12/31/08	14:04
46) Dimethyl Phthalate	131-11-3	BQL U	10	1	ug/L	12/31/08	14:04
47) Fluoranthene	206-44-0	BQL U	10	1	ug/L	12/31/08	14:04
48) Fluorene	86-73-7	BQL U	10	1	ug/L	12/31/08	14:04
49) Hexachlorobenzene	118-74-1	BQL U	10	1	ug/L	12/31/08	14:04
50) Hexachlorobutadiene	87-68-3	BQL U	10	1	ug/L	12/31/08	14:04
51) Hexachlorocyclopentadiene	77-47-4	BQL U	10	1	ug/L	12/31/08	14:04
52) Hexachloroethane	67-72-1	BQL U	10	1	ug/L	12/31/08	14:04
53) Indeno(1,2,3-c,d)Pyrene	193-39-5	BQL U	10	1	ug/L	12/31/08	14:04
54) Isophorone	78-59-1	BQL U	10	1	ug/L	12/31/08	14:04
55) Naphthalene	91-20-3	BQL U	10	1	ug/L	12/31/08	14:04
56) Nitrobenzene	98-95-3	BQL U	10	1	ug/L	12/31/08	14:04
57) Pentachlorophenol	87-86-5	BQL U	20	1	ug/L	12/31/08	14:04
58) Phenanthrene	85-01-8	BQL U	10	1	ug/L	12/31/08	14:04

Analytical Summary Report

Client Name:	Pika International, Inc.	Sample Matrix:	WATER
Client Sample ID:	WBG-PAD67 WATER-001	Lab Sample ID:	812198-001-003-1/2
Sample Date/Time:	12/22/2008 10:30	Percent Moisture:	NA
Receipt Date/Time:	12/24/2008 14:52	Preparation Method:	SW3520C
Prepared Date/Time:	12/26/2008 09:26	Analytical Method:	SWGPL_TCL

59) Phenol	108-95-2	BQL U	10	1	ug/L	12/31/08	14:04
60) Pyrene	129-00-0	BQL U	10	1	ug/L	12/31/08	14:04
61) bis(2-chloroethoxy) methane	111-91-1	BQL U	10	1	ug/L	12/31/08	14:04
62) bis(2-chloroethyl) ether	111-44-4	BQL U	10	1	ug/L	12/31/08	14:04
63) bis(2-ethylhexyl) phthalate	117-81-7	BQL U	10	1	ug/L	12/31/08	14:04
64) di-n-Butyl Phthalate	84-74-2	BQL U	20	1	ug/L	12/31/08	14:04
65) di-n-Octyl Phthalate	117-84-0	BQL U	10	1	ug/L	12/31/08	14:04
66) n-Nitrosodi-n-Propylamine	621-64-7	BQL U	10	1	ug/L	12/31/08	14:04
67) n-Nitrosodimethylamine	62-75-9	BQL U	10	1	ug/L	12/31/08	14:04
68) n-Nitrosodiphenylamine	86-30-6	BQL U	10	1	ug/L	12/31/08	14:04

# Surrogate Parameter	CAS	Percent Recovery	Control Limits	Dil Fact	Analysis Date/Time
69) 2,4,6-Tribromophenol	118-79-6	75 %	40 - 125	1	12/31/08 14:04
70) 2-Fluorobiphenyl	321-60-8	82 %	50 - 110	1	12/31/08 14:04
71) 2-Fluorophenol	367-12-4	39 %	20 - 110	1	12/31/08 14:04
72) Nitrobenzene-d5	4165-60-0	101 %	40 - 110	1	12/31/08 14:04
73) Phenol-d5	4165-62-2	30 %	10 - 115	1	12/31/08 14:04
74) p-Terphenyl-d14	1718-51-0	79 %	50 - 135	1	12/31/08 14:04

Analytical Summary Report

Client Name:	Pika International, Inc.	Sample Matrix:	WATER
Client Sample ID:	WBG-PAD67 WATER-001	Lab Sample ID:	812198-001-005-1/1
Sample Date/Time:	12/22/2008 10:30	Percent Moisture:	NA
Receipt Date/Time:	12/24/2008 14:52	Preparation Method:	SW3010A
Prepared Date/Time:	12/29/2008 10:00	Analytical Method:	SW6010B

#	Parameter	CAS	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Aluminum	7429-90-5	694		200	1	ug/L	01/06/09 01:30
2)	Antimony	7440-36-0	8.7	J	20	1	ug/L	01/06/09 01:30
3)	Arsenic	7440-38-2	3.8	J	20	1	ug/L	01/06/09 01:30
4)	Barium	7440-39-3	616		5	1	ug/L	01/06/09 01:30
5)	Beryllium	7440-41-7	BQL	U	2	1	ug/L	01/06/09 01:30
6)	Cadmium	7440-43-9	0.13	J	6	1	ug/L	01/06/09 01:30
7)	Calcium	7440-70-2	26100		1000	1	ug/L	01/06/09 01:30
8)	Chromium	7440-47-3	2.3	J	5	1	ug/L	01/06/09 01:30
9)	Cobalt	7440-48-4	BQL	U	5	1	ug/L	01/06/09 01:30
10)	Copper	7440-50-8	22.1		10	1	ug/L	01/06/09 01:30
11)	Iron	7439-89-6	946		150	1	ug/L	01/06/09 01:30
12)	Lead	7439-92-1	26.9		10	1	ug/L	01/06/09 01:30
13)	Magnesium	7439-95-4	4990		250	1	ug/L	01/06/09 01:30
14)	Manganese	7439-96-5	49.1		5	1	ug/L	01/06/09 01:30
15)	Nickel	7440-02-0	0.97	J	10	1	ug/L	01/06/09 01:30
16)	Potassium	7440-09-7	5640		250	1	ug/L	01/06/09 01:30
17)	Selenium	7782-49-2	BQL	U	20	1	ug/L	01/06/09 01:30
18)	Silver	7440-22-4	BQL	U	5	1	ug/L	01/06/09 01:30
19)	Sodium	7440-23-5	4150		2500	1	ug/L	01/06/09 01:30
20)	Thallium	7440-28-0	BQL	U	30	1	ug/L	01/06/09 01:30
21)	Vanadium	7440-62-2	1.8	J	10	1	ug/L	01/06/09 01:30
22)	Zinc	7440-66-6	70.6		20	1	ug/L	01/06/09 01:30

Analytical Summary Report

Client Name:	Pika International, Inc.	Sample Matrix:	WATER
Client Sample ID:	WBG-PAD67 WATER-001	Lab Sample ID:	812198-001-005-1/1
Sample Date/Time:	12/22/2008 10:30	Percent Moisture:	NA
Receipt Date/Time:	12/24/2008 14:52	Preparation Method:	SW7470A_DIG
Prepared Date/Time:	12/26/2008 10:00	Analytical Method:	SW7470A

#	Parameter	CAS	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Mercury	7439-97-6	0.023	J	0.2	1	ug/L	12/29/08 11:58



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix L

Fill Material Sampling Forms and Analytical Results

**SUMMARY TABLE
FILL DIRT SAMPLES**

ANALYTE**, UNITS, METHOD NO.	WBG Clean-up Goals mg/kg	Region 9 PRG mg/kg	Surface Soil Background Criteria mg/kg	MEC-FILL-001	MEC-FILL-002	WBG-FILL-001	WBG-FILL-002
Sample Date				6/21/2007	6/21/2007	12/16/2008	12/16/2008
EXPLOSIVES mg/kg							
1,3,5-Trinitrobenzene	--	183	--	ND	ND	-	-
1,3-Dinitrobenzene	--	0.61	--	ND	ND	-	-
2,4,6-Trinitrotoluene	--	16	--	ND	ND	-	-
2,4-Dinitrotoluene	--	12	--	ND	ND	-	-
2,6-Dinitrotoluene	--	6.1	--	ND	ND	-	-
2-Amino-4,6-Dinitrotoluene	--	--	--	ND	ND	-	-
2-Nitrotoluene	--	0.88	--	ND	ND	-	-
3-Nitrotoluene	--	73	--	ND	ND	-	-
4-Amino-2,6-Dinitrotoluene	--	--	--	ND	ND	-	-
4-Nitrotoluene	--	12	--	ND	ND	-	-
HMX	--	306	--	ND	ND	-	-
Nitrobenzene	--	2	--	ND	ND	-	-
PETN	--	--	--	ND	ND	-	-
RDX	617	4.4	--	ND	ND	-	-
Tetryl	--	61	--	ND	ND	-	-
Propellants mg/kg							
Nitrocellulose	--	--	--	2.3 B	0.91 B	-	-
Nitroglycerine	--	35	--	ND	ND	-	-
Nitroguanidine	--	611	--	0.039 J,B	0.049 J,B	-	-
METALS 6010B mg/kg							
Arsenic	--	0.39	15.40	18.8	4.9	10.8	10.2
Lead	--	400	26.1	10	6.4	-	-
Selenium	--	39	1.4	ND	ND	-	-
Thallium	--	0.52	0.00	ND	ND	-	-
Silver	--	39	0.00	ND	ND	-	-
Aluminum	--	7614	17700	6570	2520	-	-
Barium	--	538	88.40	28.8	13.3	-	-
Beryllium	--	15	0.88	0.43 B	0.30 B	-	-
Calcium	--	--(n)	15800.00	4250	8540	-	-
Cadmium	--	3.7	0.00	ND	ND	-	-
Cobalt	--	30	10.40	8.4	4.5	-	-
Chromium	--	30	17.40	10.5	19.9	16.1	25.1
Copper	--	313	17.70	17.4	9.7	-	-
Iron	--	2346	23100.00	21300	15100	-	-
Potassium	--	--(n)	927.00	1040 J	449 B,J	-	-
Magnesium	--	--(n)	3030.00	3630 J	2550 J,B	-	-
Manganese	--	176	1450.00	316	244	-	-
Sodium	--	--(n)	123.00	ND	ND	-	-
Nickel	--	156	21.10	20.3	17.0	-	-
Antimony	--	3.1	0.96	0.56 B	ND	-	-
Vanadium	--	7.8	31.10	11.3	6.6	-	-
Zinc	--	2346	61.80	50.1	36.9	-	-
7471A mg/kg							
Mercury	--	--	0.04	ND	ND		
Cyanide 9012 mg/kg							
Cyanide	--	--	0.00	ND	ND		
VOCS 8260B ug/kg							
Chloromethane	--	4.7	--	ND	ND	-	-
Bromomethane	--	0.39	--	ND	ND	-	-
Vinyl chloride	--	0.079	--	ND	ND	-	-
Chloroethane	--	3	--	ND	ND	-	-
Methylene Chloride	--	9.1	--	2.7 J,B	5.8 B	-	-

**SUMMARY TABLE
FILL DIRT SAMPLES**

ANALYTE**, UNITS, METHOD NO.	WBG Clean-up Goals mg/kg	Region 9 PRG mg/kg	Surface Soil Background Criteria mg/kg	MEC-FILL-001	MEC-FILL-002	WBG-FILL-001	WBG-FILL-002
Acetone	--	1412	--	ND	ND	-	-
Carbon disulfide	--	36	--	ND	ND	-	-
1,1-Dichloroethene	--	12	--	ND	ND	-	-
1,1-Dichloroethane	--	51	--	ND	ND	-	-
1,2-Dichloroethene (total)	--	6.9	--	ND	ND	-	-
Chloroform	--	0.22	--	ND	ND	-	-
1,2-Dichloroethane	--	0.28	--	ND	ND	-	-
2-Butanone	--	2231	--	ND	ND	-	-
1,1,1-Trichloroethane	--	1200	--	ND	ND	-	-
Carbon tetrachloride	--	0.25	--	ND	ND	-	-
Bromodichloromethane	--	0.82	--	ND	ND	-	-
1,2-Dichloropropane	--	0.34	--	ND	ND	-	-
cis-1,3-Dichloropropene	--	0.78	--	ND	ND	-	-
Trichloroethene	--	0.48	--	ND	0.47 J	-	-
Dibromochloromethane	--	1.1	--	ND	ND	-	-
1,1,2-Trichloroethane	--	0.73	--	ND	ND	-	-
Benzene	--	0.64	--	ND	ND	-	-
trans-1,3-Dichloropropene	--	0.78	--	ND	ND	-	-
Bromoform	--	62	--	ND	ND	-	-
4-Methyl-2-pentanone	--	528	--	ND	ND	-	-
2-Hexanone	--	530	--	ND	ND	-	-
Tetrachloroethene	--	0.48	--	ND	ND	-	-
1,1,2,2-Tetrachloroethane	--	0.41	--	ND	ND	-	-
Toluene	--	520	--	ND	ND	-	-
Chlorobenzene	--	15	--	ND	ND	-	-
Ethylbenzene	--	395	--	ND	ND	-	-
Styrene	--	1700	--	ND	ND	-	-
Xylenes (Total)	--	27	--	ND	ND	-	-
SVOC 8270 ug/kg							
Phenol	--	1833	--	ND	ND	-	-
Bis(2-chloroethyl) ether	--	0.22	--	ND	ND	-	-
2-Chlorophenol	--	6.3	--	ND	ND	-	-
1,3-Dichlorobenzene	--	53	--	ND	ND	-	-
1,4-Dichlorobenzene	--	3.4	--	ND	ND	-	-
1,2-Dichlorobenzene	--	600	--	ND	ND	-	-
2-Methylphenol	--	306	--	ND	ND	-	-
2,2-oxybis (1-chloropropane)	--	2.9	--	ND	ND	-	-
4-Methylphenol	--	31	--	ND	ND	-	-
N-Nitroso-di-n-propylamine	--	0.069	--	ND	ND	-	-
Hexachloroethane	--	35	--	ND	ND	-	-
Nitrobenzene	--	2	--	ND	ND	-	-
Isophorone	--	512	--	ND	ND	-	-
2-Nitrophenol	--	--	--	ND	ND	-	-
2,4-Dimethylphenol	--	122	--	ND	ND	-	-
Bis(2-chloroethoxy)methane	--	--	--	ND	ND	-	-
2,4-Dichlorophenol	--	18	--	ND	ND	-	-
1,2,4-Trichlorobenzene	--	6.2	--	ND	ND	-	-
Naphthalene	--	5.6	--	ND	ND	-	-
4-Chloroaniline	--	24	--	ND	ND	-	-
Hexachlorobutadiene	--	6.2	--	ND	ND	-	-
4-Chloro-3-methylphenol	--	--	--	ND	ND	-	-
2-Methylnaphthalene	--	--	--	ND	24	-	-
Hexachlorocyclopentadiene	--	37	--	ND	ND	-	-
2,4,6-Trichlorophenol	--	0.61	--	ND	ND	-	-
2,4,5-Trichlorophenol	--	611	--	ND	ND	-	-
2-Chloronaphthalene	--	494	--	ND	ND	-	-

**SUMMARY TABLE
FILL DIRT SAMPLES**

ANALYTE**, UNITS, METHOD NO.	WBG Clean-up Goals mg/kg	Region 9 PRG mg/kg	Surface Soil Background Criteria mg/kg	MEC-FILL-001	MEC-FILL-002	WBG-FILL-001	WBG-FILL-002
2-Nitroaniline	--	18.3	--	ND	ND	-	-
Dimethyl phthalate	--	100000	--	ND	ND	-	-
Acenaphthylene	--	--	--	ND	ND	-	-
2,6-Dinitrotoluene	--	6.1	--	ND	ND	-	-
3-Nitroaniline	--	1.8	--	ND	ND	-	-
Acenaphthene	--	368	--	ND	18	-	-
2,4-Dinitrophenol	--	12	--	ND	ND	-	-
2-Nitrophenol	--	--	--	ND	ND	-	-
Dibenzofuran	--	15	--	ND	ND	-	-
2,4-Dinitrotoluene	--	12	--	ND	ND	-	-
Diethyl phthalate	--	4888	--	ND	ND	-	-
4-Chlorophenyl phenyl ether	--	--	--	ND	ND	-	-
Fluorene	--	275	--	ND	ND	-	-
4-Nitroaniline	--	23	--	ND	ND	-	-
4,6-Dinitro-2-methylphenol	--	0.61	--	ND	ND	-	-
n-Nitrosodiphenylamine	--	99	--	ND	ND	-	-
4-Bromophenyl phenyl ether	--	--	--	ND	ND	-	-
Hexachlorobenzene	--	0.3	--	ND	ND	-	-
Pentachlorophenol	--	3	--	ND	ND	-	-
Phenanthrene	--	--	--	ND	52	-	-
Anthracene	--	2189	--	ND	ND	-	-
Carbazole	--	24	--	ND	ND	-	-
Di-n-butyl phthalate	--	611	--	ND	ND	-	-
Fluoranthene	--	229	--	ND	25	-	-
Pyrene	--	232	--	ND	17	-	-
Butyl benzyl phthalate	--	1222	--	ND	ND	-	-
3,3'-Dichlorobenzidine	--	1.1	--	ND	ND	-	-
Benzo(a)anthracene	75	0.62	--	ND	ND	-	-
Chrysene	--	62	--	ND	ND	-	-
Bis(2-ethylhexyl) phthalate	--	35	--	32 J	26 J	-	-
Di-n-octyl phthalate	--	244	--	ND	ND	-	-
Benzo(b)fluoranthene	75	0.62	--	ND	ND	-	-
Benzo(k)fluoranthene	--	6.2	--	ND	ND	-	-
Benzo(a)pyrene	7.5	0.062	--	ND	ND	-	-
Indeno(1,2,3-cd)pyrene	75	0.62	--	ND	ND	-	-
Dibenz(a,h)anthracene	7.5	0.062	--	ND	ND	-	-
Benzo(g,h,i)perylene	--	--	--	ND	19	-	-
PESTICIDES 8081A ug/kg							
alpha-BHC	--	0.09	--	ND	ND	-	-
beta-BHC	--	0.32	--	ND	ND	-	-
delta-BHC	--	--	--	ND	ND	-	-
gamma-BHC	--	0.44	--	ND	ND	-	-
Heptachlor	--	0.11	--	ND	ND	-	-
Aldrin	--	0.029	--	ND	ND	-	-
Heptachlor epoxide	--	0.053	--	ND	ND	-	-
Endosulfan I	--	37	--	ND	ND	-	-
Dieldrin	--	0.030	--	ND	ND	-	-
4,4'-DDE	--	1.7	--	ND	ND	-	-
Endrin	--	1.8	--	ND	ND	-	-
Endosulfan II	--	37	--	ND	ND	-	-
4,4'-DDD	--	2.4	--	ND	ND	-	-
Endosulfan sulfate	--	37	--	ND	ND	-	-
4,4'-DDT	--	1.7	--	ND	ND	-	-
Methoxychlor	--	31	--	ND	ND	-	-
Endrin ketone	--	--	--	ND	ND	-	-
Endrin aldehyde	--	--	--	ND	ND	-	-
alpha-Chlordane	--	1.6	--	ND	ND	-	-

**SUMMARY TABLE
FILL DIRT SAMPLES**

ANALYTE** , UNITS, METHOD NO.	WBG Clean-up Goals mg/kg	Region 9 PRG mg/kg	Surface Soil Background Criteria mg/kg	MEC-FILL-001	MEC-FILL-002	WBG-FILL-001	WBG-FILL-002
gamma-Chlordane	--	1.6	--	ND	ND	-	-
Toxaphene	--	0.44	--	ND	ND	-	-
PCBs 8082 ug/kg							
Aroclor-1016	--	0.39	--	ND	ND	-	-
Aroclor-1221	--	0.22	--	ND	ND	-	-
Aroclor-1232	--	0.22	--	ND	ND	-	-
Aroclor-1242	--	0.22	--	ND	ND	-	-
Aroclor-1248	--	0.22	--	ND	ND	-	-
Aroclor-1254	--	0.22	--	ND	ND	-	-
Aroclor-1260	--	0.22	--	ND	ND	-	-

ug/L = micrograms per liter (parts per billion)

ug/kg = micrograms per kilogram (parts per billion)

mg/kg = milligrams per liogram (parts per million)

Organics:

ND = Indicates that the compound was analyzed for but not detected

J = Estimated result. Result is less than Reporting Limit

B = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Inorganics:

ND = Indicates that the compound was analyzed for but not detected

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B = Estimated result. Result is less than Reporting Limit

E = Matrix Interference

**SEVERN
TRENT** **STL**
Severn Trent Laboratories, Inc.

STL-4124 (0901)



Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Shahram Taherimin	Date	6/21/07	Time	1645
2. Relinquished By	Rice T. B. S. D.	Date	6-21-07	Time	1714
3. Relinquished By		Date		Time	

1. Received By	TRIC 8081500	Date	6-21-07	Time	1648
2. Received By		Date	6-21-07	Time	1714
3. Received By		Date		Time	

Comments

* PICKUP TIME WAS 1615*

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. MEC DISPOSAL


MEC DISPOSAL

Lot #: A7F220161

Brian Stockwell

PIKA International, Inc.
8451 St. Rt.5
Ravenna, OH 44266

TESTAMERICA LABORATORIES, INC. (FKA STL)



Patrick J. O'Meara
Project Manager

July 13, 2007

CASE NARRATIVE

A7F220161

The following report contains the analytical results for four solid samples and one quality control sample submitted to TestAmerica (formerly STL North Canton) by PIKA International, Inc. from the MEC Disposal Site, project number MEC DISPOSAL. The samples were received June 21, 2007, according to documented sample acceptance procedures.

The Explosives+Nitroglycerin and Nitroguanidine analyses were performed at TestAmerica Sacramento.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters, which are never reported on a dry weight basis, is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Patrick J. O'Meara, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 37.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.1°C, with wet ice as the coolant.

See TestAmerica's Cooler Receipt Form for additional information.

The samples were received at TestAmerica West Sacramento in good condition at 0 degree C, but did not appear to be frozen.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 7177351 and 7183232. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

The internal standard areas were outside acceptance limits for sample(s) MEC-FILL-002 (VOC) due to matrix effects. "(Refer to IS report following this Case Narrative for additional detail.)"

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

PESTICIDES-8081

The matrix spike/matrix spike duplicate(s) for MEC-FILL-001 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Sample(s) MEC-FILL-002 had elevated reporting limits due to matrix interference (color of extract).

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for MEC-FILL-001 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes, which will be flagged with "NC, MSB".

The matrix spike/matrix spike duplicate(s) for MEC-FILL-001 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

CASE NARRATIVE (continued)

GENERAL CHEMISTRY (continued)

The matrix spike/matrix spike duplicate(s) for MEC-FILL-001 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 7178623 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

TESTAMERICA WEST SACRAMENTO HPLC-8330

Manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure. The following samples and analytes required manual integration:

8330 Level 2 standard (analyzed for the bracketing MRL standard for Nitroglycerin and PETN) – to correct the baseline.

TESTAMERICA WEST SACRAMENTO 353.2, NITROCELLULOSE

The matrix spikes, which were performed on sample 1, showed low recoveries due to possible matrix interferences. Since the laboratory control sample showed acceptable recoveries, no corrective action was performed.

**SEVERN
TRENT** **STL**
Severn Trent Laboratories, Inc.

Client	Pika International	Project Manager	Brian Stockwell	Date	6/21/07	Chain of Custody Number	333058
Address	8451 State Rte 5	Telephone Number (Area Code)/Fax Number	281-226-3179	Lab Number		Page	1 of 1

City	Ravenna	State	OH	Zip Code	44266	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)

Project Name and Location (State)	Carrier/Waybill Number	Special Instructions/
MEC Disposal		

Contract/Purchase Order/Quote No. 06-04-132-03	Matrix	Containers & Preservatives	Seal CPS - Measuring Scales Tape Measure Ruler		Conditions of Receipt
---	--------	----------------------------	---	--	-----------------------

[illegible]

Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Shahram Taherimin	Date	6/21/07	Time	1645	1. Received By	Rick Robison	Date	6-21-07	Time	1645
2. Relinquished By	Rick Robison	Date	6-21-07	Time	1714	2. Received By	[Signature]	Date	6-21-07	Time	1714
3. Relinquished By		Date		Time		3. Received By	[Signature]	Date		Time	

Comments

* PICKUP TIME WAS 1615*

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Test America North Canton

TestAmerica Cooler Receipt Form/Narrative

Lot Number: A7E220161

North Canton Facility

Client: Pika International

Project: 6-22-07

Quote#: 74619

Cooler Received on: 6/21/07

Opened on: 6-22-07

By: [Signature]

Fedx ☐ Client Drop Off ☐ UPS ☐

DHL ☐ FAS ☐ TestAmerica Courier ☒

(Signature)

Stetson ☐ US Cargo ☐

Other: _____

TestAmerica Cooler No# _____

Foam Box ☐

Client Cooler ☒

Other _____

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity 2

Were the custody seals signed and dated?

Yes ☒ No ☐ NA ☐

2. Shipper's packing slip attached to this form?

Yes ☒ No ☐ NA ☐

3. Did custody papers accompany the samples? Yes ☒ No ☐

Relinquished by client? Yes ☒ No ☐

4. Did you sign the custody papers in the appropriate place?

Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐

Other: _____

6. Cooler temperature upon receipt 4.1 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H₂O Slurry ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)?

Yes ☒ No ☐

8. Could all bottle labels and/or tags be reconciled with the COC?

Yes ☒ No ☐

9. Were samples at the correct pH upon receipt?

Yes ☐ No ☐ NA ☒

10. Were correct bottles used for the tests indicated?

Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials?

Yes ☐ No ☒ NA ☐

12. Sufficient quantity received to perform indicated analyses?

Yes ☒ No ☐

13. Was a Trip Blank present in the cooler? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

Temp taken 6/21/07 upon receipt.

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #092006 - Sulfuric Acid Lot # 092006-H₂SO₄; Sodium Hydroxide Lot # 122805 -NaOH; Hydrochloric Acid Lot # 100504-HCl; Sodium Hydroxide and Zinc Acetate Lot # 050205-CH₃COO₂ZN/NaOH

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

[illegible]

Discrepancies Cont'd	

Laboratory

STL Sacramento
880 Riverside Parkway

West Sacramento, CA

95605

Client Code: 1355288

Severn Trent Laboratories, Inc.
SAMPLE ANALYSIS REQUISITION

Lab Request SR093698

Report Package:

Need Analytical Report

Expanded Deliverables

2007-07-05

Project Manager:

PAT OMEARA

Sample I.D.

A7F220161-1

Work Order Number

J1KJ5

Client Sample ID

MEC-FILL-001

Sampling Date

2007-06-21 11:45

Analysis Required

SOLID,8330,Explosives+Nitroglycerin(SAC)

A7F220161-1

J1KJ5

MEC-FILL-001

2007-06-21 11:45

SOLID, UV/HPLC-SOP, Nitroguanidine (SAC)

A7F220161-1

J1KJ5

MEC-FILL-001

2007-06-21 11:45

SOLID, 353.2, Nitrocellulose as N (SAC)

A7F220161-4

J1KKT

MEC-FILL-002

2007-06-21 12:00

SOLID,8330,Explosives+Nitroglycerin(SAC)

A7F220161-4

J1KKT

MEC-FILL-002

2007-06-21 12:00

SOLID, UV/HPLC-SOP, Nitroguanidine (SAC)

A7F220161-4

J1KKT

MEC-FILL-002

2007-06-21 12:00

SOLID, 353.2, Nitrocellulose as N (SAC)

Please use Client Sample ID for report

Call PAT OMEARA with questions at 330-497-9396

Please send electronic reports. No hardcopy needed.

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by:

J. Medders

Date/Time:

6/26/07 3:00pm

Relinquished by:

J. Medders

Date/Time:

6/27/07 1015

Received for Lab by:

J. Medders

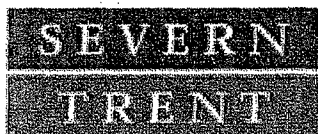
Date/Time:

6/27/07 1015

Shipping Method:

FED-EX

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION



STL

LOT RECEIPT CHECKLIST STL Sacramento

CLIENT N. Canton PM KD LOG # 416059
LOT# (QUANTIMS ID) A7F2201161 QUOTE# N/A LOCATION W18D

DATE RECEIVED 6/27/07 TIME RECEIVED 0855 Initials km Date 6/27/07

DELIVERED BY ☒ FEDEX ☐ CA OVERNIGHT ☐ CLIENT
☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL
☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS
☐ STL COURIER ☐ COURIERS ON DEMAND
☐ OTHER

CUSTODY SEAL STATUS ☒ INTACT ☐ BROKEN ☐ N/A

CUSTODY SEAL #(S) N/A

SHIPPING CONTAINER(S) ☐ STL ☒ CLIENT ☐ N/A

TEMPERATURE RECORD (IN °C) IR 1 ☐ 3 ☐ ☒ OTHER 5

COC #(S) N/A

TEMPERATURE BLANK Observed: 0 Corrected: 2

SAMPLE TEMPERATURE

Observed: 0 0 -1 Average: 0 Corrected Average: 0

COLLECTOR'S NAME: ☐ Verified from COC ☒ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW ☒ N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☒ N/A

VOA-ENCORES ☒ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A

☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☒ N/A

☒ Clouseau ☒ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☐ N/A

☒ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED

☒ PM NOTIFIED

Notes: _____



STL

Bottle Lot Inventory

Lot ID: A7F220161

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ	1			1																
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

1 = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 3/05 EM

Page 2

STL

METALS DATA

PIKA International, Inc.

Client Sample ID: MEC-FILL-001

TOTAL Metals

Lot-Sample #...: A7F220161-001

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7177021						
Aluminum	6570	20.4	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AC
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Arsenic	18.8	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AX
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Lead	10.0	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51A0
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Antimony	0.56 B	10.2	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AD
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Barium	28.8	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AE
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Selenium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51A1
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Beryllium	0.43 B	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AF
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Thallium	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51A2
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Cadmium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AG
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Calcium	4250	102	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AH
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				

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PIKA International, Inc.

Client Sample ID: MEC-FILL-001

TOTAL Metals

Lot-Sample #...: A7F220161-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	10.5	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AJ
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Cobalt	8.4	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AK
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Copper	17.4	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AL
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Iron	21300	20.4	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AM
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Magnesium	3630 J	102	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AN
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Manganese	316	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AP
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Nickel	20.3	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AQ
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Potassium	1040 J	510	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AR
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Silver	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AT
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Sodium	ND	102	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AU
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				

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PIKA International, Inc.

Client Sample ID: MEC-FILL-001

TOTAL Metals

Lot-Sample #...: A7F220161-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Vanadium	11.3	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AV
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Zinc	50.1	4.1	mg/kg	SW846 6010B	06/26-06/29/07	J1KJ51AW
		Dilution Factor: 1		Analysis Time...: 20:47	Analyst ID.....: 001887	
		Instrument ID...: I5				
Mercury	ND	0.10	mg/kg	SW846 7471A	06/26-06/27/07	J1KJ51A3
		Dilution Factor: 1		Analysis Time...: 15:16	Analyst ID.....: 001086	
		Instrument ID...: H1				

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

PIKA International, Inc.

Client Sample ID: MEC-FILL-002

TOTAL Metals

Lot-Sample #...: A7F220161-004

Matrix.....: SO

Date Sampled...: 06/21/07 12:00 Date Received...: 06/21/07

% Moisture.....: 0.87

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7177021						
Aluminum	2520	20.2	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AN
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Arsenic	4.9	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A9
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Lead	6.4	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AA
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Antimony	ND	10.1	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AP
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Barium	13.3	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AQ
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Selenium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AC
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Beryllium	0.30 B	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AR
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Thallium	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AD
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Cadmium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AT
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Calcium	8540	101	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AU
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				

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PIKA International, Inc.

Client Sample ID: MEC-FILL-002

TOTAL Metals

Lot-Sample #...: A7F220161-004

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	19.9	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AV
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Cobalt	4.5	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AW
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Copper	9.7	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1AX
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Iron	15100	20.2	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A0
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Magnesium	2550 J	101	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A1
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Manganese	244	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A2
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Nickel	17.0	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A3
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Potassium	449 B,J	504	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A4
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Silver	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A5
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Sodium	ND	101	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A6
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				

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PIKA International, Inc.

Client Sample ID: MEC-FILL-002

TOTAL Metals

Lot-Sample #...: A7F220161-004

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Vanadium	6.6	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A7
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Zinc	36.9	4.0	mg/kg	SW846 6010B	06/26-06/29/07	J1KKT1A8
		Dilution Factor: 1		Analysis Time...: 21:09	Analyst ID.....: 001887	
		Instrument ID...: I5				
Mercury	ND	0.10	mg/kg	SW846 7471A	06/26-06/27/07	J1KKT1AE
		Dilution Factor: 1		Analysis Time...: 15:15	Analyst ID.....: 001086	
		Instrument ID...: H1				

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A7F260000-021 Prep Batch #...: 7177021						
Aluminum	ND	20.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AA
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Arsenic	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AW
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Antimony	ND	10.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AC
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Lead	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AX
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Barium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AD
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Selenium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471A0
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Beryllium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AE
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Thallium	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471A1
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Cadmium	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AF
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Calcium	ND	100	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AG
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Chromium	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AH
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AJ
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Copper	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AK
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Iron	ND	20.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AL
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Magnesium	3.7 B	100	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AM
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Manganese	ND	1.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AN
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Nickel	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AP
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Potassium	15.8 B	500	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AQ
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Silver	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AR
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Sodium	ND	100	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AT
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Vanadium	ND	2.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AU
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Zinc	ND	4.0	mg/kg	SW846 6010B	06/26-06/29/07	J1Q471AV
		Dilution Factor: 1				
		Analysis Time...: 20:35		Analyst ID.....: 001887	Instrument ID...: I5	
Mercury	ND	0.10	mg/kg	SW846 7471A	06/26-06/27/07	J1Q471A2
		Dilution Factor: 1				
		Analysis Time...: 14:05		Analyst ID.....: 001086	Instrument ID...: H1	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A7F260000-021 Prep Batch #... 7177021					
Aluminum	90	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A3
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Arsenic	90	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CN
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Antimony	97	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A4
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Lead	90	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CP
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Barium	91	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A5
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Selenium	93	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CQ
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Beryllium	95	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A6
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Thallium	92	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CR
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Cadmium	91	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A7
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Calcium	93	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A8
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	92	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471A9
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Cobalt	92	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CA
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Copper	94	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CC
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Iron	100	(73 - 137)	SW846 6010B	06/26-06/29/07	J1Q471CD
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Magnesium	92	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CE
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Manganese	95	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CF
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Nickel	94	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CG
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Potassium	91	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CH
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Silver	99	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CJ
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Sodium	92	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CK
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Vanadium	91	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CL
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Zinc	99	(80 - 120)	SW846 6010B	06/26-06/29/07	J1Q471CM
		Dilution Factor: 1	Analysis Time...: 20:40	Analyst ID.....: 001887	
		Instrument ID...: I5			
Mercury	107	(73 - 123)	SW846 7471A	06/26-06/27/07	J1Q471CT
		Dilution Factor: 1	Analysis Time...: 14:06	Analyst ID.....: 001086	
		Instrument ID...: H1			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A7F260000-021 Prep Batch #...: 7177021							
Aluminum	200	181	mg/kg	90	SW846 6010B	06/26-06/29/07	J1Q471A3
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Arsenic	200	180	mg/kg	90	SW846 6010B	06/26-06/29/07	J1Q471CN
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Antimony	50.0	48.4	mg/kg	97	SW846 6010B	06/26-06/29/07	J1Q471A4
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Lead	50.0	45.1	mg/kg	90	SW846 6010B	06/26-06/29/07	J1Q471CP
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Barium	200	183	mg/kg	91	SW846 6010B	06/26-06/29/07	J1Q471A5
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Selenium	200	186	mg/kg	93	SW846 6010B	06/26-06/29/07	J1Q471CQ
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Beryllium	5.0	4.7	mg/kg	95	SW846 6010B	06/26-06/29/07	J1Q471A6
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Thallium	200	185	mg/kg	92	SW846 6010B	06/26-06/29/07	J1Q471CR
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Cadmium	5.0	4.5	mg/kg	91	SW846 6010B	06/26-06/29/07	J1Q471A7
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				
Calcium	5000	4660	mg/kg	93	SW846 6010B	06/26-06/29/07	J1Q471A8
			Dilution Factor: 1		Analysis Time...: 20:40		Analyst ID.....: 001887
			Instrument ID...: I5				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	20.0	18.4	mg/kg	92	SW846 6010B	06/26-06/29/07	J1Q471A9
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Cobalt	50.0	46.2	mg/kg	92	SW846 6010B	06/26-06/29/07	J1Q471CA
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Copper	25.0	23.4	mg/kg	94	SW846 6010B	06/26-06/29/07	J1Q471CC
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Iron	100	99.7	mg/kg	100	SW846 6010B	06/26-06/29/07	J1Q471CD
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Magnesium	5000	4610	mg/kg	92	SW846 6010B	06/26-06/29/07	J1Q471CE
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Manganese	50.0	47.4	mg/kg	95	SW846 6010B	06/26-06/29/07	J1Q471CF
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Nickel	50.0	47.0	mg/kg	94	SW846 6010B	06/26-06/29/07	J1Q471CG
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Potassium	5000	4530	mg/kg	91	SW846 6010B	06/26-06/29/07	J1Q471CH
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Silver	5.0	5.0	mg/kg	99	SW846 6010B	06/26-06/29/07	J1Q471CJ
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Sodium	5000	4620	mg/kg	92	SW846 6010B	06/26-06/29/07	J1Q471CK
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Vanadium	50.0	45.6	mg/kg	91	SW846 6010B	06/26-06/29/07	J1Q471CL
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc	50.0	49.3	mg/kg	99	SW846 6010B	06/26-06/29/07	J1Q471CM
			Dilution Factor: 1		Analysis Time...: 20:40	Analyst ID.....: 001887	
			Instrument ID...: I5				
Mercury	0.83	0.90	mg/kg	107	SW846 7471A	06/26-06/27/07	J1Q471CT
			Dilution Factor: 1		Analysis Time...: 14:06	Analyst ID.....: 001086	
			Instrument ID...: H1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A7F220161-001 Prep Batch #...: 7177021					
Aluminum	NC,MSB	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CF
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Arsenic	84	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51C2
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Antimony	44 N	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CG
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Lead	85	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51C3
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Barium	88	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CH
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Selenium	84	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51C4
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Beryllium	89	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CJ
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Thallium	84	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51C5
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Cadmium	82	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CK
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Calcium	99	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CL
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	102	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CM
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Cobalt	88	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CN
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Copper	98	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CP
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Iron	NC,MSB	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CQ
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Magnesium	102	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CR
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Manganese	NC,MSB	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CT
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Nickel	93	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CU
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Potassium	92	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CV
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Silver	90	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CW
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Sodium	87	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51CX
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Vanadium	93	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51C0
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc	110	(75 - 125)	SW846 6010B	06/26-06/29/07	J1KJ51C1
		Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5	
		Analyst ID.....: 001887			
Mercury	107	(10 - 199)	SW846 7471A	06/26-06/27/07	J1KJ51C6
		Dilution Factor: 1	Analysis Time...: 15:16	Instrument ID...: H1	
		Analyst ID.....: 001086			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A7F220161-001 Prep Batch #....: 7177021								
Aluminum	6570	204	9730	mg/kg		SW846 6010B	06/26-06/29/07	J1KJ51CF
			Qualifiers: NC,MSB					
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Arsenic	18.8	204	191	mg/kg	84	SW846 6010B	06/26-06/29/07	J1KJ51C2
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Antimony	0.56	51.0	23.2 N	mg/kg	44	SW846 6010B	06/26-06/29/07	J1KJ51CG
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Lead	10.0	51.0	53.6	mg/kg	85	SW846 6010B	06/26-06/29/07	J1KJ51C3
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Barium	28.8	204	208	mg/kg	88	SW846 6010B	06/26-06/29/07	J1KJ51CH
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Selenium	ND	204	172	mg/kg	84	SW846 6010B	06/26-06/29/07	J1KJ51C4
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Beryllium	0.43	5.1	5.0	mg/kg	89	SW846 6010B	06/26-06/29/07	J1KJ51CJ
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Thallium	ND	204	172	mg/kg	84	SW846 6010B	06/26-06/29/07	J1KJ51C5
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Cadmium	ND	5.1	4.2	mg/kg	82	SW846 6010B	06/26-06/29/07	J1KJ51CK
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Calcium	4250	5100	9310	mg/kg	99	SW846 6010B	06/26-06/29/07	J1KJ51CL
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	10.5	20.4	31.3	mg/kg	102	SW846 6010B	06/26-06/29/07	J1KJ51CM
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Cobalt	8.4	51.0	53.4	mg/kg	88	SW846 6010B	06/26-06/29/07	J1KJ51CN
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Copper	17.4	25.5	42.4	mg/kg	98	SW846 6010B	06/26-06/29/07	J1KJ51CP
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Iron	21300	102	25000	mg/kg		SW846 6010B	06/26-06/29/07	J1KJ51CQ
			Qualifiers: NC,MSB					
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Magnesium	3630	5100	8820	mg/kg	102	SW846 6010B	06/26-06/29/07	J1KJ51CR
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Manganese	316	51.0	397	mg/kg		SW846 6010B	06/26-06/29/07	J1KJ51CT
			Qualifiers: NC,MSB					
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Nickel	20.3	51.0	67.7	mg/kg	93	SW846 6010B	06/26-06/29/07	J1KJ51CU
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Potassium	1040	5100	5740	mg/kg	92	SW846 6010B	06/26-06/29/07	J1KJ51CV
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Silver	ND	5.1	4.6	mg/kg	90	SW846 6010B	06/26-06/29/07	J1KJ51CW
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					
Sodium	ND	5100	4450	mg/kg	87	SW846 6010B	06/26-06/29/07	J1KJ51CX
			Dilution Factor: 1		Analysis Time...: 20:47		Instrument ID...: I5	
			Analyst ID.....: 001887					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A7F220161

Matrix.....: SO

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Vanadium	11.3	51.0	58.7	mg/kg	93	SW846 6010B	06/26-06/29/07	J1KJ51C0
				Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5		
				Analyst ID.....: 001887				
Zinc	50.1	51.0	106	mg/kg	110	SW846 6010B	06/26-06/29/07	J1KJ51C1
				Dilution Factor: 1	Analysis Time...: 20:47	Instrument ID...: I5		
				Analyst ID.....: 001887				
Mercury	ND	0.17	0.18	mg/kg	107	SW846 7471A	06/26-06/27/07	J1KJ51C6
				Dilution Factor: 1	Analysis Time...: 15:16	Instrument ID...: H1		
				Analyst ID.....: 001086				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #....: A7F220161 Work Order #....: J1KJ5-SMP Matrix.....: SO

J1KJ5-DUP

Date Sampled...: 06/21/07 11:45 Date Received...: 06/21/07

% Moisture.....: 2.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Aluminum	6570	7880	mg/kg	18	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Arsenic	18.8	22.3	mg/kg	17	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Lead	10.0	11.5	mg/kg	14	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Antimony	0.56 B	ND	mg/kg	200	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Barium	28.8	33.0	mg/kg	13	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Selenium	ND	ND	mg/kg	0	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Beryllium	0.43 B	0.45 B	mg/kg	4.5	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Thallium	ND	ND	mg/kg	0	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887
Cadmium	ND	ND	mg/kg	0	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Instrument ID...: I5	Analysis Time...: 20:47	Analyst ID.....: 001887

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SAMPLE DUPLICATE EVALUATION REPORT

Metals

Lot-Sample #....: A7F220161-000 Work Order #....: J1KJ5-SMP Matrix.....: SO
J1KJ5-DUP

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Calcium	4250	5280	mg/kg	22	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Chromium	10.5	12.5	mg/kg	18	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Cobalt	8.4	10	mg/kg	17	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Copper	17.4	20.2	mg/kg	15	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Iron	21300	25000	mg/kg	16	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Magnesium	3630 J	4510	mg/kg	22	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Manganese	316	360	mg/kg	13	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Nickel	20.3	24.0	mg/kg	16	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		
Potassium	1040 J	1210	mg/kg	15	(0-20)	SD Lot-Sample #: A7F220161-001 SW846 6010B	06/26-06/29/07	7177021
						Dilution Factor: 1 Analysis Time...: 20:47	Analyst ID.....: 001887	
						Instrument ID...: I5		

(Continued on next page)

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Lot-Sample #...: A7F220161-000 **Work Order #...**: J1KJ5-SMP
J1KJ5-DUP **Matrix.....**: SO

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Silver	ND	ND	mg/kg	0	(0-20)	SW846 6010B	06/26-06/29/07	7177021
						SD Lot-Sample #: A7F220161-001		
						Dilution Factor: 1	Analyst ID.....: 001887	
						Instrument ID...: I5		
Sodium	ND	ND	mg/kg	0	(0-20)	SW846 6010B	06/26-06/29/07	7177021
						SD Lot-Sample #: A7F220161-001		
						Dilution Factor: 1	Analyst ID.....: 001887	
						Instrument ID...: I5		
Vanadium	11.3	12.8	mg/kg	13	(0-20)	SW846 6010B	06/26-06/29/07	7177021
						SD Lot-Sample #: A7F220161-001		
						Dilution Factor: 1	Analyst ID.....: 001887	
						Instrument ID...: I5		
Zinc	50.1	60.0	mg/kg	18	(0-20)	SW846 6010B	06/26-06/29/07	7177021
						SD Lot-Sample #: A7F220161-001		
						Dilution Factor: 1	Analyst ID.....: 001887	
						Instrument ID...: I5		
Mercury	ND	ND	mg/kg	0	(0-50)	SW846 7471A	06/26-06/27/07	7177021
						SD Lot-Sample #: A7F220161-001		
						Dilution Factor: 1	Analyst ID.....: 001086	
						Instrument ID...: H1		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL

END OF REPORT

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-fill-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 12/16/2008 Weather Cloudy Temperature 20

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1100 hrs Sample Type: Composite MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location If MI, # of increments taken: 30
Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity		
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample: ppm	Propellants		Nitrate				
Water Level FT	TAL Metals		Sulfate		QA Samples		
Temperature °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA
Sp. Conductance: uMHOs	Cyanides		Arsenic	X	Duplicate ID	Yes / No	NA
pH units	TOC		Chromium	X	Equipment Rinse ID	Yes / No	NA
Turbidity N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA

Sample Description

Split Sample

DK Brown, well sorted, NO odor
NO stains, massive, non plastic
wet, clayey silt with trace of
gravel

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Shahram Taherini (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 12/18/08

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-fill-001

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 12/16/2008 Weather Cloudy Temperature 20

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well/Purging Form Yes - No					

Sample Collection: 1030 hrs Sample Type: Composite MI - Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30 Estimated - Measured - Surveyed
Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity			
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate					
Water Level FT	TAL Metals		Sulfate		QA Samples			
Temperature °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		Arsenic	X	Duplicate ID	Yes / No	NA	
pH units	TOC		Chromium	X	Equipment Rinse ID	Yes / No	NA	
Turbidity N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description

DK Brown, well sorted, no odor
NO stains, massive, non plastic
wet clayey silt with trace of
gravel

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Shahram Taherini (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 12/18/08

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. WBG-RVAAP


WBG-RVAAP

Lot #: A8L170134

Brian Stockwell

PIKA International, Inc.
8451 St. Rt. 5
Ravenna, OH 44266

TESTAMERICA LABORATORIES, INC.



Patrick J. O'Meara
Project Manager

December 22, 2008

CASE NARRATIVE

A8L170134

The following report contains the analytical results for two solid samples submitted to TestAmerica North Canton by Pika International, Inc. from the WBG-RVAAP Site. The samples were received December 17, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Brian Stockwell on December 19, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Patrick J. O'Meara, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 24.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.7°C.

METALS

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio VAP
(#CL0024), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit



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EXECUTIVE SUMMARY - Detection Highlights

A8L170134

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
WBG-FILL-001 12/16/08 10:30 001				
Arsenic	10.8	1.0	mg/kg	SW846 6010B
Chromium	16.1	2.0	mg/kg	SW846 6010B
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD
WBG-FILL-002 12/16/08 11:00 002				
Arsenic	10.2	1.0	mg/kg	SW846 6010B
Chromium	25.1	2.0	mg/kg	SW846 6010B
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8L170134

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8L170134

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
K4T8P	001	WBG-FILL-001		12/16/08	10:30
K4T88	002	WBG-FILL-002		12/16/08	11:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PIKA International, Inc.

Client Sample ID: WBG-FILL-001

TOTAL Metals

Lot-Sample #...: A8L170134-001

Matrix.....: SO

Date Sampled...: 12/16/08 10:30 Date Received...: 12/17/08

% Moisture.....: 1.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8353023					
Arsenic	10.8	1.0	mg/kg	SW846 6010B	12/18-12/19/08	K4T8P1AG
		Dilution Factor: 1		MDL.....: 0.30		
Chromium	16.1	2.0	mg/kg	SW846 6010B	12/18-12/19/08	K4T8P1AF
		Dilution Factor: 1		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBG-FILL-001

General Chemistry

Lot-Sample #...: A8L170134-001 Work Order #...: K4T8P Matrix.....: SO
Date Sampled...: 12/16/08 10:30 Date Received...: 12/17/08
% Moisture.....: 1.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD	12/18-12/19/08	8353459
		Dilution Factor: 1		MDL.....: 10.0		

PIKA International, Inc.

Client Sample ID: WBG-FILL-002

TOTAL Metals

Lot-Sample #...: A8L170134-002

Matrix.....: SO

Date Sampled...: 12/16/08 11:00 Date Received...: 12/17/08

% Moisture.....: 1.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	8353023					
Arsenic	10.2	1.0	mg/kg	SW846 6010B	12/18-12/19/08	K4T881AF
		Dilution Factor: 1		MDL.....: 0.30		
Chromium	25.1	2.0	mg/kg	SW846 6010B	12/18-12/19/08	K4T881AE
		Dilution Factor: 1		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

PIKA International, Inc.

Client Sample ID: WBG-FILL-002

General Chemistry

Lot-Sample #...: A8L170134-002 Work Order #...: K4T88 Matrix.....: SO
Date Sampled...: 12/16/08 11:00 Date Received...: 12/17/08
% Moisture.....: 1.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD	12/18-12/19/08	8353459
		Dilution Factor: 1		MDL.....: 10.0		

QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8L170134

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MB Lot-Sample #: A8L180000-023 Prep Batch #... : 8353023						
Arsenic	ND	1.0	mg/kg	SW846 6010B	12/18-12/19/08	K4W431AC
		Dilution Factor: 1				
Chromium	ND	2.0	mg/kg	SW846 6010B	12/18-12/19/08	K4W431AA
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8L170134

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids		Work Order #: K40LE1AA		MB Lot-Sample #:	A8L180000-459	
	ND	10.0	%	MCAWW 160.3 MOD	12/18-12/19/08	8353459
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8L170134

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-----------------------------	----------------------------	---------------	---------------------------------------	---------------------

LCS Lot-Sample#: A8L180000-023 Prep Batch #...: 8353023

Arsenic	90	(80 - 120)	SW846 6010B	12/18-12/19/08	K4W431AE
		Dilution Factor: 1			

Chromium	94	(80 - 120)	SW846 6010B	12/18-12/19/08	K4W431AD
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8L170134

Matrix.....: SO

Date Sampled...: 12/16/08 10:30 Date Received...: 12/17/08

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-----------------------------------	----------------------------------	---------------	---	---------------------

MS Lot-Sample #: A8L170134-001 Prep Batch #...: 8353023

Arsenic	82	(75 - 125)	SW846 6010B	12/18-12/19/08	K4T8P1AJ
		Dilution Factor: 1			

Chromium	94	(75 - 125)	SW846 6010B	12/18-12/19/08	K4T8P1AH
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #...: A8L170134 Work Order #...: K4T8P-SMP Matrix.....: SO

K4T8P-DUP

Date Sampled...: 12/16/08 10:30 Date Received...: 12/17/08

% Moisture.....: 1.3

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Arsenic	10.8	11.3	mg/kg	4.4	(0-20)	SD Lot-Sample #: A8L170134-001 SW846 6010B	12/18-12/19/08	8353023
Dilution Factor: 1								
Chromium	16.1	16.2	mg/kg	0.21	(0-20)	SD Lot-Sample #: A8L170134-001 SW846 6010B	12/18-12/19/08	8353023
Dilution Factor: 1								

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

General Chemistry

Matrix.....: SOLID

% Moisture.....: 43

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	57.1	58.1	%	1.7	(0-20)	SD Lot-Sample #:	A8K260220-018	
						MCAWW 160.3 MOD	12/18-12/19/08	8353459
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8L170134 Work Order #...: K4E5Q-SMP Matrix.....: SOLID

K4E5Q-DUP

Date Sampled...: 12/08/08 15:44 Date Received...: 12/10/08

% Moisture.....: 1.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.4	98.3	%	0.12	(0-20)	SD Lot-Sample #: A8L100179-010 MCAWW 160.3 MOD	12/18-12/19/08	8353459
Dilution Factor: 1								

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A8L170134

Client PIKA Project WBG-RNAP By: [Signature]
Cooler Received on 12/17/08 Opened on 12/17/08 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐
TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ☐
1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
If YES, Quantity _____ Quantity Unsalvageable _____
Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 5.2 °C See back of form for multiple coolers/temps ☐
METHOD: IR ☒ Other ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒
Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample
Receiving to meet recommended pH level(s). Nitric Acid Lot# 100108-HNO₃; Sulfuric Acid Lot# 100108-H₂SO₄; Sodium
Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-
(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

[illegible]

Discrepancies Cont'd:

[illegible]

END OF REPORT

Client

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*



Appendix M

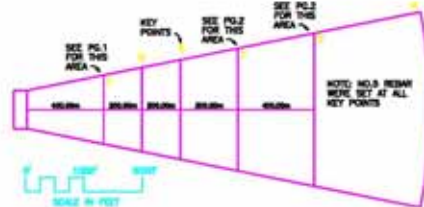
Pre-Excavation, Excavation Limit, and Restoration Grade Surveys

RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO PORTAGE COUNTY MARK 19 FIRING RANGE

ENVIRONMENTAL EXCAVATIONS (AREA WAS FORMERLY THE WINKLEPECK BURNING GROUNDS)
PREPARED FOR PIKA INTERNATIONAL, INC.

DRAWING NOTES

1. SURVEYED AND GROUND MONITORING POINTS (GMP) PLANT RECORDS/STATIONING, MONITORING POINTS (MONITORING POINTS) FROM MAY 2008 TO DATE.
2. MONITORING POINTS AND GROUND MONITORING POINTS (GMP) PLANT RECORDS/STATIONING, MONITORING POINTS (MONITORING POINTS) FROM MAY 2008 TO DATE.
3. SURVEYED SCALE FACTOR (SCALE) OF 1:2500.
4. MONITORING POINTS AND GROUND MONITORING POINTS (GMP) PLANT RECORDS/STATIONING, MONITORING POINTS (MONITORING POINTS) FROM MAY 2008 TO DATE.
5. MONITORING POINTS AND GROUND MONITORING POINTS (GMP) PLANT RECORDS/STATIONING, MONITORING POINTS (MONITORING POINTS) FROM MAY 2008 TO DATE.



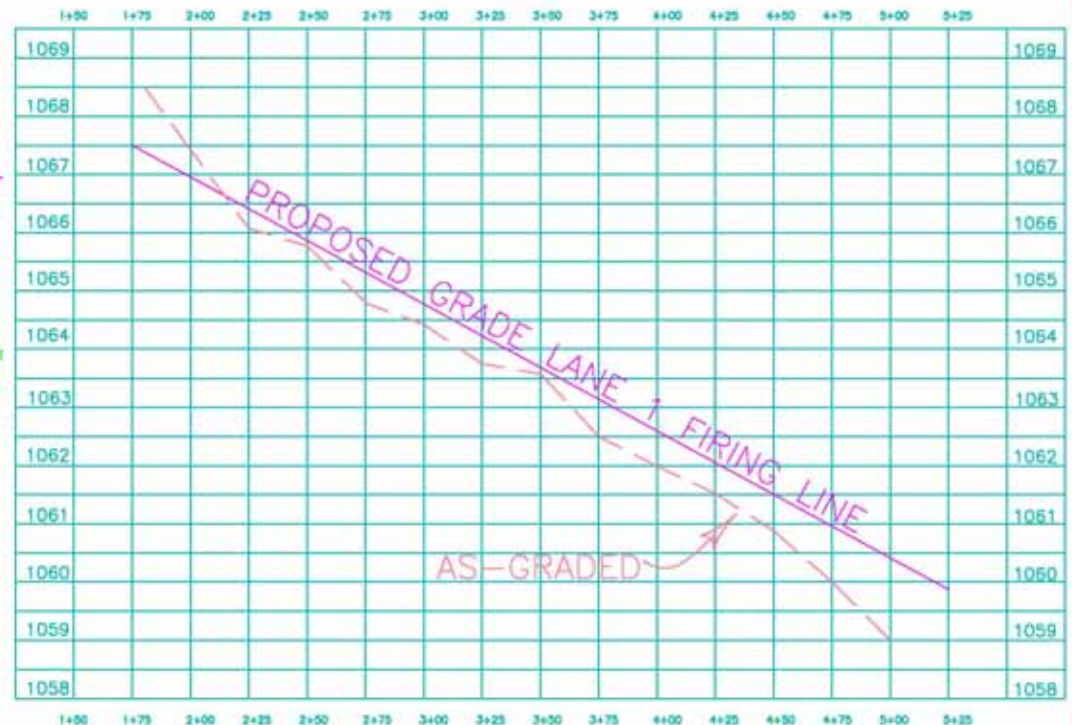
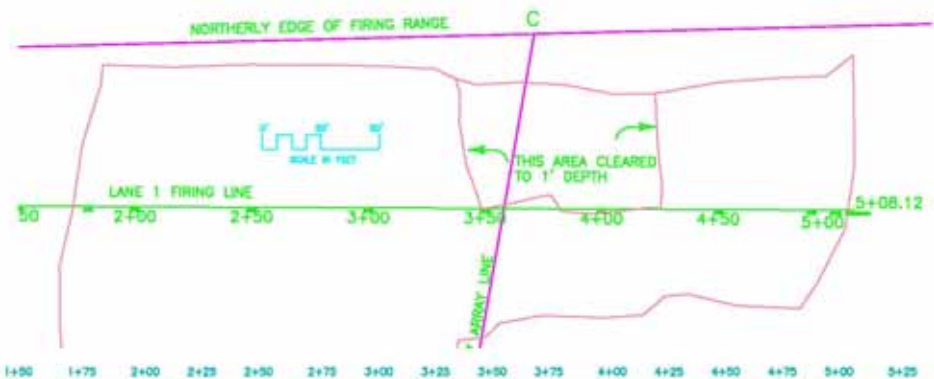
PREPARED IN MAY 2009 BY:



MK-19 FIRING RANGE SITE INDEX MAP



NEAR FORMER BURNING PADS 61 & 61A



RAVENNA ARMY AMMUNITION PLANT
RAVENNA, OHIO PORTAGE COUNTY
MARK 19 FIRING RANGE

(AREA WAS FORMERLY THE WINKLEPECK BURNING GROUNDS)

ENVIRONMENTAL EXCAVATIONS

PREPARED FOR PIKA INTERNATIONAL, INC.

DRAWING NOTES

1. BEARINGS ARE GRID NORTH, UNLESS
OTHER STATE PLANT RECORDS
COORDINATES, NORTH ZONE ORIGINATING
FROM BM 2 152C IN CONC.
1001955.073 1238778.413 ELY (NAD83)1034.48
2. NAV-3 COORDINATES ARE GRID. CONVERSION IS 0.56781
3. CORRECTED SCALE FACTOR USED (SCALED AT NAV-3)
DOWNWARD TO GRID (1.000105 UP TO SURFACE)
4. YOU MAY DOWNLOAD THE FREE UTILITY CORPSON
AT <http://corpsweb.safemaps.mil/webcorps/corpscon.html>
TO CONVERT COORDINATES TO ANOTHER MAP PROJECTION

PREPARED IN MAY 2009 BY:



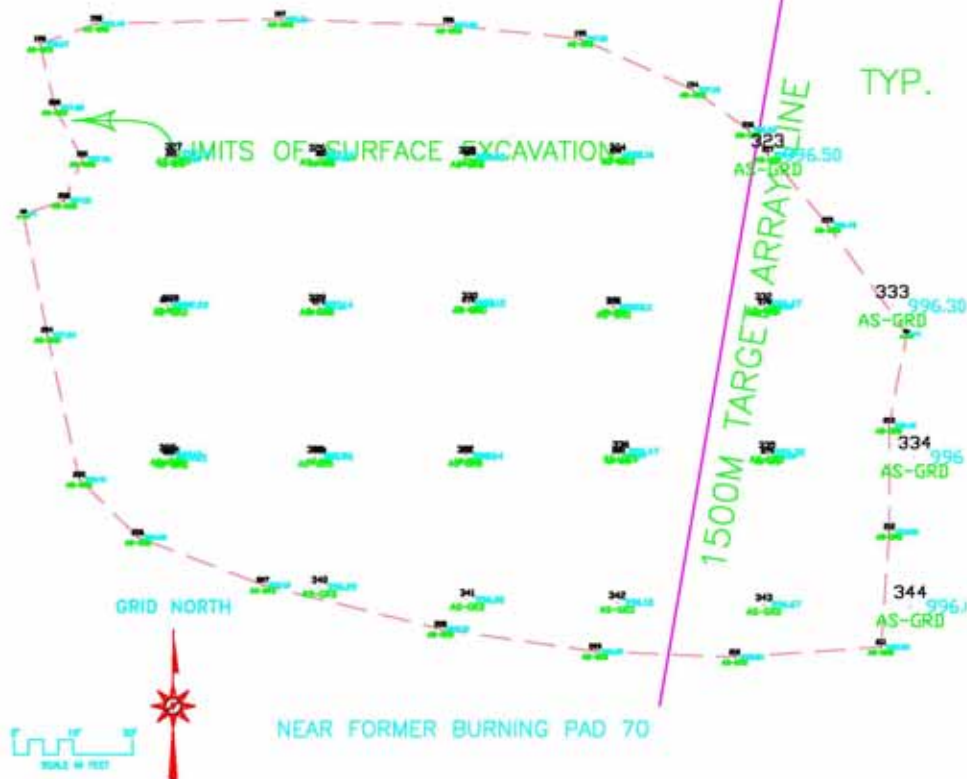
NEAR FORMER BURNING PAD 67

NORTHERLY EDGE OF FIRING RANGE



NORTHERLY EDGE OF FIRING RANGE

G





Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix N

Asbestos Visual Inspection Report



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

November 18, 2008

Mr. Brian Stockwell
PIKA International
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266

**RE: Area Inspection and Sampling for Asbestos
Diamond # 8-0117**

Description of Work

Diamond Environmental, LLC. was contacted by Mr. Brian Stockwell of PIKA to perform the following at the Ravenna Army Ammunition Plant in Ravenna, Ohio.:

Winklepeck Burning Ground Pad 61A, Pad 70, Pad 61

A visual inspection of the surface areas of each pad was performed for asbestos debris. No visibly discernible asbestos containing material was observed.

Each Pad area was split in two parts. Thirty random surface (1"-3" depth) samples were taken in each part.

The 30 samples was placed in one container and homogenized.

One sample was taken of the homogenized material and placed in a jar for analysis.

The inspection and sampling was conducted by Mr. Keith Bickel, CAHES # 31476 on November 3 & 17, 2008.

Please contact the undersigned if you require any additional information. Thank you for consulting Diamond Environmental.

Sincerely,

Diamond Environmental, LLC.

Keith R. Bickel, CHMM, REP, CAHES
Asbestos Project Coordinator



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

January 1, 2009

Mr. Brian Stockwell
PIKA International
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266

**RE: Area Inspection and Sampling for Asbestos
Diamond # 8-0129**

Description of Work

Diamond Environmental, LLC. was contacted by Mr. Brian Stockwell of PIKA to perform the following at the Ravenna Army Ammunition Plant in Ravenna, Ohio.:

Winklepeck Burning Ground Berm

A visual inspection of the surface area was performed for asbestos debris. No visibly discernible asbestos containing material was observed.

The Berm area was split in two parts. Thirty random surface (1"-3" depth) samples were taken in each part.

The 30 samples was placed in one container and homogenized.

One sample was taken of the homogenized material and placed in a jar for analysis.

The inspection and sampling was conducted by Mr. Keith Bickel, CAHES # 31476 on November 24, 2008.

Please contact the undersigned if you require any additional information. Thank you for consulting Diamond Environmental.

Sincerely,

Diamond Environmental, LLC.

Keith R. Bickel, CHMM, REP, CAHES
Asbestos Project Coordinator



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

January 1, 2009

Mr. Brian Stockwell
PIKA International
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266

**RE: Area Re-inspection and Re-sampling for Asbestos
Diamond # 8-0129a**

Description of Work

Diamond Environmental, LLC. was contacted by Mr. Brian Stockwell of PIKA to perform the following at the Ravenna Army Ammunition Plant in Ravenna, Ohio.:

Winklepeck Burning Ground Berm

A visual re-inspection of the surface area was performed for asbestos debris. No visibly discernible asbestos containing material was observed.

The Berm area was re-split in two parts. Thirty random surface (1"-3" depth) samples were taken in each part.

The 30 samples was placed in one container and homogenized.

One sample was taken of the homogenized material and placed in a jar for analysis.

The re-inspection and re-sampling was conducted by Mr. Keith Bickel, CAHES # 31476 on December 2, 2008.

Please contact the undersigned if you require any additional information. Thank you for consulting Diamond Environmental.

Sincerely,

Diamond Environmental, LLC.

Keith R. Bickel, CHMM, REP, CAHES
Asbestos Project Coordinator



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

April 29, 2009

Mr. Brian Stockwell
PIKA International
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266

**RE: Area Inspection and Sampling for Asbestos
Diamond # 9-0040**

Description of Work

Diamond Environmental, LLC. was contacted by Mr. Brian Stockwell of PIKA to perform a visual inspection and soil sampling in the following at the Ravenna Army Ammunition Plant in Ravenna, Ohio.:

Winklepeck Burning Ground Pad 61A, Pad 70, Pad 61, and Berm

A visual inspection of the surface areas of each pad was performed for asbestos debris. No visibly discernible asbestos containing material was observed. The inspection and sampling was conducted by Mr. Keith Bickel, CAHES # 31476 on April 20, 2009.

Sampling

Samples were taken as follows:

- Pad 61A –east
- Pad 61A-west
- Berm
- Pad 61
- Pad 61 (Duplicate)
- Pad 70

Thirty random surface (1"-3" depth) samples were taken in each area.

The 30 samples was placed in one container and homogenized.

One sample was taken of the homogenized material and placed in a jar for analysis.

Results

No asbestos was detected in the soil samples (see sample results).

Please contact the undersigned if you require any additional information. Thank you for consulting Diamond Environmental, LLC..

Sincerely,

Diamond Environmental, LLC.

Keith R. Bickel, CHMM, REP, CAHES
Asbestos Project Coordinator



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

May 1, 2009

Mr. Brian Stockwell
PIKA International
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266

**RE: Area Inspection and Sampling for Asbestos
Diamond # 9-0043**

Description of Work

Diamond Environmental, LLC. was contacted by Mr. Brian Stockwell of PIKA to perform a visual inspection and soil sampling in the Winklepeck Burning Ground stock pile finger print at the Ravenna Army Ammunition Plant in Ravenna, Ohio.

A visual inspection of the surface areas of the stock pile finger print. No visibly discernible asbestos containing material was observed. The inspection and sampling was conducted by Mr. Keith Bickel, CAHES # 31476 on April 28, 2009.

Sampling

Samples were taken as follows:

- The stock pile finger print was divided into 4 areas.
- Thirty random surface (1"-3" depth) samples were taken in each area.
- The 30 samples were placed in one container and homogenized.
- One sample was taken of the homogenized material and placed in a jar for analysis.
- A total of four samples were taken to the laboratory for analysis.

Results

No asbestos was detected in the four soil samples (see sample results).

Please contact the undersigned if you require any additional information. Thank you for consulting Diamond Environmental, LLC..

Sincerely,

Diamond Environmental, LLC.

Keith R. Bickel, CHMM, REP, CAHES
Asbestos Project Coordinator



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix O

Asbestos Analytical Sampling Results and Field Sampling Forms

**WBG - SAMPLE KEY
ASBESTOS**

	<i>SAMPLE ID</i>	Sample Date
Post Excavation		
PAD 61A	WBGcs-P61Am-BOT(E)-SO	11/3/2008
	WBGcs-P61Am-BOT(W)-SO	11/3/2008
	WBGcs-P61Am-BOT(E)-SO-002	4/20/2009
	WBGcs-P61Am-BOT(W)-SO-002	4/20/2009
PAD 61	WBGcs-P61m-SDW-SO	11/17/2008
	WBGcs-P61m-SDW-DUP	11/17/2008
	WBGcs-P61m-BOT-SO	11/17/2008
	WBGcs-P61m-SDW-SO-002	4/20/2009
	WBGcs-P61m-SDW-DUP-002	4/20/2009
	WBGcs-P61m-BOT-SO-002	4/20/2009
PAD 61 - BERM	WBGcs-P61m-BERM-SO	11/24/2008
	WBGcs-P61m-BERM2-SO	12/2/2008
	WBGcs-P61m-BERM-SO-002	4/20/2009
PAD 70	WBGcs-P70m-SFC-SO	11/17/2008
	WBGcs-P70m-SFC-SO-002	4/20/2009
Excavation Stockpile Footprint Soils		
	WBGss-SPFPm-001-SO	3/12/2009
	WBGss-SPFPm-002-SO	3/12/2009
	WBGss-SPFPm-003-SO	3/12/2009
	WBGss-SPFPm-004-SO	3/12/2009
	WBGss-SPFPm-001-2-SO	3/24/2009
	WBGss-SPFPm-002-2-SO	3/24/2009
	WBGss-SPFPm-003-2-SO	3/24/2009
	WBGss-SPFPm-004-2-SO	3/24/2009
	WBGss-SPFPm-001-3-SO	4/28/2009
	WBGss-SPFPm-002-3-SO	4/28/2009
	WBGss-SPFPm-003-3-SO	4/28/2009
	WBGss-SPFPm-004-3-SO	4/28/2009

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-05 - P61A1 - BOT (E) - 50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/3/08 Weather: Cloudy / no wind Temperature: 55°F

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge		
Method	Bailer		Sample Bottle		Scoop	<input checked="" type="checkbox"/> Trowel	
	Pump			Bacon Bomb		Bowl	Hand Auger
	Micro-purge					Push Probe	<input checked="" type="checkbox"/> Plastic Liner
Type/Construction					Mattocks		
Miscellaneous	Well Purging Form Yes - No						

Sample Collection: 11:00 hrs

Sample Type: Composite MI - Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3" FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity			
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate					
Water Level: FT	TAL Metals		Sulfate		QA Samples			
Temperature: °C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID		NA	
pH: units	TOC		RDX		Equipment Rinse ID		NA	
Turbidity: N.T.U.	Grain Size				Trip Blank ID		NA	

Sample Description

Brown, silty, sandy clay, some organics
moist no odor

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Keith R. Bickel (Please Print) # 31476 ES

Signature: Keith R. Bickel

Reviewed by: Sue Boles (Please Print)

Signature: Sue Boles Date: 11/3/08

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WB6CS - P6/Am - BOT(W) - SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/3/08

Weather: Cloudy / snow

Temperature: 53°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe <input checked="" type="checkbox"/> Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 10:35 hrs

Sample Type: Composite (MI) Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3' FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings:	VOC		TPH GRO		Corrosivity			
Background: ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate					
Water Level: FT	TAL Metals		Sulfate		QA Samples			
Temperature: °C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID		NA	
pH: units	TOC		RDX		Equipment Rinse ID		NA	
Turbidity: N.T.U.	Grain Size				Trip Blank ID		NA	

Sample Description

Brown, silty sandy clay - moist
no odor - some organics

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Kerth R. Bickel (Please Print) 31476 ES

Signature: Kerth R Bickel

Reviewed by: Sue Boles (Please Print)

Signature: Sue Boles Date: 11/3/08

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504067
Date Analyzed: 11/4/2008
Person Submitting: S. Boles

Attention: Brian Stockwell

Page 1 of 1

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0907726	WBGCS-P61AM-BOT(E)-50	<1%	--	--	--	--	TR	--	5	--	--	95	Gray	SW	
0907727	WBGCS-P61AM-BOT(W)-50	<1%	--	--	--	--	--	--	5	--	--	95	Gray	SW	

Based on this type of heterogeneous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.

Surat Watson

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

AMA (0100170), NAE (0101143), and NVLAP (010920) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD. 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



Focused on Results

CHAIN OF CUSTODY

(Please Refer To This
Number For Inquires)

Mailing/Billing Information:

1. Client Name: PIKA International Inc
2. Address 1: 8451 St Rt 5
3. Address 2: Ravenna, OH 44266
4. Address 3: _____
5. Phone #: 330-358-7135 Fax #: _____

Submittal Information:

1. Job Name: WBG RD/RA
2. Job Location: RVAAP
3. Job #: 05-01-124 P.O. #:
4. Contact Person: Brian Stackwell @ phone# 330-358-7135
5. Submitted by: S. Bales Signature: [Signature]

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)		NORMAL BUSINESS HOURS		REPORT TO:
<input type="checkbox"/> Immediate Date Due: _____		<input type="checkbox"/> 3 Day	<input type="checkbox"/> Results Required By Noon (Every Attempt Will Be Made to Accomodate)	<input type="checkbox"/> Include CQC Field Data Sheets with Report
<input checked="" type="checkbox"/> 24 Hours Time Due: _____	<input checked="" type="checkbox"/> Next Day	<input type="checkbox"/> 5 Day + Date Due: <u>11/05/08</u>		<input type="checkbox"/> Email: <u>bstaakwell@pikeinc.com</u>
Comments: _____	<input type="checkbox"/> 2 Day			<input type="checkbox"/> Fax: _____
				<input type="checkbox"/> Verbal: _____

Asbestos Analysis

PCM Ai?™ Please Indicate Filter Type:

- PC MCE Porosity_____in a 25mm 37mm
☐ NIOSH 7400_____ (QTY)
☐ Fiberglass_____ (QTY)

TEM Air ~ Please Indicate Filter Type:

- PC MCE Porosity _____ in a 25mm 37mm
☐ AHERA _____ (QTY)
☐ NIOSH 7402 _____ (QTY)
☐ Other (specify _____) _____ (QTY)

PLMBulk

- ☒ EPA 600 - Visual Estimate 2 (QTY)
☐ EPA Point Count _____ (QTY)
☐ NY State Friable 198.1 _____ (QTY)
☐ Grav. Reduction ELAP 198.6 _____ (QTY)
☐ Other (specify) _____ (QTY)

TEM Bulk

- ☐ ELAP 198.4/Charfield _____ (QTY)
☐ NY State PLM/TEM _____ (QTY)
☐ Residual Ash _____ (QTY)

TEAM DISCUSS

- ☐ Qual. (pres/abs) Vacuum/Dust _____ (QTY)
☐ Quan. (s/area) Vacuum D5755-95 _____ (QTY)
☐ Quan. (s/area) Dust D6480-99 _____ (QTY)

TEM Water

- ☐ Qual. (pres/abs)_____ (QTY)
☐ ELAP 198.2/EPA 100-2_____ (QTY)
☐ EPA 100.1_____ (QTY)

☒ All samples received in good condition unless otherwise noted.
(TEM Water samples _____ °C)

Lead Analysis

- ☐ Paint Chip _____ (QTY)
☐ Dust Wipe (wipe type _____) _____ (QTY)
☐ Air _____ (QTY)
☐ Soil/Solid _____ (QTY)
☐ TCLP _____ (QTY)
☐ Drinking Water _____ (QTY)
☐ Waste Water _____ (QTY)
☐ Dust Wipe Furnace (wipe type _____) _____ (QTY)

Mold - Direct Microscopic Analysis

- ☐ Collection Apparatus for Spore Traps: _____
☐ Spore-Trap _____ (QTY) ☐ Bulk _____ (QTY)
☐ Surface Swab _____ (QTY) ☐ Surface Vacuum Dust _____ (QTY)
☐ Surface Tape _____ (QTY) ☐ Other (Specify _____) _____ (QTY)

CLIENT CONTACT

[illegible]

**LABORATORY
STAFF ONLY:
(CUSTODY)**

1. Date/Time RC'VD: 11/04/08 @ 0855 Via: FedEx By (Print): Chris Nicodemus Sign: Chris Nicodemus
2. Date/Time Analyzed: 11/4/08 @ _____ By (Print): Surat Watson Sign: Surat Watson
3. Results Reported To: Brian Stockwell Via: Email Date: 11/4/08 Time: _____ Initials: SW
4. Comments: _____

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs- P61AM-BOT(2)-50-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/20/2009 Weather Overcast Temperature 55

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop	X	Trowel	
	Pump		Bacon Bomb		Bowl	X	Hand Auger	
	Micro-purge				Push Probe		Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 0430 hrs Sample Type: Composite - (MI) Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken: 30 Estimated - Measured - Surveyed
Sample Depth: 0-6" FT (below surface) Decon: (Dedicated) - Each Day - Each Location

Field Parameters (at time of sample)		Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm		VOC		TPH GRO		Corrosivity			
		SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
		Explosives		Chromium +6		Ignitability			
Sample: ppm		Propellants		Nitrate					
Water Level: FT		TAL Metals		Sulfate		QA Samples			
Temperature: °C		Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs		Cyanides		pH		Duplicate ID	Yes / No	NA	
pH: units		TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity: N.T.U.		Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA	

Sample Description	Split Sample
Color <u>DK Brown</u> Odor <u>None</u> Staining <u>None</u> Texture <u>massive</u> Sorting <u>Poor</u> Plasticity <u>Low</u> Moisture <u>wet</u> <u>Sandy silt & clay</u>	Split Sample ID: _____ Name: _____ Agency/Company: _____ Address: _____ _____ _____ _____ QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed _____ _____

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Logged By: ST (Please Print)
Signature: [Signature]

Reviewed by: Sue Boles (Please Print)
Signature: [Signature] Date: 4/21/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGes- P61Am-BoT(W).50-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/20/2009 Weather Overcast Temperature 55

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 0950 hrs Sample Type: Composite - MI Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location
 IF MI, # of increments taken: 30 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings:	VOC		TPH GRO		Corrosivity		
Background: ppm	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample: ppm	Propellants		Nitrate				
Water Level: FT	TAL Metals		Sulfate		QA Samples		
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA
pH: units	TOC		RDX		Equipment Rinse ID	Yes / No	NA
Turbidity: N.T.U.	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA

Sample Description

Color DK Brown Odor NONE

Staining NONE Texture massive

Sorting poor Plasticity Low

Moisture wet

Sandy silt & clay

Soil sample description should include:
 Minnell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Reviewed by: Eric Boles (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 4/21/09



AT Labs a unit of **assay technology**

Laboratory Report
(Polarized Light Microscopy)

*The Innovation & Value Leader
in Occupational Hygiene Analysis*

Client # 22827

Customer: DIAMOND ENVIRONMENTAL LLC

Attention: KEITH R BICKEL

Address: 3624 ST RT 303

City, State: RAVENNA, OH 44266

Country:

Batch Number: 2009040584

Date Sampled: April 20, 2009

Date Received: April 20, 2009

Date Reported: April 21, 2009

Analyzed By: Keith Bickle

Reviewed By: Kathy Taylor

The results relate only to the items tested. Unless noted, samples were received in acceptable condition. Negative Results for non-friable organically bound materials (such as floor tiles and roofing materials) are not definitive due to limitations in the method and alternate techniques (such as TEM) may be considered.
ND = None Detected or <0.25%.

Lab ID #	Client ID	Description / Color	Asbestos Fibers							Other Fibers			Nonfibrous Material
			Chrysotile	Amosite	Crocidolite	Actinolite	Tremolite	Anthophyllite	Cellulose	Glass Fibers	Synthetic	Other	
2009013289	WBGCS-P6IAM BOT (E) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013291	WBGCS-P6IAM BOT (W) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013292	WBG-P6IM BERM- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	2%	ND	ND	ND	98%
2009013293	WBG-P6IM SDW- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013295	WBG-P6IM SDW- DUP-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013296	WBG-P6IM BOT SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013297	WBG-P70M-SFC-SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%

Analytical Method: PLM per EPA 600/4-92-020.

1 of 1

Accredited by The American Industrial Hygiene Association. Lab #100903

AIHA Accredited Lab #101728
AIHA Accredited Lab #100903

1252 Quarry Lane • Pleasanton, CA 94566 • (800) 833-1258 • FAX: (925) 461-7149
250 DeBartolo Place, # 2525 • Boardman, OH 44512 • (800) 365-3396 • FAX: (330) 758-1245

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1 330 758 1245 P. 01/02

QT LABS

APR-21-2009 15:49



250 DeBarleok Place
Suite 2525
Boardman, OH 44512
(Tel) (800) 341-3396
Fax (330) 758-1245

LAB REQUEST FORM

(chain of custody for air samples)

SERVICE LEVEL SURCHARGES AUTHORIZED

Initials	6-DAY...0%	Initials	3-DAY...50%
		Initials	1-DAY...100%
"6-DAY," "3-DAY," "1-DAY" service levels mean "Report available at 5PM on the 12th, 8th, or 3rd day following receipt of sample."		Other Special Request	

SEND LAB REPORT TO:

Send Phone No. **330-422-0799** Client Fax No. **330-422-0798**

NAME: **KRYSTIN R. BUCKLE** (Contact No. 11827)
DIAMOND ENVIRONMENTAL, LLC
3624 STATE ST
DAYTON, OH 45426

City, State, Zip

Project

OPTIONAL - Complete if different from "Send Lab Report to"

Name/Title: **Owner**
Company/Organization: **Sharon Steel**
Address: **8451 State St. Rm. 5**
City, State, Zip: **Dayton, OH 45426**

Universal Client No. **22827-08**
Billing Control No.
Purchase Order No.
Project No. (Optional)
Quote No. (Optional)

LAB ID NO. (5-Character Code)	SAMPLE IDENTIFICATION (30 CHARACTERS)	MEDIA CODE (SEE BELOW)	DATE SAMPLED	FLOW RATE (LPM)	TIME (MIN)	VOLUME (L)	ANALYTES REQUESTED	TEST CODES
2009-013289	WBGS-PGM-Bot(6)SO-002	S	4/20/09		0930		Asbestos PM	
2009-013291	WBGS-PGM-Bot(w)-SO-002	S			0950			
2009-013292	WBGS-PGM-Berm-SO-002	S			1010			
2009-013293	WBGS-PGM-SDW-SO-002	S			1100			
2009-013295	WBGS-PGM-SDW-Dup-002	S			1100			
2009-013296	WBGS-PGM-BOT-SO-002	S			1130			
2009-013297	WBGS-PGM-SFC-SO-002	S			1230			

Samples By: **X Sharon Steel** Date: **4/20/09** Requisitioned By: **X Sharon Steel** Date: **4/20/09** Received For Laboratory By: **X Sharon Steel** Date: **4/20/09** Time: **PM**

All samples acceptable: ☐ YES ☐ NO If "NO", Explain Here: _____

T = TUBE C = CASSETTE W = WIPE
T&C = PUF or Versatile Sampler
Other-Describe: _____

Item No. & Date from Media Label or No. Printed on Back of Badge

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-CS-P61m-SDW-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/17/08

Weather: Cloudy

Temperature: 34°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl <input checked="" type="checkbox"/> Hand Auger
	Micro-purge		Push Probe Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well-Purging Form Yes - No		

Sample Collection: 1230 hrs

Sample Type: Composite - MI Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3" FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings:	VOC		TPH GRO		Corrosivity			
Background: ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate					
Water Level FT	TAL Metals		Sulfate		QA Samples			
Temperature °C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / <u>No</u>	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	<u>Yes</u> / No	NA	
pH uMHOs	TOC		RDX		Equipment Rinse ID	Yes / <u>No</u>	NA	
Turbidity N.T.U.	Grain Size				Trip Blank ID	Yes / <u>No</u>	NA	

Sample Description

DK Brown, poorly sorted, moist
low plasticity, no odor, no staining
massive silty clay & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sully Bales (Please Print)

Signature: Sully Bales

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 11/20/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGCS - P61M - BOT - 50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/17/08

Weather: Cloudy

Temperature: 34°

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge			
Method	Bailer		Sample Bottle		Scoop	X	Trowel	
	Pump		Bacon Bomb		Bowl	Y	Hand Auger	
	Micro-purge				Push Probe		Plastic Liner	
Type/Construction					Mattocks			
Miscellaneous	Well Purging Form Yes - No							

Sample Collection: 1245 hrs

Sample Type: Composite MI - Grab

Location: Plotted on Map - Staked in Field

If MI, # of increments taken: 30

Estimated - Measured - Surveyed

Sample Depth: 0-3" FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants		Nitrate					
Water Level	FT	TAL Metals		Sulfate		QA Samples		
Temperature	°C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA
Sp. Conductance:	µMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA
pH	units	TOC		RDX		Equipment Rinse ID	Yes / No	NA
Turbidity	N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA

Sample Description

Dr. Brown, moist, massive
poorly sorted, low plasticity
NO odor, NO staining
silt & clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Reviewed by: ST (Please Print)

Signature: Sue Boles

Signature: [Signature] Date: 4/10/09

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504117
Date Analyzed: 11/19/2008
Person Submitting: Sue Boles

Attention: Brian Stockwell

Page 1 of 2

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0910355	WBGCS-P70M-SFC-SO	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	
0910356	WBGCS-P61M-SDW-SO	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	
0910357	WBGCS-P61M-SDW-DUP	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	
0910358	WBGCS-P61M-BOT-SO	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#100470), NVLAP (101143-0), and NY ELAP (#10920) Accredited Laboratory

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AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504117
Date Analyzed: 11/19/2008
Person Submitting: Sue Boles

Attention: Brian Stockwell

Page 2 of 2

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
----------------------	--------------------	-------------------	-----------------------	--------------------	------------------------	------------------------------	----------------------------	-----------------------	--------------------	----------------------	------------------	------------------------	-----------------	---------------	----------

Based on this type of heterogeneous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.


Peerawat Chaikeneee

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

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Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGes- P61M-SDW-SO-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/20/2009 Weather Overcast Temperature 55

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1100 hrs Sample Type: Composite - (MI) Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: (Dedicated) - Each Day - Each Location IF MI, # of increments taken: 30
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings:	VOC		TPH GRO		Corrosivity			
Background: ppm	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate					
Water Level FT	TAL Metals		Sulfate		QA Samples			
Temperature °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	<u>(Yes)</u> No	NA	
pH units	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity N.T.U.	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA	

Sample Description

Color DK Brown Odor None

Staining None Texture massive

Sorting poor Plasticity low

Moisture wet Silty sand & clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 4/21/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs-PGIM-Bot-10-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/20/2009 Weather Overcast Temperature 55

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge		
Method	Bailer		Sample Bottle		Scoop	X	Trowel
	Pump		Bacon Bomb		Bowl	X	Hand Auger
	Micro-purge				Push Probe		Plastic Liner
Type/Construction					Mattocks		
Miscellaneous	Well Purging Form Yes - No						

Sample Collection: 430 hrs Sample Type: Composite - MI Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location
 If MI, # of increments taken: 30 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity		
	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample: ppm	Propellants		Nitrate				
Water Level: FT	TAL Metals		Sulfate		QA Samples		
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA
pH: units	TOC		RDX		Equipment Rinse ID	Yes / No	NA
Turbidity: N.T.U.	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA

Sample Description	Split Sample
Color <u>DK Brown</u> Odor <u>None</u> Staining <u>None</u> Texture <u>Massive</u> Sorting <u>Good</u> Plasticity <u>Low</u> Moisture <u>wet</u> <u>Silty clay & sand</u>	Split Sample ID: _____ Name: _____ Agency/Company: _____ Address: _____ _____ _____ _____ QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed _____ _____ _____
Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	

Logged By: ST (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 4/21/09



AT Labs a unit of **assay technology**

Laboratory Report
(Polarized Light Microscopy)

*The Innovation & Value Leader
in Occupational Hygiene Analysis*

Client # 22827

Customer: DIAMOND ENVIRONMENTAL LLC

Attention: KEITH R BICKEL

Address: 3624 ST RT 303

City, State: RAVENNA, OH 44266

Country:

Batch Number: 2009040584

Date Sampled: April 20, 2009

Date Received: April 20, 2009

Date Reported: April 21, 2009

Analyzed By: Keith Bickle

Reviewed By: Kathy Taylor

The results relate only to the items tested. Unless noted, samples were received in acceptable condition. Negative Results for non-friable organically bound materials (such as floor tiles and roofing materials) are not definitive due to limitations in the method and alternate techniques (such as TEM) may be considered.
ND = None Detected or <0.25%.

Lab ID #	Client ID.	Description / Color	Asbestos Fibers							Other Fibers			Nonfibrous Material
			Chrysotile	Amosite	Crocidolite	Actinolite	Tremolite	Anthophyllite	Cellulose	Glass Fibers	Synthetic	Other	
2009013289	WBGCS-PEIAM BOT (E) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013291	WBGCS-PEIAM BOT (W) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013292	WBG-P6IM BERM- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	2%	ND	ND	ND	98%
2009013293	WBG-P6IM EDWA- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013295	WBG-P6IM SOW- DUP-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013296	WBG-P6IM BCT SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013297	WBG-P70M-SFC-SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%

Analytical Method: PLM per EPA 600/M4-82-020.

1 of 1

Accredited by The American Industrial Hygiene Association. Lab #100903

AIHA Accredited Lab #101728

AIHA Accredited Lab #100903

1252 Quarry Lane • Pleasanton, CA 94566 • (800) 833-1258 • FAX: (925) 461-7149
250 DeBartolo Place, # 2525 • Boardman, OH 44512 • (800) 365-3396 • FAX: (330) 758-1245

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1 330 758 1245 P. 01/02

AT LABS

APR-21-2009 15:49



250 DeBarolo Place
Suite 2525
Boardman, OH 44512
(Tel) (800) 361-3396
Fax (330) 753-1245

LAB REQUEST FORM (chain of custody for air samples)

SERVICE LEVEL SURCHARGES AUTHORIZED	
Initials	Initials
6-DAY...0%	3-DAY...50%
"6-DAY," "3-DAY," "1-DAY" service levels mean "Report available at 5PM on the 12th, 6th, or 3rd day following receipt of sample."	
1-DAY...100%	
Other Special Request	
Universal Client No. 22827-DP	
Billing Control No.	
Purchase Order No.	
Project No. (Optional)	
Quote No. (Optional)	

SEND LAB REPORT TO:

Lab Phone No.
330-422-0799

Client Fax No.
330-422-0798

NAME: KEITH R. BUCKEL (Contact No. 12827)
DIAMOND ENVIRONMENTAL, LLC
3624 SYKE JUD
DAYTONA, OH 45426

City, State, Zip

Project: [Redacted]

OPTIONAL - Complete if different from "Send Lab Report to"

Name/Title: [Redacted]

Company/Organization: [Redacted]

Address: [Redacted]

City, State, Zip: [Redacted]

LAB ID NO. (5-Character ID)	SAMPLE IDENTIFICATION (30 CHARACTERS)	MEDIA CODE (SEE BELOW)	DATE SAMPLED	FLOW RATE (LPM)	TIME (MIN)	VOLUME (L)	ANALYTES REQUESTED	TEST CODES
2009-013289	WBGS-P61M-Bot(6)-50-002	S	4/20/09		0930		Asbestos PUF	
2009-013291	WBGS-P61M-Bot(6)-50-002	S			0950			
2009-013292	WBGS-P61M-Bot(6)-50-002	S			1010			
2009-013293	WBGS-P61M-SDW-50-002	S			1100			
2009-013295	WBGS-P61M-SDW-Dup 002	S			1100			
2009-013296	WBGS-P61M-Bot-50-002	S			1130			
2009-013297	WBGS-P70M-SFC-50-002	S			1230			

Sampled By x Keith R. Buckel	Date 4/20/09	Relinquished By x Shakeran Ramon	Date 4/20/09	Received For Laboratory By x [Signature]	Date 4/20/09	Time PM
All samples acceptable		MEDIA CODES (REGULAR)		MEDIA CODES (PREPAID)		
YES <input type="checkbox"/>	NO <input type="checkbox"/>	T = TUBE C = CASSETTE W = WIPE T&C = PUF or Versatile Sampler Other-Describe:		Item No. & Date from Media Label or No. Printed on Back of Badge		

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID WBGcs-P61m-Berm-SQ

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/24/08 Weather: Cloudy Temperature: 37°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1345 hrs Sample Type: Composite MI Grab 30 Location: Plotted on Map - Staked in Field
Sample Depth: 0-3' FT (below surface) If MI, # of increments taken: 30 Estimated - Measured - Surveyed
Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	TPH GRO		Corrosivity		
Background: <u>0.0</u> ppm	SVOC	TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives	Chromium +6		Ignitability		
Sample: <u>0.0</u> ppm	Propellants	Nitrate				
Water Level	TAL Metals	Sulfate		QA Samples		
Temperature	Pesticides/PCBs	Asbestos	X	MS/MSD	Yes / No	NA
Sp. Conductance:	Cyanides	pH		Duplicate ID	Yes / No	NA
pH	TOC	RDX		Equipment Rinse ID	Yes / No	NA
Turbidity	Grain Size			Trip Blank ID	Yes / No	NA

Sample Description

Dk Brown, moist, no odor
NO STAINS, poorly sorted, low
plasticity, massive silty clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
Name: _____
Agency/Company: _____
Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/20/09

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504135
Date Analyzed: 11/25/2008
Person Submitting: Sue Boles
Revision Number: 1 Revised Date: 4/15/2009

Attention: Brian Stockwell

Page 1 of 1

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0911973	WBGCS-P61M-BERM-50	<1%	TR	TR	-	-	TR	-	TR	-	-	100	Gray	PC	Asbestos Present

Based on this type of heterogenous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.

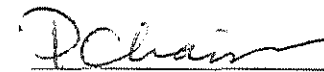
The following footnotes only apply to those samples which the total asbestos result is flagged with a notenumber.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.


Pecrawut Chaikenece

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA-air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#100470), NVLAP (101143-0), and NY ELAP (#10920) Accredited Laboratory

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(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

www.amalab.com

CHAIN OF CUSTODY

(Please Refer To Tr
Number For Inquire

504135

Mailing/Billing Information:

1. Client Name: Pika International Inc
2. Address 1: 8451 St Rt 5
3. Address 2: Rowena, OH 44266
4. Address 3: _____
5. Phone #: _____ Fax #: _____

Submittal Information:

1. Job Name: WDR RD/RA
2. Job Location: EVAP
3. Job #: 08-01-124 P.O. #:
4. Contact Person: Orlan Stockwell @ phone # 330-358-7135
5. Submitted by: Sue Roles Signature: Sue Roles

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)		NORMAL BUSINESS HOURS		REPORT TO:
<input type="checkbox"/> Immediate Date Due: _____	<input checked="" type="checkbox"/> Immediate	<input type="checkbox"/> 3 Day	<input type="checkbox"/> Results Required By Noon (Every Attempt Will Be Made To Accommodate)	<input type="checkbox"/> Include COC/Field Data Sheets with Report
<input type="checkbox"/> 24 Hours Time Due: _____	<input type="checkbox"/> Next Day	<input type="checkbox"/> 5 Day + Date Due: <u>11/25/08</u>		<input type="checkbox"/> Email: _____ @ _____
Comments: _____	<input type="checkbox"/> 2 Day			<input type="checkbox"/> Fax: _____
				<input type="checkbox"/> Verbal: _____

Asbestos Analysis

PCM Air – Please Indicate Filter Type:

- PC MCE Porosity _____ in a 25mm 37mm
☐ NIOSH 7400 _____ (QTY)
☐ Fiberglass _____ (QTY)
TEM Air - Please Indicate Filter Type:
 PC MCE Porosity _____ in a 25mm 37mm
☐ AHRA _____ (QTY)
☐ NIOSH 7402 _____ (QTY)
☐ Other (specify _____) (QTY)

TEM Air – Please Indicate Filter Type:

- PC MCE Porosity _____ in a 25mm 37mm
☐ AHRA _____ (QTY)
☐ NIOSH 7402 _____ (QTY)
☐ Other (specify) _____ (QTY)
- ELM Bulk
☒ EPA 600 - Visual Estimate _____ (QTY)
☐ EPA Point Count _____ (QTY)
☐ NY State Friable 198.1 _____ (QTY)
☐ Grav. Reduction ELAP 198.6 _____ (QTY)
☐ Other (specify) _____ (QTY)

PLMBulk

- ☒ EPA 600 ~ Visual Estimate _____ (QTY)
☐ EPA Point Count _____ (QTY)
☐ NY State Friable 198.1 _____ (QTY)
☐ Grav. Reduction ELAP 198.6 _____ (QTY)
☐ Other (specify) _____ (QTY)

TEM Bulk

- ☐ ELAP 198.4/Charfield _____ (QTY)
☐ NY State PLM/TEM _____ (QTY)
☐ Residual Ash _____ (QTY)

TEM Dusi

- ☐ Qual. (pres/abs) Vacuum/Dust _____ (QTY)
☐ Quan. (s/area) Vacuum D5755-95 _____ (QTY)
☐ Quan. (s/area) Dust D6480-99 _____ (QTY)

TEM Water

- ☐ Qual. (pres/abs)_____ (QTY)
☐ ELAP 198.2/EPA 100.2_____ (QTY)
☐ EPA 100.1_____ (QTY)

✓ All samples received in good condition unless otherwise noted.
(TEM Water samples _____ °C)

Lead Analysis

- ☐ Paint Chip _____ (QTY)
☐ Dust Wipe (wipe type _____) _____ (QTY)
☐ Air _____ (QTY)
☐ Soil/Solid _____ (QTY)
☐ TCLP _____ (QTY)
☐ Drinking Water _____ (QTY)
☐ Waste Water _____ (QTY)
☐ Dust Wipe Furnace (wipe type _____) _____ (QTY)

Mold - Direct Microscopic Analysis

- ☐ Collection Apparatus for Spore Traps: _____
☐ Spore-Trap _____ (QTY) ☐ Bulk _____ (QTY)
☐ Surface Swab _____ (QTY) ☐ Surface Vacuum Dust _____ (QTY)
☐ Surface Tape _____ (QTY) ☐ Other (Specify _____) _____ (QTY)

CLIENT CONTACT

[illegible]

LABORATORY
STAFF ONLY:
(CUSTODY)

1. Date/Time RCVD: 11/25/08 6:15 Via: FedEx By (Print): Chris Nickerson Sign: Chris Nickerson
2. Date/Time Analyzed: 11/25/08 @ _____ By (Print): Peewee Chik Keens Sign: P Chik
3. Results Reported To: Brian Stockwell Via: _____ Date: 11/25/08 Time: _____ Initials: PC
4. Comments: _____

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID WBGcs-P61m-Berm2-SO

Plant

Date: 12/2/08

Weather Cloudy + Snow

Temperature 25°

Ravenna Army Ammunition
Ravenna Ohio

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	X Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1320 hrs

Sample Type: Composite - (MI) Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: <u>1.0</u> ppm	VOC		TPH GRO		Corrosivity	
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives		Chromium +6		Ignitability	
Sample: <u>00</u> ppm	Propellants		Nitrate			
Water Level <u> </u> FT	TAL Metals		Sulfate		QA Samples	
Temperature <u> </u> °C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No NA
Sp. Conductance: <u> </u> uMHOs	Cyanides		pH		Duplicate ID	Yes / No NA
pH <u> </u> units	TOC		RDX		Equipment Rinse ID	Yes / No NA
Turbidity <u> </u> N.T.U.	Grain Size				Trip Blank ID	Yes / No NA

Sample Description

DK Brown, no odor, no stain
massive, poorly sorted, low plasticity
moist silty clay & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Jue Boles (Please Print)

Signature: Jue Boles

Reviewed by: ST (Please Print)

Signature: ST

Date: 4/20/09

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International Job Name: WBG RD/RA Chain Of Custody: 504162
Address: 8451 State Route 5 Job Location: RVAAP Date Analyzed: 12/3/2008
Ravenna, Ohio 44266 Job Number: 08-01-124 Person Submitting: Sue Boles
P.O. Number: Not Provided Revision Number: 1 Revised Date: 4/15/2009
Attention: Brian Stockwell

Page 1 of 1

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
-------------------	-----------------	----------------	--------------------	-----------------	---------------------	------------------------	----------------------	--------------------	-----------------	-------------------	---------------	---------------------	--------------	------------	----------

0913246	WBGCS-P6-1N-Berm2-50	<1%	-	-	-	-	-	-	TR	-	-	100	Gray	PC	
---------	----------------------	-----	---	---	---	---	---	---	----	---	---	-----	------	----	--

Based on this type of heterogeneous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.

The following footnotes only apply to those samples which the total asbestos result is flagged with a notenumber.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.

P. Chain
Peerawat Chaikenee

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

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CHAIN OF CUSTODY

(Please Refer To This
Number For Inquires)

504162

Mailing/Billing Information:

1. Client Name: PIKA International Inc
2. Address 1: 8551 Stet's
3. Address 2: Pavenna Oh 44266
4. Address 3: _____
5. Phone #: _____ Fax #: _____

Submittal Information:

1. Job Name: WBG- PD/RA
2. Job Location: PVAP
3. Job #: 08-01-124 P.O. #:
4. Contact Person: Brian Stockwell @ phone # 330-358-7135
5. Submitted by: Sue Boles Signature: Sue Boles

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)		NORMAL BUSINESS HOURS		REPORT TO:
<input type="checkbox"/> Immediate Date Due: _____	<input checked="" type="checkbox"/> Immediate	<input type="checkbox"/> 3 Day	<input type="checkbox"/> Results Required By Noon (Every Attempt Will Be Made to Accomodate)	<input type="checkbox"/> Include COC/Field Data Sheets with Report
<input type="checkbox"/> 24 Hours Time Due: _____	<input type="checkbox"/> Next Day	<input type="checkbox"/> 5 Day		<input type="checkbox"/> Email: _____ @ _____
Comments: _____	<input type="checkbox"/> 2 Day	Date Due: <u>2/03/08</u>		<input type="checkbox"/> Fax: _____
				<input type="checkbox"/> Verbal: _____

Asbestos Analysis

PCM Air - Please Indicate Filter Type:

- PC MCE Porosity_____in a 25mm 37mm
☐ NIOSH 7400_____ (QTY)
☐ Fiberglass_____ (QTY)

TEM Air - Please Indicate Filter Type:

- PC MCE Porosity _____ in a 25mm 37mm
☐ AHERA _____ (QTY)
☐ NIOSH 7402 _____ (QTY)
☐ Other (specify _____) _____ (QTY)

PLM Bulk

- ☒ EPA 600 - Visual Estimate _____ (QTY)
☐ EPA Point Count _____ (QTY)
☐ NY State Friable 198.1 _____ (QTY)
☐ Grav. Reduction ELAP 198.6 _____ (QTY)
☐ Other (specify) _____ (QTY)

TEM Bulk

- ☐ ELAP 198.4/Chatfield _____ (QTY)
☐ NY State PLM/TEM _____ (QTY)
☐ Residual Ash _____ (QTY)

TEM Dust

- ☐ Qual. (pres/abs) Vacuum/Dust _____ (QTY)
☐ Quan. (s/area) Vacuum D5755-95 _____ (QTY)
☐ Quan. (s/area) Dust D6480-99 _____ (QTY)

TEM Water

- ☐ Qual. (pres/abs)_____ (QTY)
☐ ELAP 198.2/EPA 100.2_____ (QTY)
☐ EPA 100.1_____ (QTY)

☐ All samples received in good condition unless otherwise noted.
(TEM Water samples _____°C)

Lead Analysis

- ☐ Paint Chip _____ (QTY)
☐ Dust Wipe (wipe type _____) _____ (QTY)
☐ Air _____ (QTY)
☐ Soil/Solid _____ (QTY)
☐ TCLP _____ (QTY)
☐ Drinking Water _____ (QTY)
☐ Waste Water _____ (QTY)
☐ Dust Wipe Furnace (wipe type _____) _____ (QTY)

Mold - Direct Microscopic Analysis

- ☐ Collection Apparatus for Spore Traps: _____
☐ Spore-Trap _____ (QTY) ☐ Bulk _____ (QTY)
☐ Surface Swab _____ (QTY) ☐ Surface Vacuum Dust _____ (QTY)
☐ Surface Tape _____ (QTY) ☐ Other (Specify _____) _____ (QTY)

SAMPLE INFORMATION

[illegible]

**LABORATORY
STAFF ONLY:
(CUSTODY)**

1. Date/Time RCVD: 12/03/08 Via: E-MAIL By (Print): Chris Nicodemus Sign: Chris Nicod
2. Date/Time Analyzed: 12/3/08 @ _____ By (Print): Reynold Chaikens Sign: P Chan
3. Results Reported To: Brian Stockwell Via: E-MAIL Date: 12/3/08 Time: _____ Initials: PC
4. Comments: _____

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs- P61-M-BERM-SO-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/20/2009 Weather Overcast Temperature 55

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop	X	Trowel
	Pump	Bacon Bomb	Bowl	X	Hand Auger
	Micro-purge		Push Probe		Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1010 hrs Sample Type: Composite - MI Grab 30 Location: Plotted on Map - Skated in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	TPH GRO	Corrosivity			
	SVOC (PAHs)	TPH DRO	Reactivity Sulfide/Cyanide			
	Explosives	Chromium +6	Ignitability			
Sample: ppm	Propellants	Nitrate				
Water Level: FT	TAL Metals	Sulfate	QA Samples			
Temperature: °C	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides	pH	Duplicate ID	Yes / No	NA	
pH: units	TOC	RDX	Equipment Rinse ID	Yes / No	NA	
Turbidity: N.T.U.	Grain Size	Asbestos X	Trip Blank ID	Yes / No	NA	

Sample Description	Split Sample
Color <u>DK Brown</u> Odor <u>none</u>	Split Sample ID: _____
Staining <u>none</u> Texture <u>massive</u>	Name: _____
Sorting <u>poor</u> Plasticity <u>low</u>	Agency/Company: _____
Moisture <u>wet</u> <u>silt, sand & clay</u>	Address: _____
Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture	QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Water sample description should include: Color Odor Sheen Turbidity	Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 4/21/09



AT Labs a unit of **assay technology**

Laboratory Report
(Polarized Light Microscopy)

*The Innovation & Value Leader
in Occupational Hygiene Analysis*

Client # 22827

Customer: DIAMOND ENVIRONMENTAL LLC

Attention: KEITH R BICKEL

Address: 3624 ST RT 303

Batch Number: 2009040584

Date Sampled: April 20, 2009

Date Received: April 20, 2009

Date Reported: April 21, 2009

Analyzed By: Keith Bickle

Reviewed By: Kathy Taylor

City, State: RAVENNA, OH 44266

Country:

The results relate only to the items tested. Unless noted, samples were received in acceptable condition. Negative Results for non-friable organically bound materials (such as floor tiles and roofing materials) are not definitive due to limitations in the method and alternate techniques (such as TEM) may be considered.
ND = None Detected or <0.25%.

Lab ID #	Client ID.	Description / Color	Asbestos Fibers							Other Fibers			Nonfibrous Material
			Chrysotile	Amosite	Crocidolite	Actinolite	Tremolite	Anthophyllite	Cellulose	Glass Fibers	Synthetic	Other	
2009013289	WBG-S-P61AM BOT (E) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013291	WBG-S-P61AM BOT (W) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013292	WBG-P61M BERM- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	2%	ND	ND	ND	98%
2009013293	WBG-P61M SDW- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013295	WBG-P61M SUVA- DUP-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013296	WBG-P61M BOT SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013297	WBG-P70M-SFC-SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%

Analytical Method: PLM per EPA 600/4-82-020.

1 of 1

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AIHA Accredited Lab #101728

AIHA Accredited Lab #100903

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250 DeBartolo Place, # 2525 • Boardman, OH 44512 • (800) 365-3396 • FAX: (330) 758-1245

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1 330 758 1245

AT LABS

APR-21-2009 15:49



250 DeBarick Place
Suite 2525
Boardman, OH 44612
(Tel) (330) 345-3396
Fax (330) 758-1245

LAB REQUEST FORM

(chain of custody for air samples)

SERVICE LEVEL SURCHARGES AUTHORIZED

Initials	6-DAY...0%	Initials	3-DAY...50%
"6-DAY," "3-DAY," "1-DAY" service levels mean "Report available at 5PM on the 12th, 8th, or 3rd day following receipt of sample."		Initials	
		1-DAY...100%	
		Other Special Request	

SEND LAB REPORT TO:

Send Phone No. **330-422-0799** Client Fax No. **330-422-0798**

KEITH R. BUCKEL (Contact No. 22827)
DIAMOND ENVIRONMENTAL, LLC
3624 SYKE RD

DAYTON, OH 45426

City, State, Zip

Project **PROJECT**

OPTIONAL - Complete if different from "Send Lab Report to"

Name/Title

Owner Steve Webb

Company/Organization

Steve Webb & Associates, Inc.

Address

8451 St. Rt. 5

City, State, Zip

Dayton, OH 45426

Universal Client No.

22827-DP

Billing Control No.

Purchase Order No.

Project No. (Optional)

Quote No. (Optional)

LAB ID NO. (SAMPLE ID ONLY)	SAMPLE IDENTIFICATION (30 CHARACTERS)	MEDIA CODE (SEE BELOW)	DATE SAMPLED	FLOW RATE (LPM)	TIME (MIN)	VOLUME (L)	ANALYTES REQUESTED	TEST CODES
2009-013289	WBGS-PGM-BOT(6)-SO-002	S	4/20/09		0430		Asbestos PUF	
2009-013291	WBGS-PGM-BOT(6)-SO-002	S			0950			
2009-013292	WBGS-PGM-BOT-SD-002	S			1010			
2009-013293	WBGS-PGM-SDW-SD-002	S			1100			
2009-013295	WBGS-PGM-SDW-DUP-002	S			1100			
2009-013296	WBGS-PGM-BOT-SD-002	S			1130			
2009-013297	WBGS-PGM-SFC-SD-002	S			1230			

Sampled By X Keith R. Buckel	Date 4/20/09	Relinquished By X Shabazz Rahman	Date 4/20/09	Received For Laboratory By X Shabazz Rahman	Date 4/20/09
All samples acceptable		MEDIA CODES (REGULAR)		MEDIA CODES (PREPAID)	
YES <input type="checkbox"/>	NO <input type="checkbox"/>	T = TUBE C = CASSETTE W = WIPE T&C = PUF or Versatile Sampler Other-Describe:		Item No. & Date from Media Label or No. Printed on Back of Badge	

LAB

SN 3-00

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winkjepeck Burning Grounds RD/RA

Location ID: WB6CS - P70M - SEC - 50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 11/17/08

Weather: Sunny / Partly Cloudy

Temperature: 34°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
	Micro-purge		Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 12/0 hrs

Sample Type: Composite - 11 - Grab

If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 12.3 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	TPH GRO	Corrosivity			
Background: <u>0.0</u> ppm	SVOC	TPH DRO	Reactivity Sulfide/Cyanide			
	Explosives	Chromium +6	Ignitability			
Sample: <u>0.0</u> ppm	Propellants	Nitrate				
Water Level	TAL Metals	Sulfate	QA Samples			
Temperature	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No	NA	
Sp. Conductance:	Cyanides	pH	Duplicate ID	Yes / No	NA	
pH	TOC	RDX	Equipment Rinse ID	Yes / No	NA	
Turbidity	Grain Size		Trip Blank ID	Yes / No	NA	

Sample Description

DK Brown, no odor, no stains
Low plasticity, poorly sorted
massive, moist, silty clay & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD / Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/20/09

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504117
Date Analyzed: 11/19/2008
Person Submitting: Sue Boles

Attention: Brian Stockwell

Page 1 of 2

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0910355	WBGCS-P70M-SFC-SO	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	
0910356	WBGCS-P61M-SDW-SO	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	
0910357	WBGCS-P61M-SDW-DUP	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	
0910358	WBGCS-P61M-BOT-SO	<1%	--	--	--	--	--	--	TR	--	--	100	Beige	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#100470), NVLAP (101143-0), and NY ELAP (#10920) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD, 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



CERTIFICATE OF ANALYSIS

Client:	PIKA International	Job Name:	WBG RD/RA	Chain Of Custody:	504117
Address:	8451 State Route 5	Job Location:	RVAAP	Date Analyzed:	11/19/2008
	Ravenna, Ohio 44266	Job Number:	08-01-124	Person Submitting:	Sue Boles
		P.O. Number:	Not Provided		

Attention: Brian Stockwell

Page 2 of 2

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
-------------------	-----------------	----------------	--------------------	-----------------	---------------------	------------------------	----------------------	--------------------	-----------------	-------------------	---------------	---------------------	--------------	------------	----------

Based on this type of heterogeneous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.

D. Chain
Peerawut Chaiceenee

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

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504117

**AMA Analytical Services, Inc.**

Focused on Results

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 (301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643
 www.amalab.com

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires)

Mailing/Billing Information:

1. Client Name: PIKA International Inc
 2. Address 1: 8451 ST RT 5
 3. Address 2: Ravenna OH 44206
 4. Address 3: _____
 5. Phone #: _____ Fax #: _____

Submittal Information:

1. Job Name: WBG RD/RA
 2. Job Location: RVAMP
 3. Job #: 08-01-124 P.O. #: _____
 4. Contact Person: Brian Stockwell @ phone # 330-358-7135
 5. Submitted by: Sue Boles Signature: Sue Boles

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled) <input type="checkbox"/> Immediate Date Due: _____ <input type="checkbox"/> 24 Hours Time Due: _____ Comments: _____		NORMAL BUSINESS HOURS <input type="checkbox"/> Immediate <input checked="" type="checkbox"/> Next Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day + Date Due: <u>11/19/08</u>		REPORT TO: <input checked="" type="checkbox"/> Include COC/Field Data Sheets with Report <input checked="" type="checkbox"/> Email: <u>bstockwell@pika-inc.com</u> <input type="checkbox"/> Fax: _____ <input type="checkbox"/> Verbal: _____	
--	--	---	--	--	--

Asbestos Analysis

PCM Air - Please Indicate Filter Type:

PC MCE Porosity _____ in a 25mm 37mm
☐ NIOSH 7400 (QTY)
☐ Fiberglass (QTY)

TEM Air - Please Indicate Filter Type:

PC MCE Porosity _____ in a 25mm 37mm
☐ AHERA (QTY)
☐ NIOSH 7402 (QTY)
☐ Other (specify) _____ (QTY)

PLM Bulk

☒ EPA 600 - Visual Estimate 4 (QTY)
☐ EPA Point Count (QTY)
☐ NY State Friable 198.1 (QTY)
☐ Grav. Reduction ELAP 198.6 (QTY)
☐ Other (specify) _____ (QTY)

TEM Bulk

☐ ELAP 198.4/Chatfield (QTY)
☐ NY State PLM/TEM (QTY)
☐ Residual Ash (QTY)

TEM Dust

☐ Qual. (pres/abs) Vacuum/Dust (QTY)
☐ Quan. (s/area) Vacuum D5755-95 (QTY)
☐ Quan. (s/area) Dust D6480-99 (QTY)

TEM Water

☐ Qual. (pres/abs) (QTY)
☐ ELAP 198.2/EPA 100.2 (QTY)
☐ EPA 100.1 (QTY)

☒ All samples received in good condition unless otherwise noted.
 (TEM Water samples _____ °C)

Lead Analysis

☐ Paint Chip (QTY)
☐ Dust Wipe (wipe type _____) (QTY)
☐ Air (QTY)
☐ Soil/Solid (QTY)
☐ TCLP (QTY)
☐ Drinking Water (QTY)
☐ Waste Water (QTY)
☐ Dust Wipe Furnace (wipe type _____) (QTY)

Mold - Direct Microscopic Analysis

☐ Collection Apparatus for Spore Traps: _____
☐ Spore-Trap (QTY) ☐ Bulk (QTY)
☐ Surface Swab (QTY) ☐ Surface Vacuum Dust (QTY)
☐ Surface Tape (QTY) ☐ Other (Specify) _____ (QTY)

SAMPLE INFORMATION

CLIENT ID NUMBER	SAMPLE LOCATION/ IDENTIFICATION	DATE	VOLUME (LITERS)	WIPE AREA	ANALYSIS	MOLD	AIR	BULK	DUST	MATRIX	WATER AND OTHER	SPORE TRAP	TAPE	SWAB	CLIENT CONTACT (LABORATORY STAFF ONLY)
WBGes-P70m-SFC-50		11/17/08	802		TEM			X							Date/Time: _____ Contact: _____ By: _____
WBGes-P61m-SOW-50		11/17/08	802		PCM			X							
WBGes-P61m-SOW-Dup		11/17/08	802		PLM			X							
WBGes-P61m-BOT-50		11/17/08	802		LEAD			X							
															Date/Time: _____ Contact: _____ By: _____
															Date/Time: _____ Contact: _____ By: _____

LABORATORY STAFF ONLY: (CUSTODY)

1. Date/Time RCVD: 11/18/08 @ 0200 Via: fed ex By (Print): Chris Nicodemus Sign: Chris Nicodemus
 2. Date/Time Analyzed: 11/19/08 @ _____ By (Print): Borawut Chaikoon Sign: B. Chan
 3. Results Reported To: Brian Stockwell Via: E-Mail Date: 11/19/08 Time: _____ Initials: PC
 4. Comments: _____

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGcs- P70M-SFC-50-002

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/20/2009 Weather Overcast Temperature 55

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop	X	Trowel
	Pump	Bacon Bomb	Bowl	X	Hand Auger
	Micro-purge		Push Probe		Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 230 hrs Sample Type: Composite - (MI) Grab Location: Plotted on Map - Skipped in Field
If MI, # of increments taken: 30
Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings:	VOC		TPH GRO		Corrosivity		
Background:	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample:	Propellants		Nitrate				
Water Level	TAL Metals		Sulfate		QA Samples		
Temperature	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No	NA
Sp. Conductance:	Cyanides		pH		Duplicate ID	Yes / No	NA
pH	TOC		RDX		Equipment Rinse ID	Yes / No	NA
Turbidity	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA

Sample Description

Color DK. Brown Odor None

Staining None Texture massive

Sorting poor Plasticity Low

Moisture wet Silt, sand & clay

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Logged By: ST (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: _____

Signature: Sue Boles Date: 4/21/09



AT Labs a unit of **assay technology**

Laboratory Report
(Polarized Light Microscopy)

*The Innovation & Value Leader
in Occupational Hygiene Analysis*

Client # 22827

Customer: DIAMOND ENVIRONMENTAL LLC

Attention: KEITH R BICKEL

Address: 3624 ST RT 303

City, State: RAVENNA, OH 44266

Country:

Batch Number: 2009040584

Date Sampled: April 20, 2009

Date Received: April 20, 2009

Date Reported: April 21, 2009

Analyzed By: Keith Bickle

Reviewed By: Kathy Taylor

The results relate only to the items tested. Unless noted, samples were received in acceptable condition. Negative Results for non-friable organically bound materials (such as floor tiles and roofing materials) are not definitive due to limitations in the method and alternate techniques (such as TEM) may be considered.
ND = None Detected or <0.25%.

Lab ID #	Client ID.	Description / Color	Asbestos Fibers							Other Fibers			Nonfibrous Material
			Chrysotile	Amosite	Crocidolite	Actinolite	Tremolite	Anthophyllite	Cellulose	Glass Fibers	Synthetic	Other	
2009013289	WBGS-P6IAM BOT (E) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013291	WBGS-P6IAM BOT (W) SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013292	WBGS-P6IAM BERM- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	2%	ND	ND	ND	98%
2009013293	WBGS-P6IAM SDW- SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013295	WBGS-P6IAM SDW- DUP-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009013296	WBGS-P6IAM BOT SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	TR	ND	ND	ND	100%
2009013297	WBGS-P70M-SFC-SO-002	BROWN CLAY/SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%

Analytical Method: PLM per EPA 600/M4-82-020.

1 of 1

Accredited by The American Industrial Hygiene Association. Lab #100903

AIHA Accredited Lab #101728

AIHA Accredited Lab #100903

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250 DeBartolo Place, # 2525 • Boardman, OH 44512 • (800) 365-3396 • FAX: (330) 758-1245

www.assaytech.com



250 DeBarleok Place
Suite 2525
Boardman, OH 44512
(Tel) (800) 381-3396
Fax (330) 758-1245

LAB REQUEST FORM

(chain of custody for air samples)

SERVICE LEVEL SURCHARGES AUTHORIZED

Initials	6-DAY...0%	Initials	ST	3-DAY...50%
"6-DAY," "3-DAY," "1-DAY" service levels mean "Report available at 5PM on the 12th, 6th, or 3rd day following receipt of sample."		Initials	1-DAY...100%	
		Other: Special Request		

SEND LAB REPORT TO:

Send Phone No. **330-422-0799**
Client Fax No. **330-422-0798**

Project
OPTIONAL - Complete if different from "Send Lab Report to"

Universal Client No. **22827-DP**

KEITH E. BUCKEL (Contact No. 22827)
DIAMOND ENVIRONMENTAL, LTD.
3624 ST. N. JEN
DAYTON, OH 45426

Name/Title **Owner**
Company/Organization **Shahram**
Address **8151 St. N. JEN**
City, State, Zip **Dayton, OH 45426**

Billing Control No.
Purchase Order No.
Project No. (Optional)
Quote No. (Optional)

LAB ID NO. (Sample & Media)	SAMPLE IDENTIFICATION (30 CHARACTERS)	MEDIA CODE (SEE BELOW)	DATE SAMPLED	LOW RATE (LPM)	TIME (MIN)	VOLUME (L)	ANALYTES REQUESTED	TEST CODES
2009-013289	WBGS-P61M-Bot(6)50-002	S	4/20/09		0930		Asbestos PM	
2009-013291	WBGS-P61M-Bot(6)50-002	S			0950			
2009-013292	WBGS-P61M-Bot(6)50-002	S			1010			
2009-013293	WBGS-P61M-SDW-50-002	S			1100			
2009-013295	WBGS-P61M-SDW-Dup 002	S			1100			
2009-013296	WBGS-P61M-BOT-50-002	S			1130			
2009-013297	WBGS-P61M-SFC-50-002	S			1230			

Samples By **X Keith E. Buckel** Date **4/20/09** Relinquished By **X Shahram Rahimi** Date **4/20/09** Requested For Laboratory By **X Shahram Rahimi** Date **4/20/09**

All samples acceptable ☐ YES ☐ NO ☐ NO - Explain Here: _____

T = TUBE C = CASSETTE W = WIPE
T&C = PUF or Versatile Sampler
Other Describe: _____

Item No. & Date from Media Label or No. Printed on Back of Badge

P. 01/02

1 330 758 1245

QT LABS

APR-21-2009 15:49

50 328

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winkleneck Burning Grounds RD/RA

Location ID: WAG-55-SPFP-001-S0

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/12/09

Weather: Sunny

Temperature: 25°

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge		
Method	Bailer		Sample Bottle		Scoop	X	Trowel
	Pump		Bacon Bomb		Bowl		Hand Auger
	Micro-purge				Push Probe		Plastic Liner
Type/Construction					Mattocks		
Miscellaneous	Well Purging Form Yes - No						

Sample Collection: 1025 hrs

Sample Type: Composite - MI - Grab

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-8 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants		Nitrate					
Water Level: <u></u> FT	TAL Metals		Sulfate		QA Samples			
Temperature: <u></u> °C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA	
Sp. Conductance: <u></u> uMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA	
pH: <u></u> units	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity: <u></u> N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description

Brown, massive, some stains,
no odor, moist, poorly sorted
nonplastic, silt & clay with some
sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Reviewed by: ST (Please Print)

Signature: Sue Boles

Signature: [Signature] Date: 4/20/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGSS-SPFPM-002-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/12/09

Weather: Sunny

Temperature: 25°

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge	
Method	Bailer		Sample Bottle		Scoop	X
	Pump		Bacon Bomb		Bowl	
	Micro-purge				Push Probe	
Type/Construction					Mattocks	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1035 hrs

Sample Type: Composite - ML - Grab

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-103 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: <u>0.0</u> ppm	VOC		TPH GRO		Corrosivity			
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants		Nitrate		QA Samples			
Water Level: <u>FT</u>	TAL Metals		Sulfate					
Temperature: <u>°C</u>	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA	
Sp. Conductance: <u>uMHOs</u>	Cyanides		pH		Duplicate ID	Yes / No	NA	
pH: <u>units</u>	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity: <u>N.T.U.</u>	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description

NO odor, NO stains, poorly sorted
non-plastic, massive, moist
silty clay with some sand & gravel

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Eue Boles (Please Print)

Signature: Eue Boles

Reviewed by: [Signature] (Please Print)

Signature: [Signature] Date: 4/12/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGSS-SPFPM-003-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/12/09

Weather: Sunny

Temperature: 25°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1050 hrs

Sample Type: Composite MI - Grab

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-43 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings:	VOC		TPH GRO		Corrosivity		
Background: <u>0.0</u> ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample: <u>0.0</u> ppm	Propellants		Nitrate				
Water Level	TAL Metals		Sulfate		QA Samples		
Temperature	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA
Sp. Conductance:	Cyanides		pH		Duplicate ID	Yes / No	NA
pH	TOC		RDX		Equipment Rinse ID	Yes / No	NA
Turbidity	Grain Size				Trip Blank ID	Yes / No	NA

Sample Description

NO odors, NO staining, massive.
poorly sorted, non plastic
moist silty sand & clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: ST (Please Print)

Signature: [Signature] Date: 4/20/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: UBG-SS-SPFPM-004-50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/12/09

Weather: Sunny

Temperature: 25°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 110 hrs

Sample Type: Composite - MI Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-8" FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings:	VOC	TPH GRO	Corrosivity	
Background: <u>0.0</u> ppm	SVOC	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	Chromium +6	Ignitability	
Sample: <u>0.6</u> ppm	Propellants	Nitrate		
Water Level <u> </u> FT	TAL Metals	Sulfate	QA Samples	
Temperature <u> </u> °C	Pesticides/PCBs	Asbestos <u>X</u>	MS/MSD	Yes / No NA
Sp. Conductance: <u> </u> uMHOs	Cyanides	pH	Duplicate ID	Yes / No NA
pH <u> </u> units	TOC	RDX	Equipment Rinse-ID	Yes / No NA
Turbidity <u> </u> N.T.U.	Grain Size		Trip Blank ID	Yes / No NA

Sample Description

NO ODOOR, NO STAINS, massive
Poorly sorted, low plasticity
moist silty clay & sand

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Jue Boles (Please Print)

Signature: Jue Boles

Reviewed by: [Signature] (Please Print)

Signature: [Signature] Date: 6/22/09

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504403
Date Analyzed: 3/18/2009
Person Submitting: Sue Boles

Attention: Brian Stockwell

Page 1 of 1

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0929937	WBGSS-SPFPm-001-50	<1%	TR	TR	--	--	--	--	TR	--	--	100	Gray	PC	
0929938	WBGSS-SPFPm-002-50	<1%	TR	TR	--	--	--	--	TR	--	--	100	Gray	PC	
0929939	WBGSS-SPFP-003-50	<1%	--	TR	--	--	--	--	TR	--	--	100	Gray	PC	
0929940	WBGSS-SPFP-004-50	<1%	TR	TR	--	--	--	--	TR	--	--	100	Gray	PC	

Based on this type of heterogeneous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.

Peerawat Chaikenee

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#100470), NVLAP (101143-0), and NY ELAP (#10920) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD, 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643


AMA Analytical Services, Inc.

Focused on Results

AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)

4475 Forbes Blvd. • Lanham, MD 20706

(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

www.amalab.com

CHAIN OF CUSTODY

 (Please Refer To
Number For Inqu...

504403
Mailing/Billing Information:

- Client Name: PIKA INTERNATIONAL INC
- Address 1: 8451 ST. RT. 5
- Address 2: RAVENNA OHIO 44246
- Address 3: _____
- Phone #: _____ Fax #: _____

Submittal Information:

- Job Name: WBG RD/RA
- Job Location: RVAAP
- Job #: 08-01-124 P.O. #: _____
- Contact Person: Brian Stockwell @ phone # 330-358-7135
- Submitted by: Sue Boles Signature: [Signature]

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)		NORMAL BUSINESS HOURS		REPORT TO:
<input type="checkbox"/> Immediate	Date Due: _____	<input type="checkbox"/> Immediate	<input checked="" type="checkbox"/> 3 Day	<input type="checkbox"/> Include COC/Field Data Sheets with Report
<input type="checkbox"/> 24 Hours	Time Due: _____	<input type="checkbox"/> Next Day	<input type="checkbox"/> 5 Day +	<input type="checkbox"/> Email: <u>bstockwell@pikainc.com</u>
Comments: _____		<input type="checkbox"/> 2 Day	Date Due: <u>3/18/09</u>	<input type="checkbox"/> Fax: _____
		<input type="checkbox"/> Results Required By Noon (Every Attempt Will Be Made to Accommodate)		<input type="checkbox"/> Verbals: _____

Asbestos Analysis

PCM Air - Please Indicate Filter Type:

PC MCE Porosity _____ in a 25mm 37mm

☐ NIOSH 7400 (QTY)

☐ Fiberglass (QTY)

TEM Air - Please Indicate Filter Type:

PC MCE Porosity _____ in a 25mm 37mm

☐ AHERA (QTY)

☐ NIOSH 7402 (QTY)

☐ Other (specify _____) (QTY)

PLM Bulk
☒ EPA 600 - Visual Estimate 4 (QTY)

☐ EPA Point Count (QTY)

☐ NY State Friable 198.1 (QTY)

☐ Grav. Reduction ELAP 198.6 (QTY)

☐ Other (specify _____) (QTY)

TEM Bulk
☐ ELAP 198.4/Chatfield (QTY)

☐ NY State PLM/TEM (QTY)

☐ Residual Ash (QTY)

TEM Dust
☐ Qual. (pres/abs) Vacuum/Dust (QTY)

☐ Quan. (s/area) Vacuum D5755-95 (QTY)

☐ Quan. (s/area) Dust D6480-99 (QTY)

TEM Water
☐ Qual. (pres/abs) (QTY)

☐ ELAP 198.2/EPA 100.2 (QTY)

☐ EPA 100.1 (QTY)

☒ All samples received in good condition unless otherwise noted.
(TEM Water samples _____ °C)

Lead Analysis
☐ Paint Chip (QTY)

☐ Dust Wipe (wipe type _____) (QTY)

☐ Air (QTY)

☐ Soil/Solid (QTY)

☐ TCLP (QTY)

☐ Drinking Water (QTY)

☐ Waste Water (QTY)

☐ Dust Wipe Furnace (wipe type _____) (QTY)

Mold - Direct Microscopic Analysis
☐ Collection Apparatus for Spore Traps: _____

☐ Spore-Trap (QTY) ☐ Bulk (QTY)

☐ Surface Swab (QTY) ☐ Surface Vacuum Dust (QTY)

☐ Surface Tape (QTY) ☐ Other (Specify _____) (QTY)

CLIENT CONTACT

(LABORATORY STAFF ONLY)

CLIENT ID NUMBER	SAMPLE LOCATION/ IDENTIFICATION	DATE	VOLUME (LITERS)	WIPE AREA	TEM	PCM	PLM	LEAD	MOLD	AIR	BULK	DUST	WATER AND OTHER	STONE TRAP	TAPE	SWAB	LABORATORY STAFF ONLY
WBG-SPFP-001-SO	WINKLEDECK	3/12	802				X				X						Date/Time: _____ Contact: _____ By: _____
WBG-SPFP-002-SO	"	3/12	802				X				X						
WBG-SPFP-003-SO	"	3/12	802				X				X						
WBG-SPFP-004-SO	"	3/12	802				X				Y						
																	Date/Time: _____ Contact: _____ By: _____
																	Date/Time: _____ Contact: _____ By: _____

 LABORATORY
STAFF ONLY:
(CUSTODY)

- Date/Time RCVD: 3/12/09 600 Via Fed Ex By (Print): Chris Nikodenis Sign: [Signature]
- Date/Time Analyzed: 3/18/09 @ _____ By (Print): Peerasut Chaikenee Sign: [Signature]
- Results Reported To: Brian Stockwell Via: E-Mail Date: 3/18/09 Time: _____ Initials: PC
- Comments: _____

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WB655-SPFPA-001-2-50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/24/09

Weather: Partly Cloudy

Temperature: 50°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1120 hrs

Sample Type: Composite - (M) - Grab
If M, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	TPH GRO	Corrosivity			
Background: <u>0.0</u> ppm	SVOC	TPH DRO	Reactivity Sulfide/Cyanide			
	Explosives	Chromium +6	Ignitability			
Sample: <u>0.0</u> ppm	Propellants	Nitrate				
Water Level	TAL Metals	Sulfate	QA Samples			
Temperature	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No	NA	
Sp. Conductance	Cyanides	pH	Duplicate ID	Yes / No	NA	
pH	TOC	RDX	Equipment Rinse ID	Yes / No	NA	
Turbidity	Grain Size		Trip-Blank ID	Yes / No	NA	

Sample Description

1+ Brown, no odor, some staining
massive, poorly sorted, non plastic
dry pit-like clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: _____ (Please Print)

Signature: _____ Date: 6/20/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WB6-SS-SPFPM-002-2-50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/24/09

Weather: Partly Cloudy

Temperature: 50°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop	X	Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
	Micro-purge		Push Probe		Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1130 hrs

Sample Type: Composite - (MI) Grab
If MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3 FT (below surface)

Decont: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)

PID / FID Readings:

Background: 00 ppm

Sample: 00 ppm

Water Level

FT

Temperature

°C

Sp. Conductance:

uMHOs

pH

units

Turbidity

N.T.U.

Analytical Parameters

VOC

TPH GRO

SVOC

TPH DRO

Explosives

Chromium +6

Propellants

Nitrate

TAL Metals

Sulfate

Pesticides/PCBs

Asbestos

X

Cyanides

pH

TOC

RDX

Grain Size

Other Parameters

Corrosivity

Reactivity Sulfide/Cyanide

Ignitability

QA Samples

MS/MSD

Yes / No

NA

Duplicate ID

Yes / No

NA

Equipment-Rinse ID

Yes / No

NA

Trip Blank ID

Yes / No

NA

Sample Description

Light Brown, no odor, no stains
non plastic, poorly sorted
massive dry silt & sand & gravel

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Botes (Please Print)

Signature: Sue Botes

Reviewed by: _____ (Please Print)

Signature: _____

Date: 4/12/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winkleneck Burning Grounds RD/RA

Location ID: WBG-SS-SPEPm-003-2-50

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 3/24/09

Weather: Partly Cloudy

Temperature: 50°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
	Micro-purge		Push Probe Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1142 hrs

Sample Type: Composite - (MI) - Grab

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings:	VOC		TPH GRO		Corrosivity			
Background: <u>0.0</u> ppm	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: <u>0.0</u> ppm	Propellants		Nitrate					
Water Level <u> </u> FT	TAL Metals		Sulfate		QA Samples			
Temperature <u> </u> °C	Pesticides/PCBs		Asbestos	X	MS/MSD	Yes / No	NA	
Sp. Conductance: <u> </u> uMHOs	Cyanides		pH		Duplicate ID	Yes / No	NA	
pH <u> </u> units	TOC		RDX		Equipment Rinse ID	Yes / No	NA	
Turbidity <u> </u> N.T.U.	Grain Size				Trip Blank ID	Yes / No	NA	

Sample Description

La Brown, no odor, some staining
massive, non plastic, low plasticity
moist silty sand & clay

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Reviewed by: (Please Print)

Signature: Sue Boles

Signature: Date: 4/20/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Ravenna Army Ammunition Plant
Ravenna Ohio

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBGSS-SPTPM-004-2-50

Date: 3/24/09

Weather: Partly Cloudy

Temperature: 50°

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
	Micro-purge		Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1155 hrs

Sample Type: Composite MI Grab 30
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-3 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	TPH GRO	Corrosivity			
Background: <u>0.0</u> ppm	SVOC	TPH DRO	Reactivity Sulfide/Cyanide			
	Explosives	Chromium +6	Ignitability			
Sample: <u>0.0</u> ppm	Propellants	Nitrate				
Water Level	TAL Metals	Sulfate	QA Samples			
Temperature	Pesticides/PCBs	Asbestos	MS/MSD	Yes / No	NA	
Sp. Conductance:	Cyanides	pH	Duplicate ID	Yes / No	NA	
pH	TOC	RDX	Equipment Rinse ID	Yes / No	NA	
Turbidity	Grain Size		Trip Blank ID	Yes / No	NA	

At Brown
NO odor, NO stains, massive
poorly sorted, low plasticity
moist clayey silt & sand

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Sue Boles (Please Print)

Signature: Sue Boles

Reviewed by: _____ (Please Print)

Signature: _____ Date: 4/20/09

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International
Address: 8451 State Route 5
Ravenna, Ohio 44266

Job Name: WBG RD/RA
Job Location: RVAAP
Job Number: 08-01-124
P.O. Number: Not Provided

Chain Of Custody: 504434
Date Analyzed: 3/30/2009
Person Submitting: Sue Baerer

Attention: Brian Stockwell

Page 1 of 2

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0931911	WBG-SS-SPFPM-001-2-SO	<1%	TR	TR	--	--	--	--	TR	--	--	100	Gray	PC	
0931912	WBG-SS-SPFPM-002-2-SO	<1%	TR	TR	--	--	--	--	TR	--	--	100	Gray	PC	
0931913	WBG-SS-SPFPM-003-2-SO	<1%	TR	--	--	--	--	--	TR	--	--	100	Gray	PC	
0931914	WBG-SS-SPFPM-004-2-SO	<1%	TR	TR	--	--	--	--	TR	--	--	100	Gray	PC	

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

An AIHA (#100470), NVLAP (101143-0), and NY ELAP (#10920) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD. 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643

AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client: PIKA International Job Name: WBG RD/RA Chain Of Custody: 504434
Address: 8451 State Route 5 Job Location: RVAAP Date Analyzed: 3/30/2009
Ravenna, Ohio 44266 Job Number: 08-01-124 Person Submitting: Sue Baerer
P.O. Number: Not Provided
Attention: Brian Stockwell

Page 2 of 2

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
----------------------	--------------------	-------------------	-----------------------	--------------------	------------------------	------------------------------	----------------------------	-----------------------	--------------------	----------------------	------------------	------------------------	-----------------	---------------	----------

Based on this type of heterogeneous sample, the limit of detection is 1%. The methodology used to analyze these samples was designed for the analysis of homogeneous building materials.


The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- 1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

TR = "Trace equals less than 1% of this component"

Samples are retained for 60 days from the date the final report is mailed to the client.


Peerawut Chaikenee

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

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PIKA
INTERNATIONAL, INC.

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/28/2009 Weather Cloudy Temperature 40

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1100 hrs Sample Type: Composite MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)		Analytical Parameters				Other Parameters		
PID / FID Readings: Background:	ppm	VOC		TPH GRO		Corrosivity		
		SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide		
		Explosives		Chromium +6		Ignitability		
Sample:	ppm	Propellants		TCLP Metals				
Water Level	FT	TAL Metals		TCLP Nitroge		QA Samples		
Temperature	°C	Pesticides/PCBs		TCLP2,4 DNT		MS/MSD	Yes / No	NA
Sp. Conductance:	uMHOs	Cyanides		Arsenic		Duplicate ID	Yes / No	NA
pH	units	TOC		Chromium		Equipment Rinse ID	Yes / No	NA
Turbidity	N.T.U.	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA

Sample Description	Split Sample
<p><i>Lt. Brown, no odor, no stain.</i></p> <p><i>Poorly sorted, massive, non plastic</i></p> <p><i>moist, clayey silt with some gravels.</i></p>	<p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____ _____ _____ _____</p>
<p><i>Soil sample description should include:</i></p> <p>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p>	
<p><i>Water sample description should include:</i></p> <p>Color Odor Sheen Turbidity</p>	
<p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>	

Reviewed by: Bue Boles (Please Print)

Signature: Lee Boen Date: 6/3/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-SS-SPFPM-002-3-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/28/2009 Weather Cloudy Temperature 40

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop	X	Trowel
	Pump	Bacon Bomb	Bowl	X	Hand Auger
	Micro-purge		Push Probe		Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1130 hrs Sample Type: Composite MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings:	VOC	TPH GRO	Corrosivity	
Background: ppm	SVOC (PAHs)	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	Chromium +6	Ignitability	
Sample: ppm	Propellants	TCLP Metals		
Water Level FT	TAL Metals	TCLP Nitroge	QA Samples	
Temperature °C	Pesticides/PCBs	TCLP2,4 DNT	MS/MSD	Yes / No NA
Sp. Conductance: uMHOs	Cyanides	Arsenic	Duplicate ID	Yes / No NA
pH units	TOC	Chromium	Equipment Rinse ID	Yes / No NA
Turbidity N.T.U.	Grain Size	Asbestos X	Trip-Blank ID	Yes / No NA

Sample Description

Split Sample

LT Brown, no odor, no stain,
poorly sorted, massive, non plastic,
moist, clayey silt with some gravel.

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Shahram Taherini (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 6/3/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-SS-SPFPM-003-3-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/28/2009 Weather Cloudy Temperature 40

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1200 hrs Sample Type: Composite MI - Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken: _____
Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings:	VOC		TPH GRO		Corrosivity		
Background:	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample:	Propellants		TCLP Metals				
Water Level	TAL Metals		TCLP Nitroge		QA Samples		
Temperature	Pesticides/PCBs		TCLP2,4 DNT		MS/MSD	Yes / No	NA
Sp. Conductance:	Cyanides		Arsenic		Duplicate ID	Yes / No	NA
pH	TOC		Chromium		Equipment Rinse ID	Yes / No	NA
Turbidity	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA

Sample Description

Lt Brown, no odor, no stain,
poorly sorted, massive, non plastic
moist clayey silt with some gravel

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Shahram Taherikia (Please Print)

Reviewed by: Bue Boles (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 6/3/09

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: Winklepeck Burning Grounds RD/RA

Location ID: WBG-SS-SPFPM-004-3-SO

Ravenna Army Ammunition Plant
Ravenna Ohio

Date: 04/28/2009 Weather Cloudy Temperature 40

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1230 hrs Sample Type: Composite MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-6" FT (below surface) Decon: Dedicated - Each Day - Each Location
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings:	VOC		TPH GRO		Corrosivity			
Background: ppm	SVOC (PAHs)		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives		Chromium +6		Ignitability			
Sample: ppm	Propellants		TCLP Metals					
Water Level: FT	TAL Metals		TCLP Nitroge		QA Samples			
Temperature: °C	Pesticides/PCBs		TCLP2,4 DNT		MS/MSD	Yes / No	NA	
Sp. Conductance: uMHOs	Cyanides		Arsenic		Duplicate ID	Yes / No	NA	
pH: units	TOC		Chromium		Equipment Rinse ID	Yes / No	NA	
Turbidity: N.T.U.	Grain Size		Asbestos	X	Trip Blank ID	Yes / No	NA	

Sample Description

Light Brown, no odor, no stains
poorly sorted, non plastic, moist
clayey silt

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Shahram Taherzadeh (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 6/3/09



AT Labs a unit of **assay technology**

Laboratory Report
(Polarized Light Microscopy)

*The Innovation & Value Leader
in Occupational Hygiene Analysis*

Client # 22827

Customer: DIAMOND ENVIRONMENTAL, LLC

Attention: KEITH R BICKEL

Address: 3624 ST RT 303

City, State: RAVENNA, OH 44266

Country:

Batch Number: 2009040873

Date Sampled: April 28, 2009

Date Received: April 28, 2009

Date Reported: April 29, 2009

Analyzed By: Keith Bickle

Reviewed By: Kathy Taylor

The results relate only to the items tested. Unless noted, samples were received in acceptable condition. Negative Results for non-friable organically bound materials (such as floor tiles and roofing materials) are not definitive due to limitations in the method and alternate techniques (such as TEM) may be considered.
ND = None Detected or <0.25%.

Lab ID #	Client ID.	Description / Color	Asbestos Fibers							Other Fibers			Nonfibrous Material
			Chrysotile	Amosite	Crocidolite	Actinolite	Tremolite	Anthophyllite	Cellulose	Glass Fibers	Synthetic	Other	
2009014344	WBG-SS-SPFPM-001-3-SO	BROWN CLAY SOIL	ND	ND	ND	ND	ND	ND	3%	ND	ND	ND	97%
2009014346	WBG-SS-SPFPM-002-3-SO	BROWN CLAY SOIL	ND	ND	ND	ND	ND	ND	1%	ND	ND	ND	99%
2009014347	WBG-SS-SPFPM-003-3-SO	BROWN CLAY SOIL	ND	ND	ND	ND	ND	ND	2%	ND	ND	ND	98%
2009014348	WBG-SS-SPFPM-004-3-SO	BROWN CLAY SOIL	ND	ND	ND	ND	ND	ND	3%	ND	ND	ND	97%

Analytical Method: PLM per EPA 600/M4-82-020.

1 of 1

Accredited by The American Industrial Hygiene Association. Lab #100903

AIHA Accredited Lab #101728
AIHA Accredited Lab #100903

1252 Quarry Lane • Pleasanton, CA 94566 • (800) 833-1258 • FAX: (925) 461-7149
250 DeBartolo Place, # 2525 • Boardman, OH 44512 • (800) 365-3396 • FAX: (330) 758-1245
www.assaytech.com



250 DeBartolo Place
Suite 2525
Boardman, OH 44512
(Tel) (800) 365-3396
Fax (330) 758-1245

LAB REQUEST FORM

(chain of custody for air samples)

SERVICE LEVEL SURCHARGES AUTHORIZED

(Initial Applicable Box)

Initials	6-DAY...0%	Initials	3-DAY...50%
"6-DAY," "3-DAY," "1-DAY" service levels mean "Report available at 5PM on the 12th, 6th, or 3rd day following receipt of sample."		Initials	1-DAY...100%
Other Special Request			

SEND LAB REPORT TO:

Client Phone No. 330-422-0799	Client Fax No. 330-422-0798	BILL TO:	OPTIONAL - Complete if different from "Send Lab Report to"	Universal Client No.
Name/Title KEITH BICKEL		Name/Title		Billing Control No.
<input type="checkbox"/> KEITH R BICKEL (Contact No: 22827) <input type="checkbox"/> DIAMOND ENVIRONMENTAL, LLC <input type="checkbox"/> 3624 ST RT 303 <input type="checkbox"/> RAVRNNA, OH 44266		Company/Organization		Purchase Order No.
		Address		Project No. (Optional)
		City, State, Zip		Quote No. (Optional)

LAB ID NO. (SAMPLE NO.)	SAMPLE IDENTIFICATION (30 CHARACTERS)	MEDIA CODE (SEE BELOW*)	DATE SAMPLED	FLOW RATE (LPM)	TIME (MIN)	VOLUME (L)	ANALYTES REQUESTED	TEST CODES
2009-014344	WBG-SS-SPFPM-001-3-SO	Soil	4/28				PLM	
2009-014346	WBG-SS-SPFPM-002-3-SO	Soil	4/28				PLM	
2009-014347	WBG-SS-SPFPM-003-3-SO	Soil	4/28				PLM	
2009-014348	WBG-SS-SPFPM-004-3-SO	Soil	4/28				PLM	

Sampled By x Keith R Bickel	Date 4/28/09	Relinquished By x Keith R Bickel	Date 4/28/09	Received For Laboratory By x	Date 1/1	Time AM
---------------------------------------	------------------------	--	------------------------	--	--------------------	-------------------

All samples acceptable		*MEDIA CODES (REGULAR)		*MEDIA CODES (PREPAID)	
YES <input type="checkbox"/>	NO <input type="checkbox"/>	T = TUBE C = CASSETTE W = WIPE T&C = PUF or Versatile Sampler Other-Describe:		Item No. & Date from Media Label or No. Printed on Back of Badge	
If "NO", Explain Here:					

LAB

5M 3/98



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix P

WBG Scrap Metal Disposal Records

STRAIGHT BILL OF LADING – SHORT FORM – Original – Not NegotiableShipper's No. WBG-SS001(Carrier) mercer company SCAC. _____Carrier's No. 200282RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations; at Winklepeck Burning Grounds date 11/13/08 from RAVENNA AAP

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

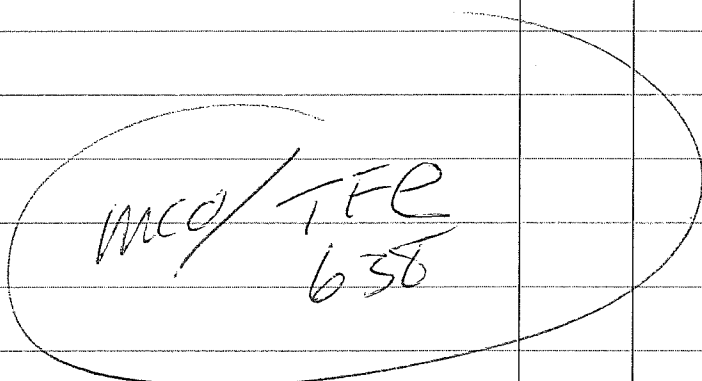
(Mail or street address of consignee for purposes of notification only.)

TO: The mercer company
Consignee 641 Stewart Ave
Street Sharon, PA Zip 16146FROM: RAVENNA AAP
Shipper PIKA International INC
Street 8451 50 RT 5
Origin RAVENNA OH Zip 44266

Route:

Delivering Carrier

Trailer Initial/
NumberU.S. DOT Hazmat
Reg. Number

No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
1	N	SCRAP steel	N/A						
									

Remit C.O.D. to:

Address:

City: _____ State: _____ Zip: _____

COD AMT: _____

\$ _____

Charges Advanced

\$ _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

C. O. D. FEE:Prepaid ☐Collect ☐ \$ _____**FREIGHT CHARGES**☐ Prepaid ☐ Collect

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B). This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

**PLACARDS
REQUIRED****PLACARDS
SUPPLIED**☐ YES ☐ NO - FURNISHED BY CARRIER
DRIVER'S SIGNATURE: _____SHIPPER: PIKAPER: Lew K... DATE: 11/13/08CARRIER: mercerPER: Lew K... DATE: 11/13/08

EMERGENCY RESPONSE

TELEPHONE NUMBER: () _____

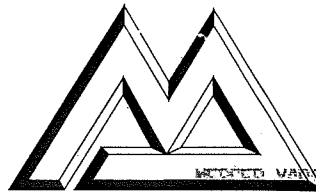
Permanent post office address of shipper

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604).

WEIGHMASTER CERTIFICATE
TRUCK SCALE

TICKET #: TFE638

Purchased From: PIZZUTO
WILLIAM PIZZUTO
4626 CANFIELD ROAD
CANFIELD OH 44406



MERCER COMPANY

200 STEWART AVENUE
P.O. BOX 641
SHARON, PA 16146
724/347-4534 FAX 724/347-8425

WEIGHED VARI **MERCER SERVER**

200 STEWART AVENUE
SHARON
724-347-4534

PA 16146

Veh # T TFE638 TO # 35 OH 08 Order # 35335 Ln 02 Vendor 50

SHIPMT# COMMODITY	GROSS	TARE	NET	ADJ REASON	PD WT
309071 MISCELLANEOUS	58020A	46380A	11640	-3000 DIRT	8640

ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED ALL NEW SCALE WEIGHTS ARE ASSIGNED TO BE POUND WEIGHTS

TOTALS 58020 46380 11640 -3000

8640

TICKET COMMENT: WD665001

WEIGHMASTER SIGNATURE _____

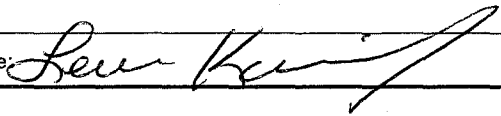

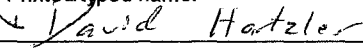

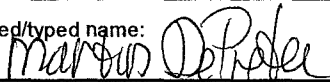
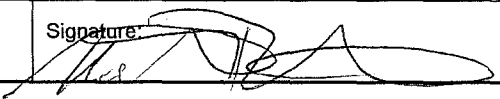
CUSTOMER SIGNATURE _____

A=SCALE 1 B=SCALE 2 C=SCALE 3 D=SCALE 4 M=MANUAL WEIGHT

WEIGHED ON A FAIRBANKS SCALE

! GRS Date 11/13/08 GROSS TONS
! GRS Time 10:43 : 5.1964
! TRS Date 11/13/08 :
! TRS Time 11:16 :

MPPEH/RANGE RESIDUE INSPECTION, CERTIFICATION, AND CHAIN OF CUSTODY FORM

Project Location: Winklepeck Buring Grounds, Ravenna AAP, Ravenna, Oh 44266		Contract No:		DO No:	Page 1 of 1
Line	Description	Source (e.g., Grid or Range)	Container/Serial Number	Container Type	Unit Wt.
1	SCRAP STEEL	Winklepeck Burning Grounds	200282	30 cu yd	
2					
3					
4					
5					
Inspector's certification: Senior Unexploded Ordnance Supervisor					
Printed/typed name: Lew Kovarik			Signature: 		Date: 11-13-08
Verifier certification: Unexploded Ordnance Safety/QA/QC Officer					
Printed/typed name: Mel Lau			Signature: 		Date: 11-13-08
Transporter(s)	Transporter 1 acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name: 		Signature: 		Date: 11/13/08
	Transporter 2 acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name:		Signature:		Date:
Final Disposition	Facility owner or operator: Certification of receipt of AEDA/Range Residue materials, except as noted above. Acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name: 		Signature: 		Date: 11-13-08



Level of Contamination: 5X

DATE: 11/13/08

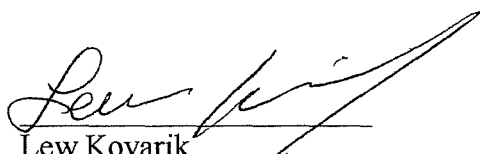
TRUCK / CONTAINER NO. 200282

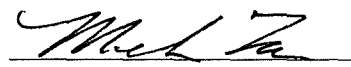
SHIPMENT NO. WBG-SS001

ITEM DESCRIPTION: SCRAP STEEL

Source: Winklepeck Buring Grounds, Ravenna AAP, Ravenna, Oh 44266

According to the U.S. Army Pamphlet Industrial Operations Command (IOCP 385-1), the 5X level of contamination exists "when no significant amounts (not enough to present explosive safety hazard) of contaminants remain. The article, equipment, or building does not pose an explosive safety hazard and is safe for welding, drilling, sawing, etc., and sale to general public." The item(s) identified by Truck and Shipment No. above have been sampled and inspected by the site PIKA International, Inc. (PIKA) Unexploded Ordnance (UXO) Quality Assurance (QA) Specialist to ensure no explosive safety hazard exists. Therefore, to the best of our knowledge, the condition of the items identified above by Truck and Shipment No. are 5X.


Lew Kovarik
Senior UXO Supervisor
PIKA International, Inc.


Mel Lau
UXO Quality Assurance Specialist
PIKA International, Inc.

PREVIOUS EDITION MAY BE USED

WEIGHMASTER CERTIFICATE
TRUCK SCALE

TICKET #: TFH226
SHIP DT: 02/19/09

Purchased From: PIZZ00
WILLIAM PIZZUTO
4626 CANFIELD ROAD
CANFIELD, OH 44406



**MERCER
COMPANY**
200 STEWART AVENUE
P.O. BOX 641
SHARON, PA 16146

MERCER YARD **MERCER SERVER**
200 STEWART AVENUE
SHARON, PA 16146
724-347-4534

Veh # T TFH226 ID # 3S JH 11 Order # 36128 Ln 02

SHPMNT#	COMMODITY	GROSS	TARE	NET	ADJ REASON	PD WT
314247	MISCELLANEOUS	79320a	50500a	28820	-4000 DIRT	24820
ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED. ALL NON-POUND WEIGHTS ARE ASSUMED TO BE MANUAL WEIGHTS						
TOTALS		79320	50500	28820	-4000	24820

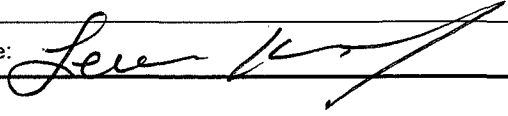


WEIGHMASTER SIGNATURE

CUSTOMER SIGNATURE

(MJD)

-----+
| GRS Date 02/19/09 | GROSS TONS
| GRS Time 09:51 | 11.0804
| TBE Date 02/19/09 |

MPPEH/RANGE RESIDUE INSPECTION, CERTIFICATION, AND CHAIN OF CUSTODY FORM

Project Location: Winklepeck Buring Grounds, Ravenna AAP, Ravenna, Oh 44266		Contract No:		DO No:	Page <u>1</u> of <u>1</u>
Line	Description	Source (e.g., Grid or Range	Container/Serial Number	Container Type	Unit Wt.
1	SCRAP STEEL	Winklepeck Burning Grounds	28620	30 cu yd	
2					
3					
4					
5					
Inspector's certification: Senior Unexploded Ordnance Supervisor					
Printed/typed name: Lew Kovarik			Signature: 		Date: 2-18-09
Verifier certification: Unexploded Ordnance Safety/QA/QC Officer					
Printed/typed name: Mel Lau			Signature: 		Date: 2-18-09
Transporter(s)	Transporter 1 acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name: JON HOFFMAN		Signature: 		Date: 2-18-09
	Transporter 2 acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name:		Signature:		Date:
Final Disposition	Facility owner or operator: Certification of receipt of AEDA/Range Residue materials, except as noted above. Acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name:		Signature:		Date:



Level of Contamination: 5X

DATE: 2/18/09

TRUCK / CONTAINER NO. 28620

SHIPMENT NO. WBG-SS002

ITEM DESCRIPTION: SCRAP STEEL

Source: Winklepeck Buring Grounds, Ravenna AAP, Ravenna, Oh 44266

According to the U.S. Army Pamphlet Industrial Operations Command (IOCP 385-1), the 5X level of contamination exists "when no significant amounts (not enough to present explosive safety hazard) of contaminants remain. The article, equipment, or building does not pose an explosive safety hazard and is safe for welding, drilling, sawing, etc., and sale to general public." The item(s) identified by Truck and Shipment No. above have been sampled and inspected by the site PIKA International, Inc. (PIKA) Unexploded Ordnance (UXO) Quality Assurance (QA) Specialist to ensure no explosive safety hazard exists. Therefore, to the best of our knowledge, the condition of the items identified above by Truck and Shipment No. are 5X.

A handwritten signature in black ink, appearing to read "Lew Kovarik", written over a horizontal line.

Lew Kovarik
Senior UXO Supervisor
PIKA International, Inc.

A handwritten signature in black ink, appearing to read "Mel Lau", written over a horizontal line.

Mel Lau
UXO Quality Assurance Specialist
PIKA International, Inc.

26. RIC (4-6)
 UI (23-24)
 QTY (25-29)
 CON CODE (71)
 DIST (55-56)
 UP (74-80)

25. NATIONAL
STOCK NO. &
ADD (8-22)

24. DOCUMENT NUMBER
& SUFFIX (30-44)

PREVIOUS EDITION MAY BE USED



April 20, 2009,

Marc Pozan
Belson Steel Center Scrap, Inc.
2685 N. Route 50
Bourbonnais, IL 60914

RE: Munitions Debris (MD) and Scrap Metal from the former Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant

Dear Mr. Pozan:

We greatly appreciate your interest on this project and would like to thank you for your timely response to our request for transportation and recycling of munitions debris and metal scrap from Ravenna Army Ammunition Plant (RVAAP). Due to the origin of the material from an Army facility, PIKA would like to request confirmation from Belson Steel Center and all its subcontractors/smelters regarding its blending and recycling process for the RVAAP scrap.

Blending RVAAP munitions debris and scrap from the former Winklepeck Burning Grounds with material from other sources prevents PIKA and the Army from maintaining positive control over the ultimate disposition of the munitions debris and scrap. Hence, we would like to request The Belson Steel Center and all its subcontractors/smelters to provide confirmation of the following:

- The Belson Steel Center will only blend RVAAP MD and scrap with non-RVAAP scrap for the purpose of meeting the feedstock needs of the smelter operations;
- The Belson Steel Center guarantees that under this blending arrangement, all RVAAP MD and scrap will be sent to The Federal Melting Company (Nucor, IL) Smelting facility;
- The Belson Steel Center transportation carriers shall be required to carry a PIKA Bill of Lading as shipping documentation. Copies of the bill of lading duly signed by The Belson Steel Center receiving facility and the certified weight ticket for each load shall be faxed to PIKA'S Ravenna office at (330) 358-2924 within 5 days of receipt of the loads;
- The Belson Steel Center and its subcontractors/smelters will hold PIKA harmless from liability arising through incident(s) created by the blending of non-RVAAP scrap with the RVAAP MD and scrap;
- The Belson Steel Center and its subcontractors/smelters will use cold methods to shred or downsize the RVAAP MD and scrap materials. No flame or torches will be used to downsize the RVAAP MD and scrap material;
- Belson Steel Center receiving smelter will provide standalone "Certificates of Recycling" upon completion of recycling/smeltering of all shipments received from the former Winklepeck Burning Grounds.



We would greatly appreciate it if you could acknowledge this letter of understanding and fax it back to our Ravenna office at (330)-358-2924. We look forward to continue working with The Belson Steel Center in a mutually rewarding relationship on this and other projects. Please feel free to contact us at 330-358-7135 should you have any questions or need further clarifications.

Sincerely,

Lew Kovarik
Cell: 330-352-9887

Acknowledgement by the Belson Steel Center

Name: Zachary Upsta
Signature: [Handwritten Signature]

1077433
Shipper's No. WBG55-003

Carrier Dart Trucking SCAC _____ Carrier's No. 220397
RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;
at Ravenna AAP, date 4/28/09 from Winklepeck Burning Ground

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to cause to be delivered at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

FROM: RAVENNA AAP
Shipper PIKA INC
Street 8451 ST RT 5
Origin RAVENNA OH Zip 44266

Vehicle
NumberU.S. DOT Hazmat
Reg. Number:[illegible]

DATE: 4/28/09

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

249935

WEIGHED ON
FAIRBANKS PRINTOMATIC

Date

4-28-09

BELSON STEEL CENTER SCRAP INC.

BOURBONNAIS, IL 60914 815-932-7416

Customer's Name

Address

Commodity

Munitions debris

DRIVER ON—OFF—

Remarks

59740 lbs. Gross

43840 lbs. Tare

15,900

lbs. Net @

N.V.

Per Ton Price

No Value

Shipper

(per Hare)


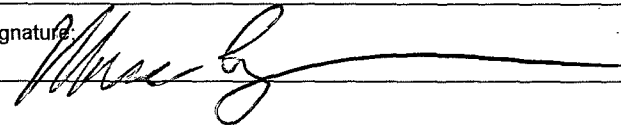
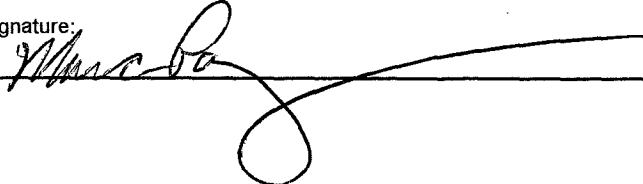
Dart # 596

Weigher

Received on

MAY 04 2009

MPPEH/RANGE RESIDUE INSPECTION, CERTIFICATION, AND CHAIN OF CUSTODY FORM

Project Location: Winklepeck Buring Grounds, Ravenna AAP, Ravenna, Oh 44266		Contract No:		DO No:	Page <u>1</u> of <u>1</u>
Line	Description	Source (e.g., Grid or Range)	Container/Serial Number	Container Type	Unit Wt.
1	Munitions Debris	Winklepeck Burning Grounds	220397	20 cu yd	
2					
3					
4					
5					
Inspector's certification: Senior Unexploded Ordnance Supervisor					
Printed/typed name: Lew Kovarik			Signature: 	Date: 4-28-09	
Verifier certification: Unexploded Ordnance Safety/QA/QC Officer					
Printed/typed name: Mel Lau			Signature: 	Date: 4-28-09	
Transporter(s)	Transporter 1 acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name:		Signature: 	Date: 4-28-09	
	Transporter 2 acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name:		Signature: 	Date:	
Final Disposition	Facility owner or operator: Certification of receipt of AEDA/Range Residue materials, except as noted above. Acknowledgment of receipt of materials properly sealed/secured.				
	Printed/typed name:		Signature: 	Date:	

Belson Steel Center Scrap, Inc.

1685 N. Route 50
Bourbonnais, Illinois 60914

Phone (815) 932-7416
Fax (815) 932-7436

May 1, 2009


PIKA International Inc.
Shahram Taherinia
st@pikainc.com

Delivered Via E-Mail

To Whom It May Concern:

Belson Steel Center Scrap, Inc received 15,900 lbs of munitions scrap on 4/28/09. All material was processed beyond re-use, delivered to Nucor Steel, Bourbonnais, IL and melted in an electric arc furnace.

Regards,



Dave Dillon
Vice-President of Sales
Belson Steel Center Scrap, Inc.

Cc: Marc Pozan (globalsteel@aol.com)
Don Emilian (demilian@mac.com)



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix Q

Stockpile Removal Confirmation Sample Results

WINKLEPECK
Soil Stockpile Results Summary Table

Analyte	WBG-BSP-001	Q	WBG-BSP-002	Q	WBG-BSP-003	Q
Sample Date	12/10/2008		12/10/2008		12/10/2008	
EXPLOSIVES ug/kg						
HMX	110	J	1500		2200	
RDX	860	U	20000		4300.00	
1,3,5-Trinitrobenzene	BQL	U	BQL	U	BQL	U
1,3- Dinitrobenzene	BQL	U	BQL	U	BQL	U
Nitrobenzene	BQL	U	BQL	U	220	
2,4,6-Trinitrotoluene	320		16000		BQL	U
Tetryl	BQL	U	BQL	U	BQL	U
2,4-Dinitrotoluene	BQL	U	100	J	BQL	U
2,6-Dinitrotoluene	BQL	U	70	J	BQL	U
2-Amino-4,6-Dinitrotoluene	100		2600		860	
4-Amino-2,6-Dinitrotoluene	130		3100		1100	
2-Nitrotoluene	BQL	U	BQL	U	BQL	U
4-Nitrotoluene	BQL	U	BQL	U	BQL	U
3-Nitrotoluene	BQL	U	BQL	U	BQL	U
TCLP METALS ug/L						
Arsenic	BQL	U	BQL	U	BQL	U
Barium	2280		1780		2030	
Cadmium	BQL	U	BQL	U	BQL	U
Chromium	BQL	U	BQL	U	BQL	U
Lead	960		439		373	
Selenium	BQL	U	BQL	U	BQL	U
Silver	BQL	U	BQL	U	BQL	U
7471A TCLP ug/L						
Mercury	BQL	U	BQL	U	BQL	U
8081A - TCLP PESTICIDES ug/L						
Chlordane	BQL	U	BQL	U	BQL	U
Endrin	BQL	U	BQL	U	BQL	U
Gamma-BHC (Lindane)	BQL	U	BQL	U	BQL	U
Heptachlor	BQL	U	BQL	U	BQL	U
Heptachlor epoxide	BQL	U	BQL	U	BQL	U
Methoxychlor	BQL	U	BQL	U	BQL	U
Toxaphene	BQL	U	BQL	U	BQL	U
8151A - TCLP HERBICIDES ug/L						
2,4-D	BQL	U	BQL	U	BQL	U
2,4,5-TP (Silvex)	BQL	U	BQL	U	BQL	U
8260B -TCLP VOCs ug/L						
1,1-Dichloroethene	BQL	U	BQL	U	BQL	U
1,2-Dichloroethane	BQL	U	BQL	U	BQL	U
1,4-Dichlorobenzene	BQL	U	BQL	U	BQL	U
2-Butanone	BQL	U	BQL	U	BQL	U
Benzene	BQL	U	BQL	U	BQL	U
Carbon tetrachloride	BQL	U	BQL	U	BQL	U
Chlorobenzene	BQL	U	BQL	U	BQL	U
Chloroform	BQL	U	BQL	U	BQL	U
Tetrachloroethylene	BQL	U	BQL	U	BQL	U
Trichloroethene	BQL	U	BQL	U	BQL	U
Vinyl chloride	BQL	U	BQL	U	BQL	U

WINKLEPECK
Soil Stockpile Results Summary Table

Analyte	WBG-BSP-001	Q	WBG-BSP-002	Q	WBG-BSP-003	Q
Sample Date	12/10/2008		12/10/2008		12/10/2008	
8270C -TCLP SVOCs ug/L						
1,4-Dichlorobenzene	BQL	U	BQL	U	BQL	U
2,4,5-Trichlorophenal	BQL	U	BQL	U	BQL	U
2,4,6-Trichlorophenol	BQL	U	BQL	U	BQL	U
2,4-Dinitrotoluene	BQL	U	BQL	U	BQL	U
2-methylphenol	BQL	U	BQL	U	BQL	U
3 & 4-Methylphenol	BQL	U	BQL	U	BQL	U
Hexachlorobenzene	BQL	U	BQL	U	BQL	U
Hexachlorobutadiene	BQL	U	BQL	U	BQL	U
Hexachloroethane	BQL	U	BQL	U	BQL	U
Nitrobenzene	BQL	U	BQL	U	BQL	U
Pentachlorophenol	BQL	U	BQL	U	BQL	U
Pyridine	BQL	U	BQL	U	BQL	U

U - Indicates that the compound was analyzed for but not detected

BQL - Below Quantitation Limit

Inorganics:

J - Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

Organics:

J - Value is less than the reported limit but greater than the MDL

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: **RVAAP - WINKLEPECK RA**

Location ID: **WBG-BSP-001**

Date: **12/10/2008**

Weather: **Overcast**

Temperature: **38**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: **0900** hrs

Sample Type: **Composite** - MI - Grab

Location: **Plotted on Map - Staked in Field**

If MI, # of increments taken:

Estimated - Measured - Surveyed

Sample Depth: **0-6"** FT (below surface)

Decon: **Dedicated** Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters	
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity	
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives	X	Chromium +6		Ignitability	
Sample: ppm	Propellants		Nitrate			
Water Level: FT	TAL Metals		Sulfate		QA Samples	
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No NA
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	NA
pH: units	TOC		Full TCLP	X	Equipment Rinse ID	NA
Turbidity: N.T.U.	Grain Size				Trip Blank ID	NA

Sample Description

color = **DK Brown** odor = **no odor**
 staining = **NO Stains** texture = **massive**
 sorting = **poorly sorted** plasticity = **non plastic**
 moisture = **wet**

Sample was collected from **Big StockPile**

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: **ST** (Please Print)

Reviewed by: **Sue Boles** (Please Print)

Signature: _____

Signature: **Sue Boles** Date: **12/16/08**

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: RVAAP - WINKLEPECK RA

Location ID: WBG-BSP-002

Date: 12/10/2008

Weather: Overcast

Temperature: 38

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 0930 hrs

Sample Type: Composite - MI - Grab

Location: Plotted on Map - Staked in Field

If MI, # of increments taken: _____

Estimated - Measured - Surveyed

Sample Depth: 0-6" FT (below surface)

Decon: Dedicated Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters											
PID / FID Readings: Background: _____ ppm	VOC		TPH GRO		Corrosivity											
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide											
	Explosives	X	Chromium +6		Ignitability											
Sample: _____ ppm	Propellants		Nitrate		<div>QA Samples</div> <table border="1"> <tr> <td>MS/MSD</td> <td>Yes / No NA</td> </tr> <tr> <td>Duplicate ID</td> <td>NA</td> </tr> <tr> <td>Equipment Rinse ID</td> <td>NA</td> </tr> <tr> <td>Trip Blank ID</td> <td>NA</td> </tr> </table>				MS/MSD	Yes / No NA	Duplicate ID	NA	Equipment Rinse ID	NA	Trip Blank ID	NA
MS/MSD	Yes / No NA															
Duplicate ID	NA															
Equipment Rinse ID	NA															
Trip Blank ID	NA															
Water Level _____ FT	TAL Metals		Sulfate													
Temperature _____ °C	Pesticides/PCBs		Asbestos													
Sp. Conductance: _____ uMHOs	Cyanides		pH													
pH _____ units	TOC		Full TCLP	X												
Turbidity _____ N.T.U.	Grain Size															

Sample Description

color = DK Brown odor = non
 staining = non texture = matte
 sorting = poorly sorted plasticity = non plastic
 moisture = wet

Sample was collected from Big StockPile

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: _____

Signature: Sue Boles Date: 12/10/08

Field Sampling Report

PIKA
INTERNATIONAL, INC.

Project Name: RVAAP - WINKLEPECK RA

Location ID: WBG-SSP-003

Date: 12/10/2008

Weather: overcast

Temperature: 38

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
	Micro-purge		Push Probe		Plastic Liner	
Type/Construction			Mattocks			
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1000 hrs

Sample Type: Composite - MI - Grab

Location: Plotted on Map - Staked in Field

If MI, # of increments taken: 1

Estimated - Measured - Surveyed

Sample Depth: 0-6" FT (below surface)

Decon: Dedicated Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters			
PID / FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity			
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide			
	Explosives	X	Chromium +6		Ignitability			
Sample: ppm	Propellants		Nitrate		QA Samples			
Water Level: FT	TAL Metals		Sulfate					
Temperature: °C	Pesticides/PCBs		Asbestos		MS/MSD	Yes / No NA		
Sp. Conductance: uMHOs	Cyanides		pH		Duplicate ID	NA		
pH: units	TOC		Full TCLP	X	Equipment Rinse ID	NA		
Turbidity: N.T.U.	Grain Size				Trip Blank ID	NA		

Sample Description

color = DK Brown odor = non
 staining = non texture = massive
 sorting = poorly sorted plasticity = non plastic
 moisture = wet

Sample was collected from Small StockPile

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: ST (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: [Signature]

Signature: Sue Boles Date: 12/10/08

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-004-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8330
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107529

Analytical Method: SW8330
Date Analyzed: 12/26/2008
Time Analyzed: 23:30
Analysis Batch: 120651

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,3,5-Trinitrobenzene	BQL	100	ug/kg	U	1
1,3-Dinitrobenzene	BQL	100	ug/kg	U	1
2,4,6-Trinitrotoluene	320	100	ug/kg		1
2,4-Dinitrotoluene	BQL	100	ug/kg	U	1
2,6-Dinitrotoluene	BQL	100	ug/kg	U	1
2-Amino-4,6-Dinitrotoluene	100	100	ug/kg		1
4-Amino-2,6-Dinitrotoluene	130	100	ug/kg		1
HMX	110	200	ug/kg	J	1
Nitrobenzene	BQL	100	ug/kg	U	1
RDX	860	200	ug/kg		1
Tetryl	BQL	200	ug/kg	U	1
m-Nitrotoluene	BQL	200	ug/kg	U	1
o-Nitrotoluene	BQL	200	ug/kg	U	1
p-Nitrotoluene	BQL	200	ug/kg	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3010A
Prep Date: 12/15/2008
Prep Time: 10:00
Prep Batch: 107274

Analytical Method: SW6010B_TCLP
Date Analyzed: 12/22/2008
Time Analyzed: 01:49
Analysis Batch: 120527

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	2280	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	960	100	ug/L		1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW7470A_DIG
Prep Date: 12/15/2008
Prep Time: 16:00
Prep Batch: 107288

Analytical Method: SW7471A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 10:52
Analysis Batch: 120526

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3520C
Prep Date: 12/15/2008
Prep Time: 12:30
Prep Batch: 107271

Analytical Method: SW8081A_TCLP
Date Analyzed: 12/15/2008
Time Analyzed: 19:58
Analysis Batch: 120106

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8151
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107294

Analytical Method: SW8151A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 14:38
Analysis Batch: 120107

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW5030B
Prep Date: 12/18/2008
Prep Time: 09:25
Prep Batch: 107445

Analytical Method: SW8260B_TCLP
Date Analyzed: 12/18/2008
Time Analyzed: 17:39
Analysis Batch: 120400

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

Summary of Analytical Results

Client ID: WBG-BSP-001
GPL ID: 812089-001-001-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3510C
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107285

Analytical Method: SW8270C_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 06:25
Analysis Batch: 120104

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-002-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8330
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107529

Analytical Method: SW8330
Date Analyzed: 12/27/2008
Time Analyzed: 00:56
Analysis Batch: 120651

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,3,5-Trinitrobenzene	BQL	100	ug/kg	U	1
1,3-Dinitrobenzene	BQL	100	ug/kg	U	1
2,4,6-Trinitrotoluene	16000	100	ug/kg		1
2,4-Dinitrotoluene	100	100	ug/kg	J	1
2,6-Dinitrotoluene	70	100	ug/kg	J	1
2-Amino-4,6-Dinitrotoluene	2600	100	ug/kg		1
4-Amino-2,6-Dinitrotoluene	3100	100	ug/kg		1
HMX	1500	200	ug/kg		1
Nitrobenzene	BQL	100	ug/kg	U	1
RDX	20000	200	ug/kg		1
Tetryl	BQL	200	ug/kg	U	1
m-Nitrotoluene	BQL	200	ug/kg	U	1
o-Nitrotoluene	BQL	200	ug/kg	U	1
p-Nitrotoluene	BQL	200	ug/kg	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3010A
Prep Date: 12/15/2008
Prep Time: 10:00
Prep Batch: 107274

Analytical Method: SW6010B_TCLP
Date Analyzed: 12/22/2008
Time Analyzed: 02:14
Analysis Batch: 120527

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	1780	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	439	100	ug/L		1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW7470A_DIG
Prep Date: 12/15/2008
Prep Time: 16:00
Prep Batch: 107288

Analytical Method: SW7471A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 11:08
Analysis Batch: 120526

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3520C
Prep Date: 12/15/2008
Prep Time: 12:30
Prep Batch: 107271

Analytical Method: SW8081A_TCLP
Date Analyzed: 12/15/2008
Time Analyzed: 20:29
Analysis Batch: 120106

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8151
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107294

Analytical Method: SW8151A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 15:03
Analysis Batch: 120107

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW5030B
Prep Date: 12/18/2008
Prep Time: 09:25
Prep Batch: 107445

Analytical Method: SW8260B_TCLP
Date Analyzed: 12/18/2008
Time Analyzed: 18:19
Analysis Batch: 120400

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

Summary of Analytical Results

Client ID: WBG-BSP-002
GPL ID: 812089-002-005-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3510C
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107285

Analytical Method: SW8270C_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 07:04
Analysis Batch: 120104

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-003-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8330
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107529

Analytical Method: SW8330
Date Analyzed: 12/27/2008
Time Analyzed: 01:39
Analysis Batch: 120651

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,3,5-Trinitrobenzene	BQL	99	ug/kg	U	1
1,3-Dinitrobenzene	BQL	99	ug/kg	U	1
2,4,6-Trinitrotoluene	BQL	99	ug/kg	U	1
2,4-Dinitrotoluene	BQL	99	ug/kg	U	1
2,6-Dinitrotoluene	BQL	99	ug/kg	U	1
2-Amino-4,6-Dinitrotoluene	860	99	ug/kg		1
4-Amino-2,6-Dinitrotoluene	1100	99	ug/kg		1
HMX	2200	200	ug/kg		1
Nitrobenzene	220	99	ug/kg		1
RDX	4300	200	ug/kg		1
Tetryl	BQL	200	ug/kg	U	1
m-Nitrotoluene	BQL	200	ug/kg	U	1
o-Nitrotoluene	BQL	200	ug/kg	U	1
p-Nitrotoluene	BQL	200	ug/kg	U	1

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3010A
Prep Date: 12/15/2008
Prep Time: 10:00
Prep Batch: 107274

Analytical Method: SW6010B_TCLP
Date Analyzed: 12/22/2008
Time Analyzed: 02:18
Analysis Batch: 120527

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	2030	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	373	100	ug/L		1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW7470A_DIG
Prep Date: 12/15/2008
Prep Time: 16:00
Prep Batch: 107288

Analytical Method: SW7471A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 11:12
Analysis Batch: 120526

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3520C
Prep Date: 12/15/2008
Prep Time: 12:30
Prep Batch: 107271

Analytical Method: SW8081A_TCLP
Date Analyzed: 12/15/2008
Time Analyzed: 21:00
Analysis Batch: 120106

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: EXT_SW8151
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107294

Analytical Method: SW8151A_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 15:28
Analysis Batch: 120107

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW5030B
Prep Date: 12/18/2008
Prep Time: 09:25
Prep Batch: 107445

Analytical Method: SW8260B_TCLP
Date Analyzed: 12/18/2008
Time Analyzed: 18:59
Analysis Batch: 120400

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: WBG-SSP-003
GPL ID: 812089-003-006-1/1
Matrix: SOIL
Date Collected: 12/10/2008
Date Received: 12/11/2008

Prep Method: SW3510C
Prep Date: 12/15/2008
Prep Time: 00:00
Prep Batch: 107285

Analytical Method: SW8270C_TCLP
Date Analyzed: 12/16/2008
Time Analyzed: 07:44
Analysis Batch: 120104

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1



Appendix R

Data Validation Report

Data Validation Report
for

PIKA

Date: 5/6/09

Location: Ravenna Arsenal, Ravenna, OH

Project #: WBG RD/RA

Laboratory Project #: A8K070404, A8K240170, A8L040346, A8L150187,
A9A130116, A9B100247

Laboratory: Test America, North Canton, OH & Sacramento, CA

Data Validator: 

William W. Purves

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1.0 Introduction

This Data Validation Report (DVR) details the assessment and validation for analytical data collected and generated during field activities at the WBG RD/RA site of the Ravenna Army Ammunition Plant. The laboratory subcontracted for the chemical analysis of the soil samples was Test America, North Canton, OH. The laboratory is a United States Corps of engineers (USACE) validated to perform soil, water, and hazardous waste analysis.

Between November 6, 2008 and February 10, 2009 samples were taken and shipped to Test America North Canton. The explosives by method 8330 were shipped to Test America Sacramento CA. A summary table, in Attachment A, provides the laboratory performing the analysis, field sample identification, laboratory sample identification, sample date, sample time, and the analysis requested for each sample discussed in this DVR. Copies of sample chain-of-custody (COC) documents and cooler receipt forms for samples discussed in this DVR are included in Attachment B as there were some issues with the COCs. Analytical results of the samples are provided in tabular format in Attachment C. The analysis that were performed and validated included the following:

Explosives via USEPA Method 8330
Semi-Volatile Organics via USEPA Method 8270C
Propellants via USEPA Method 353.2 and 8330 Modified
Total Metals via USEPA Method 6010A

Data validation of all sample results was performed by Purves Environmental. A review of 100% of the data, which allows for complete independent data review without reconstruction of analytical data was conducted as well as review of all quality controls and calibration curves. All issues such as manual integration and chromatograms were comprehensively reviewed which allowed for complete verification of the chemical analyses. The comprehensive review did not include the recalculation of calibration curves and sample results. The data were validated in accordance with the analytical methods and the documents entitled:

National Functional Guidelines for Data Validation
US Army Corps of Engineers Louisville District LCG Data Validation
Guidance Document Version 5

The results of the data validation are presented in the following subsections.

Section 2.0 Quality Control Results
Section 3.0 QC Summary
Section 4.0 References
Attachments A, B, C, Tables and Appendix D

1.1 Acronyms

The following acronyms may be used through out the document.

B	The compound may be found in the method blank. The laboratory also uses this flag in the metals analysis to flag the data when the metal quantity detected is above the method detection limit (MDL) but below the method reporting limit (MRL). The data validator has removed such in the final data summary so that it is understood that the data was not affected by the method blank.
BFB	Bromofluorobenzene is a compound used in method 8260B tuning as well as a surrogate.
°C	degrees Celsius
CCB	Continuing Calibration Blank (used in Metals analysis)
CCC	Calibration Check Compound (used in GCMS)
CCV	Continuing Calibration Verification (used in all methods to verify system calibration)
CF	Calibration Factor (used in GC)

CLP	Contract Laboratory Program (used in Superfund program)
COC	Chain of Custody
%D	Percent Difference
DQO	Data Quality Objectives
GC	Gas Chromatography
GCMS or GC/MS	Gas Chromatography Mass Spectroscopy
HPLC	High Performance Liquid Chromatography (also know as High Pressure Liquid Chromatography)
ICB	Initial Calibration Blank (used primarily in metals analysis)
ICV	Initial Calibration Verification (second source standard used to initially verify the calibration curve.
ICS	Interference Check Solution (used in ICP and ICPMS only)
ICSA	Interference Check Solution A
ICSAB	Interference Check Solution A&B combined
IS	Internal Standard
JOAAP	Joliet Army Ammunition Plant
LCG	Louisville Chemistry Guideline Version 5
LCS	Laboratory Control Sample
MRL	Method Reporting Limit (MRL)
MDL	Method Detection Limit (MDL)
MD	Matrix Duplicate (often referred to as the sample duplicate)
MSA	Method of Standard Additions
MS/MSD	Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
PARCC	Precision, Accuracy, Represenativeness, Completeness, Comparability
PCB	Polychlorinated Biphenyl also known as Arochlor
PD	Post Digested Spike (also PDS)
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RF	Response Factor (used in GC and GCMS)
RPD	Relative Percent Difference
RRF	Relative Response Factor (used in GC and GCMS)
RSD	Relative Standard Deviation
SAP	Sampling and Analysis Plan
SD	Standard Deviation
SDG	Sample Delivery Group
SOP	Standard Operating Procedure (SOPs is plural)
SPCC	System Performance Check Compounds (used in GCMS)
STL	Severn Trent Laboratories
SVOC	Semi-volatile Organic Compounds
TCLP	Toxic Compound Leaching Procedure
TERC	Total Environmental Restoration Contract
USACE or ACE	United States Army Corps of Engineers Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds

2.0 Quality Control Results

This section provides a summary of the laboratory QC results, which were used to meet the project data quality objectives (DQOs) for the investigation. The section below outlines what parts of each method were checked and a brief statement is provided where issues may occur. However a detailed summary is provided along with the tabular information.

This report covers the following project numbers: A8K070404, A8K240170, A8L040346, and A8L150187, A9A130116, A9B100247

2.1 Semi-Volatile Organics (Soils) Method 8270C

The analytes evaluated were a select group of PAHs (Poly Aromatic Hydrocarbons). Those Analytes are: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, and Dibenzo(a,h)anthracene. The validation is restricted to these compounds and their associated Internal Standards and Surrogates. Issues that arise in any other compounds that are not part of the above compounds are not evaluated.

2.1.1 Initial Calibration

The Initial calibration requires a minimum of five (5) standards and a blank. The calibration used by the laboratory consisted of a blank water and as many as nine (9) standards. The curve should have a linear correlation coefficient of greater than 0.990 or an RSD or less than 15%. All of the calibration curves met method and USACE requirements.

2.1.2 Initial Calibration Verification (ICV)

An Initial Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies that the calibration curve is stable and meets the method requirements. If the recovery is outside of the upper or lower recovery range, the system must be recalibrated and checked before samples are analyzed. The above analytes met method and USACE requirements.

2.1.3 Continuing Calibration Verification (CCV)

A Continuing Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies the calibration curve is maintaining linearity and stability from drift over time. It is run every ten samples or less depending upon the number of samples in an analytical run. The analytical run must end with a CCV being run as the last sample in the run along with the Continuing Calibration Blank (CCB). If the recovery is over or below the upper and lower limits, all of the sample from the first passed CCV must be rerun. All CCVs passed.

2.1.4 Laboratory Control Sample Analysis (LCS)

The laboratory Control Sample provides a measure of the overall laboratory performance. It primarily measures the extraction/sample preparation process. If the LCS exceeds the upper or lower recovery range the sample is affected. Recoveries below the lower limit (LL) adversely affect non-detect compounds and positive hits. Recoveries above the upper limit (UL) adversely affect positive hits but not non-detect compounds. The laboratory establishes performance based recoveries of the LCS and bases the flagging criteria on such conditions. All analytes of concern met recovery criteria.

2.1.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

The MS/MSDs for the analytes of concern in A8K070404 did not pass due to dilution. The dilution of the sample caused the spikes to be diluted, thus no MS/MSD issues. Project number A8K240170 did not have an MS/MSD run on any sample specifically from the PIKA samples. Based upon the high concentrations in the samples, it is likely that the MS/MSD would have been diluted out as in project number A8K070404. In project # A8L040346 the case narrative states the some MS/MSD compounds were outside of the control limits, however, when reviewing the analytes of concern, all MS/MSD met method requirements.

Sample WBGcs-071/401m-SDW2-SO sampled 1/12/09 Project # A9A130116 had low recovery for both spikes for Benzo (b) Fluroanthene which indicates a matrix interference, however Method of Standard additions would need to be run to confirm a true interference. Since no additional action was taken to confirm any interference, it is the professional judgment of the data validator that the data for that analyte is estimated.

2.1.6 Method Blank Analysis

The Method Blank (MB) were evaluated and found that all blanks were less than ½ the Method Reporting Limit. This indicates that there were no contaminants in the blank that could affect low level or non-detect samples. All blanks met method requirements.

2.1.7 MRLs

The MRL is a measure of the system to detect the compounds at the method reporting limit. The recovery range established is 70%-130%. The MRLs met method requirements

2.1.8 Field Duplicate Analysis (Sample Precision)

The field sample WBGcs-P61m-SDW-SO and WBGcs-P61m-SDW-DUP Had high concentrations and high % differences indicating a very heterogeneous soil condition resulting in poor field sample precision.

2.1.9 Surrogates

The surrogates provide assurance that the samples is purging and processing through the system in good order. Surrogate recoveries that are within the recovery range established indicates that the sample analysis process has no interferences or issues that would provide questionable results. All surrogates that were related to laboratory QC recovered within required ranges. All samples that required dilution also diluted the surrogates out of range. When this happens there is no issue with sample data.

Sample WBGcs-071/401m-SDW2-SO sampled 1/12/09 Project # A9A130116 indicated in the laboratory narrative that one surrogate recovered low. However the surrogate that had poor recovery was not associated with the analytes of concern and thus there was no issue with surrogate recoveries.

2.1.10 Tunes

All tunes met method criteria.

2.1.11 Internal Standards

All internal standards met method criteria.

2.1.12 Manual Integration

Manual integration was used due to matrix interferences. A review of the chromatograms and the integration indicates that the laboratory followed good laboratory practice and integrated properly as needed. There is no issue with any manual integration and all resulting data is valid and complete.

2.2 Explosives (Water & Soils) Method 8330

2.2.1 Initial Calibration

The Initial calibration requires a minimum of five (5) standards and a blank. The calibration used by the laboratory consisted of a blank and as many as eight (8) standards. The curve should have a linear correlation coefficient of greater than 0.990 or an RSD or less than 15%. All of the calibration curves met method and USACE requirements.

2.2.2 Initial Calibration Verification (ICV)

An Initial Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies that the calibration curve is stable and meets the method requirements. If the recovery is outside of the upper or lower recovery range, the system must be recalibrated and checked before samples are analyzed. The ICV for all compounds met method requirements.

2.2.3 Continuing Calibration Verification (CCV)

A Continuing Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies the calibration curve is maintaining linearity and stability from drift over time. It is run every ten samples or less depending upon the number of samples in an analytical run. The analytical run must end with a CCV being run as the last sample in the run along with the Continuing Calibration Blank (CCB). If the recovery is over or below the upper and lower limits, all of the sample from the first passed CCV must be rerun. All CCVs passed.

2.2.4 Laboratory Control Sample Analysis (LCS)

The laboratory Control Sample provides a measure of the overall laboratory performance. It primarily measures the extraction/sample preparation process. If the LCS exceeds the upper or lower recovery range the sample is affected. Recoveries below the lower limit (LL) adversely affect non-detect compounds and positive hits. Recoveries above the upper limit (UL) adversely affect positive hits but not non-detect compounds. The laboratory establishes performance based recoveries of the LCS and bases the flagging criteria on such conditions. All compounds met method and USACE recovery criteria.

2.2.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

The MS/MSD for HMX, RDX, and 2,4,6-Trinitrotoluene in project #A8K240170. However, based upon the 4X rule, the concentration of the analytes in these compounds are all greater than 4 times the spiking concentration and thus they are not useful in the MS/MSD evaluation. All of the other MS/MSD data met method criteria, thus, there is no issue with data in these samples. In project #A8K070404 only RDX and 2,4,6-Trinitrotoluene were analyzed and the concentrations in the parent sample were greater than 4x the spiking level and were thus not usable. No other data was affected by this issue. Project #s A8L040346 and A8L150187 had all analyte MS/MSD recoveries within the ranges established and met method criteria. Thus no data is affected by the MS/MSD data in any of the above project. There was not sufficient sample to perform an MS/MSD on the water sample.

Sample DA2ss-132M-0953-SO in project # A9B100247 (sample # A9B100247-001) had high recoveries for the matrix spike (MS) for analytes 2,4-Dinitrotoluene and Nitroglycerin and high recovery for the matrix spike duplicate (MSD) for HMX. However, these analytes were not detected or below the reporting limit and thus the elevated bias had no effect on sample data.

2.2.6 Method Blank Analysis

The Method Blank (MB) were evaluated and found that all blanks were less than ½ the Method Reporting Limit. This indicates that there were no contaminants in the blank that could affect low level or non-detect samples. All blanks met method requirements.

2.2.7 MRL, MRL2

The MRL is a measure of the system to detect the compounds at the method reporting limit. The recovery range established is 70%-130%. The MRL and MRL2 passed for all compounds. Many of the compounds required manual integration. The laboratory followed proper protocol utilizing manual integration and there is no issue regarding the data.

2.2.8 Field Duplicate Analysis (Sample Precision)

All samples were either J flagged as estimated or non-detect so that no precision calculations could be done.

2.2.9 Surrogates

The surrogates provide assurance that the samples are purging and processing through the system in good order. Surrogate recoveries that are within the recovery range established indicates that the sample analysis process has no interferences or issues that would provide questionable results. All surrogates recovered within required ranges, however, some surrogates were diluted out in the dilution process. No samples were affected by the surrogate recoveries.

2.2.10 Manual Integrations

All manual integrations were reviewed and followed USEPA Guidelines.

2.3 Propellants (Soils) Method 8330 modified (Project # A9B100247 only) Nitroguanidine

2.3.1 Initial Calibration

The Initial calibration requires a minimum of five (5) standards and a blank. The calibration used by the laboratory consisted of a blank and as many as six (6) standards. The curve should have a linear correlation coefficient of greater than 0.990 or an RSD or less than 15%. All of the calibration curves met method and USACE requirements.

2.3.2 Initial Calibration Verification (ICV)

An Initial Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies that the calibration curve is stable and meets the method requirements. If the recovery is outside of the upper or lower recovery range, the system must be recalibrated and checked before samples are analyzed. The ICV for all compounds met method requirements.

2.3.3 Continuing Calibration Verification (CCV)

A Continuing Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies the calibration curve is maintaining linearity and stability from drift over time. It is run every ten samples or less depending upon the number of samples in an analytical run. The analytical run must end with a CCV being run as the last sample in the run along with the Continuing Calibration Blank (CCB). If the recovery is over or below the upper and lower limits, all of the sample from the first passed CCV must be rerun. All CCVs passed.

2.3.4 Laboratory Control Sample Analysis (LCS)

The laboratory Control Sample provides a measure of the overall laboratory performance. It primarily measures the extraction/sample preparation process. If the LCS exceeds the upper or lower recovery range the sample is affected. Recoveries below the lower limit (LL) adversely affect non-detect compounds and positive hits. Recoveries above the upper limit (UL) adversely affect positive hits but not non-detect compounds. The laboratory establishes performance based recoveries of the LCS and bases the flagging criteria on such conditions. All compounds met method and USACE recovery criteria.

2.3.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

The MS/MSD data met method criteria, thus, there is no issue with data in these samples.

2.3.6 Method Blank Analysis

The Method Blank (MB) were evaluated and found that all blanks were less than ½ the Method Reporting Limit. This indicates that there were no contaminants in the blank that could affect low level or non-detect samples. All blanks met method requirements.

2.3.7 MRL, MRL2

The MRL is a measure of the system to detect the compounds at the method reporting limit. The recovery range established is 70%-130%. The MRL and MRL2 passed for all compounds.

2.3.8 Surrogates

No surrogate is run for this method.

2.4 Propellants (Soils) Nitrocellulose General Chemistry (Project # A9B100247 only) 353.2

2.4.1 Initial Calibration

The Initial calibration requires a minimum of five (5) standards and a blank. The calibration used by the laboratory consisted of a blank and as many as five (5) standards. The curve should have a linear

correlation coefficient of greater than 0.995 or an RSD or less than 15%. All of the calibration curves met method and USACE requirements.

2.4.2 Initial Calibration Verification (ICV)

An Initial Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies that the calibration curve is stable and meets the method requirements. If the recovery is outside of the upper or lower recovery range, the system must be recalibrated and checked before samples are analyzed. The ICV for all compounds met method requirements.

2.4.3 Continuing Calibration Verification (CCV)

A Continuing Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies the calibration curve is maintaining linearity and stability from drift over time. It is run every ten samples or less depending upon the number of samples in an analytical run. The analytical run must end with a CCV being run as the last sample in the run along with the Continuing Calibration Blank (CCB). If the recovery is over or below the upper and lower limits, all of the sample from the first passed CCV must be rerun. All CCVs passed.

2.4.4 Laboratory Control Sample Analysis (LCS)

The laboratory Control Sample provides a measure of the overall laboratory performance. It primarily measures the extraction/sample preparation process. If the LCS exceeds the upper or lower recovery range the sample is affected. Recoveries below the lower limit (LL) adversely affect non-detect compounds and positive hits. Recoveries above the upper limit (UL) adversely affect positive hits but not non-detect compounds. The laboratory establishes performance based recoveries of the LCS and bases the flagging criteria on such conditions. All compounds met method and USACE recovery criteria.

2.4.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

The MS/MSD data did not meet method criteria. The MS recoveries were low and the MSD recoveries were within range but the RPDs were greater than 20%. This indicates that the sample spiked may have a significant interference. However no MSA study was done to confirm the interference and all samples were either below the reporting limit or non-detect. Thus no further judgment can be made regarding the samples.

2.4.6 Method Blank Analysis

The Method Blank (MB) were evaluated and found that all blanks were less than ½ the Method Reporting Limit. This indicates that there were no contaminants in the blank that could affect low level or non-detect samples. All blanks met method requirements.

2.4.7 MRL, MRL2

The MRL is a measure of the system to detect the compounds at the method reporting limit. The recovery range established is 70%-130%. The MRL and MRL2 passed for all compounds.

3.0 Metals

3.1 Method 6010B Metals (Soils) (Project # A9B100247 only)

3.1.1 Initial Calibration

The Initial calibration requires a minimum of three (3) standards and a blank. The calibration used by the laboratory consisted of a blank and as many as three (3) standards. The curve should have a linear correlation coefficient of greater than 0.995. All of the calibration curves met method and USACE requirements.

3.1.2 Initial Calibration Verification (ICV)

An Initial Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies that the calibration curve is stable and meets the method requirements. If the recovery is outside of the upper or lower recovery range,

the system must be recalibrated and checked before samples are analyzed. The ICV for all metals met method requirements.

3.1.3 Continuing Calibration Verification (CCV)

A Continuing Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies the calibration curve is maintaining linearity and stability from drift over time. It is run every ten samples or less depending upon the number of samples in an analytical run. The analytical run must end with a CCV being run as the last sample in the run along with the Continuing Calibration Blank (CCB). If the recovery is over or below the upper and lower limits, all of the sample from the first passed CCV must be rerun. All CCVs passed.

3.1.4 Laboratory Control Sample Analysis (LCS)

The laboratory Control Sample provides a measure of the overall laboratory performance. It primarily measures the extraction/sample preparation process. If the LCS exceeds the upper or lower recovery range the sample is affected. Recoveries below the lower limit (LL) adversely affect non-detect compounds and positive hits. Recoveries above the upper limit (UL) adversely affect positive hits but not non-detect compounds. The laboratory establishes performance based recoveries of the LCS and bases the flagging criteria on such conditions. All metals met method and USACE recovery criteria.

3.1.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

The MS/MSD data did not meet method criteria. The MS recovery for Calcium was low thus indicating a possible matrix interference. However, no matrix spike duplicate was run nor method of standard additions to verify matrix issues. Thus the MS data is of little value. It is the professional judgment of the data validator that the calcium data be estimated for the sample. Thus no further judgment can be made regarding the other samples.

3.1.6 Method Blank Analysis

The Method Blank (MB) were evaluated and found that all blanks were less than ½ the Method Reporting Limit. The laboratory uses a B code to indicate that the method blank had a possible hit but is below the reporting limit. The data validator has removed all B codes and replaced them with J codes if the sample hit is below the reporting limit and completely removed the B code if the sample data is above the reporting limit. All blanks met method requirements.

3.1.7 MRL, MRL2

The MRL is a measure of the system to detect the compounds at the method reporting limit. The recovery range established is 70%-130%. The MRL and MRL2 passed for all metals.

3.1.8 ICS A & B

The ICS A&B met all method and validation criteria.

3.1.9 Serial Dilution

The serial Dilution failed for Cobalt and Lead which indicates a possible matrix interference. However a matrix interference should be verified by another method such as Method of Standard Additions (MSA). Since no verification has been done, it is the professional judgment of the data validator that the serial dilution data has little value.

3.1.10 Sample Duplicate

The sample duplicate data indicates that there are some heterogeneous issues with the sample. Since the samples are soils, this is not unusual and the high RPD should be noted but the data is not adversely affected by this issue.

3.1.11 J Flag on samples that are above the Reporting Limit

The laboratory issues a J flag for all metals that have been found above the method detection limit but below the Reporting limit in the Method Blank. This flag is added regardless of concentration found in the sample. This type of flagging should be evaluated carefully as it creates an issue where none should be. If the sample concentration is at least 10 times greater than the method blank concentration, the method blank

has no affect on the accuracy of the data. It is the professional judgment of the data validator that such flagging should be removed, thus all such flags have been removed by the data validator.

3.2 Method 7471A Mercury (Soils) (Project # A9B100247 only)

3.2.1 Initial Calibration

The Initial calibration requires a minimum of five (5) standards and a blank. The calibration used by the laboratory consisted of a blank and as many as five (5) standards. The curve should have a linear correlation coefficient of greater than 0.995. All of the calibration curves met method and USACE requirements.

3.2.2 Initial Calibration Verification (ICV)

An Initial Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies that the calibration curve is stable and meets the method requirements. If the recovery is outside of the upper or lower recovery range, the system must be recalibrated and checked before samples are analyzed. The ICV met method requirements.

3.2.3 Continuing Calibration Verification (CCV)

A Continuing Calibration Verification sample must recover within the range of 90-100% of the true value. This standard is usually near the mid point of the calibration curve. It verifies the calibration curve is maintaining linearity and stability from drift over time. It is run every ten samples or less depending upon the number of samples in an analytical run. The analytical run must end with a CCV being run as the last sample in the run along with the Continuing Calibration Blank (CCB). If the recovery is over or below the upper and lower limits, all of the sample from the first passed CCV must be rerun. All CCVs passed.

3.2.4 Laboratory Control Sample Analysis (LCS)

The laboratory Control Sample provides a measure of the overall laboratory performance. It primarily measures the extraction/sample preparation process. If the LCS exceeds the upper or lower recovery range the sample is affected. Recoveries below the lower limit (LL) adversely affect non-detect compounds and positive hits. Recoveries above the upper limit (UL) adversely affect positive hits but not non-detect compounds. The laboratory establishes performance based recoveries of the LCS and bases the flagging criteria on such conditions. The LCS met method and USACE recovery criteria.

3.2.5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

The MS/MSD data met method criteria.

3.2.6 Method Blank Analysis

The Method Blank (MB) met method criteria.

3.2.7 MRL, MRL2

The MRL is a measure of the system to detect the compounds at the method reporting limit. The recovery range established is 70%-130%. The MRL and MRL2 passed.

3.2.8 Sample Duplicate

The sample duplicate data met method criteria.

4.0 Representativeness Evaluation

Representativeness is a qualitative evaluation of whether the data represent actual environmental conditions. Representativeness was evaluated using holding time criteria, which reflect the length of time after sample collection that a sample or extract remains representative of the environmental conditions. Depending on the analysis, either one or two holding times were evaluated. For those analysis that do not include a sample extraction, only one holding time was evaluated: the length of time between sample collection and analysis. For analysis that require

sample extraction prior to analysis, two holding times were evaluated: The length of time from sampling to extraction and the length of time from extraction to analysis. Holding times were compared to standard method-specific holding times accepted by the USEPA. All holding times that were within acceptance criteria are considered representative. Those holding times outside of USEPA acceptance criteria are qualitatively evaluated to determine their effect on sample representativeness.

Representativeness was also evaluated by analysis of laboratory method blanks which were used to identify sources of contamination not associated with environmental conditions.

4.1 Sample Holding Times

All holding times met method requirements.

4.2 Sample Receipt and Chain of Custody

The sample temperature was not taken in project number A8K070404 and evidence of custody seals is an issue. A note was added later to the TestAmerica Cooler Receipt form/Narrative confirming that there was no temperature taken but there were custody seals. The note was not dated. The form does indicate that the samples were received in wet ice which indicates that the samples were cooled.

For project # A8K240170 the temperature is not clear. At first glance it appears to be 30C which would not be possible since the log indicates that the samples were received in wet ice. A temperature of 3.0 C is noted in the narrative and that makes sense.

Since the samples are soils, temperature is usually not an issue. Based upon other associated information, there is no issue with temperature. An explanation is attached in Appendix D.

There were no other issues with other project numbers.

4.3 Usability and Comparability

Usability of data was evaluated by assuring that all of the analytical requests were met, samples that were received in the proper condition, and all analysis were performed within the appropriate holding times. Additionally, all quality control and quality assurance measures were taken to assure accurate and useable data. Some data was rejected due to the LCS recovery in the VOA fractions. Historical data may verify that the non-detect nature of the samples may be valid.

An overview of the validation findings are presented in tabular form in Attachment C. The suggested data validation flags are listed below and are defined as follows:

R	Quality Control (QC) indicated the data is not usable.
J	Indicates an estimated value.
I	A matrix affect was present.
T	The analyte has been "tentatively identified" and the associated numerical value represents its approximate concentration using GCMS protocols.
U	Indicates the compound or analyte was analyzed for, but not detected at or above the stated limit.
UJ	Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
B	The compound was also detected in the method blank.*

Appendix A
Sample Data Summary Table

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Table SVA-1 Summary of Analytical Results

Semi Volatiles
PAH only

Field Sample ID:	WBGcs-P61Am-BOT (E)-SO			WBGcs-P61Am-BOT (W)-SO		
Laboratory ID:	A8K070404-001			A8K070404-002		
Date Sampled:	11/6/08			11/6/08		
Date Received:	11/7/08			11/7/08		
Date Extracted:	11/10/08			11/10/08		
Date Analyzed:	11/12/08			11/12/08		
Holding Time	7 days			7 days		
Required Hold Time	14 DAYS			14 DAYS		
Semi-Volatiles		Lab	VF		Lab	VF
Method 8270C	Result	Flag	Flag	Result	Flag	Flag
Benzo(a)anthracene	4300			1400		
Benzo(b)fluoranthene	5400			1500		
Benzo(a)pyrene	3900			1200		
Indeno(1,2,3-cd)pyrene	2300			660		
Dibenzo(a,h)anthracene	800			250		
	ug/Kg			ug/Kg		

Field Sample ID:	WBGcs-P70m-SFC-SO			WBGcs-P61m-Sdw-SO			WBGcs-P61m-SDW-DUP			WBGcs-P61m-BOT-SO		
Laboratory ID:	A8K240170-001			A8K240170-002			A8K240170-003			A8K240170-004		
Date Sampled:	11/24/08			11/24/08			11/24/08			11/24/08		
Date Received:	11/24/08			11/24/08			11/24/08			11/24/08		
Date Extracted:	11/26/08			11/26/08			11/26/08			11/26/08		
Date Analyzed:	12/2/08			12/2/08			12/2/08			12/2/08		
Holding Time	8 days			8 days			8 days			8 days		
Required Hold Time	14 DAYS			14 DAYS			14 DAYS			14 DAYS		
Semi-Volatiles		Lab	VF		Lab	VF		Lab	VF		Lab	VF
Method 8270C	Result	Flag	Flag	Result	Flag	Flag	Result	Flag	Flag	Result	Flag	Flag
Benzo(a)anthracene	U			210			740			1400		
Benzo(b)fluoranthene	310			1500			4700			7800		
Benzo(a)pyrene	480			1600			4500			7800		
Indeno(1,2,3-cd)pyrene	310			1300			3700			6700		
Dibenzo(a,h)anthracene	180			740			2000			3400		
	ug/Kg			ug/Kg			ug/Kg			ug/Kg		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

0.5

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Table SVA-1 Summary of Analytical Results

Semi Volatiles
PAH only

Field Sample ID:	WBGcs-P61m-BERM2-SO		
Laboratory ID:	A8L040346-001		
Date Sampled:	12/4/08		
Date Received:	12/4/08		
Date Extracted:	12/5/08		
Date Analyzed:	12/8/08		
Holding Time	5 days		
Required Hold Time	14 DAYS		
Semi-Volatiles		Lab	VF
Method 8270C	Result	Flag	Flag
Benzo(a)anthracene	U		
Benzo(b)fluoranthene	96		
Benzo(a)pyrene	120		
Indeno(1,2,3-cd)pyrene	86		
Dibenzo(a,h)anthracene	64		
	ug/Kg		

Field Sample ID:	WBGcs-071/401m-SDW2-SO			WBGcs-071/401m-FLR2-SO		
Laboratory ID:	A9A130116-001			A9A130116-002		
Date Sampled:	1/12/09			1/12/09		
Date Received:	1/13/09			1/13/09		
Date Extracted:	1/14/09			1/14/09		
Date Analyzed:	1/16/09			1/16/09		
Holding Time	4days			4days		
Required Hold Time	14 DAYS			14 DAYS		
Semi-Volatiles		Lab	VF		Lab	VF
Method 8270C	Result	Flag	Flag	Result	Flag	Flag
Benzo(a)anthracene	900			31		
Benzo(b)fluoranthene	1600			40		
Benzo(a)pyrene	1000			33		
Indeno(1,2,3-cd)pyrene	750			22		
Dibenzo(a,h)anthracene	240			U		
	ug/Kg			ug/Kg		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

Purves Environmental

Data Validation Specialists

Table EA-1 Summary of Analytical Results

Explosives

Soils

Field Sample ID:	WBGcs-P61Am-BOT (E)-SO			WBGcs-P61Am-BOT (W)-SO			WBGcs-071/401m-FLR-SO			WBGcs-071/401m-SDW-SO		
Laboratory ID:	A8K070404-001			A8K070404-002			A8K070404-003			A8K070404-004		
Date Sampled:	11/6/08			11/6/08			11/6/08			11/6/08		
Date Received:	11/7/08			11/7/08			11/7/08			11/7/08		
Date Prepared:	11/11/08			11/11/08			11/11/08			11/11/08		
Date Analyzed:	11/13/08			11/13/08			11/13/08			11/13/08		
Holding Time	8 days			8 days			8 days			8 days		
Required Hold Time	14 DAYS			14 DAYS			14 DAYS			14 DAYS		
Compound	Result	LF	VF	Results	LF	VF	Results	LF	VF	Results	LF	VF
2,4,6-Trinitrotoluene	12			2.7			1500			1600		
RDX	U			0.089	J	J	91			570		
	mg/Kg			mg/Kg			mg/Kg			mg/Kg		

Water

Field Sample ID:	WBGcs-071/401m-SDW-ER		
Laboratory ID:	A8K070404-004		
Date Sampled:	11/6/08		
Date Received:	11/7/08		
Date Prepared:	11/12/08		
Date Analyzed:	11/12/08		
Holding Time	7 days		
Required Hold Time	14 DAYS		
Compound	Result	LF	VF
2,4,6-Trinitrotoluene	U		
RDX	U		
	ug/L		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

017

Purves Environmental

Data Validation Specialists

Table EA-1 Summary of Analytical Results

Explosives

Soils

Field Sample ID:	WBGcs-P70m-SFC-SO			WBGcs-P61m-Sdw-SO			WBGcs-P61m-SDW-DUP			WBGcs-P61m-BOT-SO		
Laboratory ID:	A8K240170-001			A8K240170-002			A8K240170-003			A8K240170-004		
Date Sampled:	11/24/08			11/24/08			11/24/08			11/24/08		
Date Received:	11/24/08			11/24/08			11/24/08			11/24/08		
Date Prepared:	11/26/08			11/26/08			11/26/08			11/26/08		
Date Analyzed:	11/29/08			11/29/08			11/29/08			11/29/08		
Holding Time	6 days			6 days			6 days			6 days		
Required Hold Time	14 DAYS			14 DAYS			14 DAYS			14 DAYS		
Compound	Result	LF	VF	Results	LF	VF	Results	LF	VF	Results	LF	VF
PETN	U			U			U			U		
Nitroglycerin	U			U			0.15	J	J	7.8		
2-Amino-4,6-Dinitrotoluene	0.36			0.26	J	J	0.26	J	J	0.7		
4-Amino-2,6-Dinitrotoluene	0.77			0.17	J	J	0.17	J	J	0.7	PG	
1,3-Dinitrobenzene	U			0.26	J	J	U			U		
2,4-Dinitrotoluene	U			0.027	J	J	U			0.13	J	J
2,6-Dinitrotoluene	U			U			U			U		
HMX	4.3			0.16	J	J	0.14	J	J	1		
Nitrobenzene	U			U			0.17	J	J	0.26		
2-Nitrotoluene	U			U			U			U		
4-Nitrotoluene	U			U			U			U		
3-Nitrotoluene	U			U			U			U		
RDX	18			0.2	J	J	0.21	J	J	1.8		
Tetryl	U			U			U			U		
1,3,5-Trinitrobenzene	U			0.036	J	J	0.023	J	J	5.2		
2,4,6-Trinitrotoluene	12			0.38			0.37	PG		0.56		
	mg/Kg			mg/Kg			mg/Kg			mg/Kg		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

11-29-08

Purves Environmental

Data Validation Specialists

Table EA-1 Summary of Analytical Results

Explosives

Soils

Field Sample ID:	WBGcs-P61m-BERM2-SO			WBGcs-071/401m-FLR2-SO			WBGcs-071/401m-SDW2-SO		
Laboratory ID:	A8L040346-001			A8L150187-001			A8L150187-002		
Date Sampled:	12/4/08			12/15/08			12/15/08		
Date Received:	12/4/08			12/15/08			12/15/08		
Date Prepared:	12/8/08			12/17/08			12/17/08		
Date Analyzed:	12/9/08			12/18/08			12/18/08		
Holding Time	6 days			4 days			4 days		
Required Hold Time	14 DAYS			14 days			14 days		
Compound	Result	LF	VF	Results	LF	VF	Results	LF	VF
PETN	U			U			U		
Nitroglycerin	U			U			U		
2-Amino-4,6-Dinitrotoluene	U			0.72	J	J	U		
4-Amino-2,6-Dinitrotoluene	U			0.87	J	J	1.2	J	J
1,3-Dinitrobenzene	U			U			U		
2,4-Dinitrotoluene	U			U			0.54	J	J
2,6-Dinitrotoluene	U			U			U		
HMX	0.24	J	J	11			6.3		
Nitrobenzene	U			U			U		
2-Nitrotoluene	U			U			U		
4-Nitrotoluene	U			U			U		
3-Nitrotoluene	U			U			U		
RDX	0.3			43			15		
Tetryl	U			U			U		
1,3,5-Trinitrobenzene	U			0.69	J	J	0.49	J	J
2,4,6-Trinitrotoluene	0.078	J	J	44			110		
	mg/Kg			mg/Kg			mg/Kg		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

019

Purves Environmental

Data Validation Specialists

Table EA-1 Summary of Analytical Results

Explosives

Soils

Field Sample ID:	DA2ss-132M-0953-SO			DA2ss-133M-0954-SO			DA2ss-134M-0955-SO			DA2ss-135M-0956-SO		
Laboratory ID:	A9B100247-001			A9B100247-002			A9B100247-003			A9B100247-004		
Date Sampled:	2/10/09			2/10/09			2/10/09			2/10/09		
Date Received:	2/10/09			2/10/09			2/10/09			2/10/09		
Date Prepared:	2/16/09			2/16/09			2/16/09			2/16/09		
Date Analyzed:	2/19/09			2/19/09			2/19/09			2/19/09		
Holding Time	6 days			6 days			6 days			6 days		
Required Hold Time	14 DAYS			14 days			14 days			14 days		
Compound	Result	LF	VF	Results	LF	VF	Results	LF	VF	Results	LF	VF
PETN	U			U			U			U		
Nitroglycerin	U			U			U			U		
2-Amino-4,6-Dinitrotoluene	U			U			U			U		
4-Amino-2,6-Dinitrotoluene	0.043	J	J	0.037	J	J	0.029	J	J	0.044	J	J
1,3-Dinitrobenzene	U			U			U			U		
2,4-Dinitrotoluene	U			U			U			U		
2,6-Dinitrotoluene	U			U			U			U		
HMX	0.037	J	J	0.17	J	J	0.041	J	J	U		
Nitrobenzene	U			U			U			U		
2-Nitrotoluene	U			U			U			U		
4-Nitrotoluene	U			U			U			U		
3-Nitrotoluene	U			U			U			U		
RDX	U			U			U			U		
Tetryl	U			U			U			2.1		
1,3,5-Trinitrobenzene	U			U			U	J	J	0.047	J	J
2,4,6-Trinitrotoluene	U			0.025	J	J	U			U		
	mg/Kg			mg/Kg			mg/Kg			mg/Kg		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

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Data Validation Specialists

Table PA-1 Summary of Analytical Results
Method 353.2 General Chemistry

Propellants

Soils

Field Sample ID:	DA2ss-132M-0953-SO			DA2ss-133M-0954-SO			DA2ss-134M-0955-SO			DA2ss-135M-0956-SO		
Laboratory ID:	A9B100247-001			A9B100247-002			A9B100247-003			A9B100247-004		
Date Sampled:	2/10/09			2/10/09			2/10/09			2/10/09		
Date Received:	2/10/09			2/10/09			2/10/09			2/10/09		
Date Prepared:	2/19/09			2/19/09			2/19/09			2/19/09		
Date Analyzed:	2/20/09			2/20/09			2/20/09			2/20/09		
Holding Time	10 days			10 days			10 days			10 days		
Required Hold Time	14 DAYS			14 days			14 days			14 days		
Compound	Result	LF	VF	Results	LF	VF	Results	LF	VF	Results	LF	VF
Nitrocellulose	U			0.93	J	J	1.2	J	J	U		

Method 8330 Modified

Field Sample ID:	DA2ss-132M-0953-SO			DA2ss-133M-0954-SO			DA2ss-134M-0955-SO			DA2ss-135M-0956-SO		
Laboratory ID:	A9B100247-001			A9B100247-002			A9B100247-003			A9B100247-004		
Date Sampled:	2/10/09			2/10/09			2/10/09			2/10/09		
Date Received:	2/10/09			2/10/09			2/10/09			2/10/09		
Date Prepared:	2/16/09			2/16/09			2/16/09			2/16/09		
Date Analyzed:	2/19/09			2/19/09			2/19/09			2/19/09		
Holding Time	9 days			9 days			9 days			9 days		
Required Hold Time	14 DAYS			14 days			14 days			14 days		
Compound	Result	LF	VF	Results	LF	VF	Results	LF	VF	Results	LF	VF
Nitroguanidine	U			0.021	J	J	U			0.029	J	J

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

021

Purves Environmental

Data Validation Specialists

Table MA-1 Summary of Analytical Results

RCRA 8 Metals

Field Sample ID:	DA2ss-132M-0953-SO			DA2ss-133M-0954-SO			DA2ss-134M-0955-SO			DA2ss-135M-0956-SO		
Laboratory ID:	A9B100247-001			A9B100247-002			A9B100247-003			A9B100247-004		
Date Sampled:	2/10/09			11/6/08			11/6/08			11/6/08		
Date Received:	2/10/09			11/7/08			11/7/08			11/7/08		
Date Analyzed:	2/11/09			11/12/08			11/12/08			11/12/08		
Holding Time	1 days			7 days			7 days			7 days		
Required Hold Time	180 days			180 days			180 days			180 days		
Metals	Lab	VF		Lab	VF		Lab	VF		Lab	VF	
Method 6010B	Result	Flag	Flag	Result	Flag	Flag	Result	Flag	Flag	Result	Flag	Flag
Aluminum	8300			7570			8950			9030		
Antimony	0.74	B	J	U			0.43	B	J	0.46	B	J
Arsenic	14.5			13.6			14			15.5		
Barium	82.3	J		61	J		77.1	J		87.1	J	
Beryllium	0.49	B	J	0.47	B	J	0.54	B	J	0.57	B	J
Cadmium	1.4			1.5			1.3			1.4		
Calcium	9510	J		7180	J		9770	J		6240	J	
Chromium	18.5			18.5			21.9			29.7		
Cobalt	8.7	E	E	8.2			8.7			9.8		
Copper	113			93.3			87.8			95.1		
Iron	21600			22100			21200			23300		
Lead	32.1	E	E	28			79.2			63.1		
Magnesium	3690	J	J	3270	J	J	3720	J		3970	J	J
Manganese	353	J		383	J		430	J		419	J	
Nickel	25.5			25.5			23.4			29.2		
Potassium	1010	J		914	J		1240	J		1110	J	
Selenium	U			0.6	B	J	U			U		
Silver	U			1.1	B	J	U			U		
Sodium	U			U			U			U		
Thallium	U			U			U			U		
Vanadium	12.9			12.1			14			14.2		
Zinc	193			164			169			177		
	mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Method 7471A	Lab	VF		Lab	VF		Lab	VF		Lab	VF	
Result	Flag	Flag		Result	Flag	Flag	Result	Flag	Flag	Result	Flag	Flag
Date Analyzed:	2/16/09			2/16/09			2/16/09			2/16/09		
Mercury	0.21			0.21			0.26			0.21		
	mg/Kg			mg/Kg			mg/Kg			mg/Kg		

B = Result is above the Method Detection Limit (MDL) but below the Reporting Limit (RL)- RESULT IS ESTIMATED

G = Elevated reporting limit because all analytes were diluted DUE TO MATRIX INTERFERENCE

J = RESULT IS ESTIMATED

PG = The percent difference between the original and confirmation analysis is greater than 40%

Q = The reporting limit is elevated due to dilution of sample.

RLA = The reporting limit for the analyte is elevated due to Dilution.

U = Result is below the MDL or ND = Not Detected

VF=Validator flag

E= Failed serial dilution

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5/6/09 ref. 022

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Appendix B
Chain of Custody Summary Table

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Data Validation Specialists

Chain of Custody Summary Table

Field Sample ID:	WBGcs-P61Am-BOT (E)-SO	WBGcs-P61Am-BOT (W)-SO	WBGcs-071/401m-FLR-SO	WBGcs-071/401m-SDW-SO
Laboratory ID:	A8K070404-001	A8K070404-002	A8K070404-003	A8K070404-004
Date Sampled:	11/6/08	11/6/08	11/6/08	11/6/08
Date Received:	11/7/08	11/7/08	11/7/08	11/7/08
Explosives	X	X	X	X
Semi-Volatiles	X	X		

Field Sample ID:	WBGcs-P70m-SFC-SO	WBGcs-P61m-Sdw-SO	WBGcs-P61m-SDW-DUP	WBGcs-P61m-BOT-SO
Laboratory ID:	A8K240170-001	A8K240170-002	A8K240170-003	A8K240170-004
Date Sampled:	11/24/08	11/24/08	11/24/08	11/24/08
Date Received:	11/24/08	11/24/08	11/24/08	11/24/08
Explosives	X	X	X	X
Semi-Volatiles	X	X	X	X

Field Sample ID:	WBGcs-P61m-BERM2-SO	WBGcs-071/401m-FLR2-SO	WBGcs-071/401m-SDW2-SO
Laboratory ID:	A8L040346-001	A8L150187-001	A8L150187-002
Date Sampled:	12/4/08	12/15/08	12/15/08
Date Received:	12/4/08	12/15/08	12/15/08
Explosives	X	X	X
Semi-Volatiles	X		

Field Sample ID:	WBGcs-071/401m-SDW2-SO	WBGcs-071/401m-FLR2-SO
Laboratory ID:	A9A130116-001	A9A130116-002
Date Sampled:	1/12/09	1/12/09
Date Received:	1/13/09	1/13/09
Semi-Volatiles	X	X

Field Sample ID:	DA2ss-132M-0953-SO	DA2ss-133M-0954-SO	DA2ss-134M-0955-SO	DA2ss-135M-0956-SO
Laboratory ID:	A9B100247-001	A9B100247-002	A9B100247-003	A9B100247-004
Date Sampled:	2/10/09	2/10/09	2/10/09	2/10/09
Date Received:	2/10/09	2/10/09	2/10/09	2/10/09
Explosives	X	X	X	X
Propellants	X	X	X	X
TAL Metals	X	X	X	X

Water

Field Sample ID:	WBGcs-071/401m-SDW-ER
Laboratory ID:	A8K070404-004
Date Sampled:	11/6/08
Date Received:	11/7/08
Explosives	X

5/6/09
6 and 7nd

Appendix C

All Check Lists

Semi-Volatile Organic Analysis Checklist Method 8270C

Project Name: WBG-RD-RA Ravenna Arsenal, Ravenna, Ohio

Laboratory: Test America North Canton, Ohio

Sample Delivery Group(s): **A8K070404, A8240170, A8L040346, A9A130116**

	Yes	No
Holding Time:		
Were Samples extracted within holding times?	Yes	
Were Samples analyzed within holding times?	Yes	
Tune		
Was DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	Yes	
Was mass assignment based on m/z 198?	Yes	

Indicate if DFTPP ion abundance relative to m/z 198 base peak met the ion abundance criteria.

m/z	Acceptance Criteria	Yes	No
51	30-60%	Yes	
68	< 2% mass 69	Yes	
70	< 2% mass 69	Yes	
127	40-60%	Yes	
197	<1%	Yes	
198	100% Base Peak	Yes	
199	5-9%	Yes	
275	10-30%	Yes	
365	>1%	Yes	
441	present but < mass 443	Yes	
442	>40%	Yes	
443	17-23% of mass 442	Yes	

Initial Calibration	Five calibration standard minimum	Yes	
	Was the linear model applied?	Yes	
	Was the quadratic model applied as needed?	Yes	

System Performance Check Compounds (SPCC)

Did they meet the minimum mean responsfactor?

N-nitroso-di-n-propylamine	Yes	
Hexachlorocyclopentadiene	Yes	
2,4-dinitrophenol	Yes	
4-nitrophenol	Yes	

Calibration Check Compounds (CCC)

Did the RSD meet the criteria of < 30% for each compound?

Base/Neutral Fraction:

Acenaphthene	Yes	
1,4-Dichlorobenzene	Yes	
Hexachlorobutadiene	Yes	
Diphenylamine	Yes	
Di-n-octylphthalate	Yes	
Fluoranthene	Yes	
Benzo(a)pyrene	Yes	

Acid Fraction

4-Chloro-3-methylphenol	Yes	
2,4-Dichlorophenol	Yes	
2-Nitrophenol	Yes	
Phenol	Yes	
Pentachlorophenol	Yes	
2,4,6-Trichlorophenol	Yes	

Semi-Volatile Organic Analysis Checklist Method 8270C (Cont pg 2)

Remaining Target Analytes

Are the RSDs <15% for the remaining target analytes	Yes	
---	-----	--

If No are the mean RSDs < 15%
or r >0.99 with a mean RSD < 15% with a maximum RSD< 30%?

Manual Integration

Was manual integration "M" performed?	Yes	
---------------------------------------	-----	--

Manual integration was performed within the method guidelines and was required under the operating conditions.

QCMDL

Was MDL check performed?	Yes	
--------------------------	-----	--

QCMRL

Was QCMRL run at the beginning and end of every daily sequence or every 12 hours?	Yes	
---	-----	--

Was QCMRL between 70-130% recovery	Yes	
------------------------------------	-----	--

For the non-contaminants of concern, was the QCMRL between 50-150%	Yes	
--	-----	--

Initial Calibration Verification (ICV)

Is the mid level (2nd source) recovery within 70-130% for contaminants of concern?	Yes	
--	-----	--

Is the mid level (2nd source) recovery within 50-150% for non-contaminants of concern?	Yes	
--	-----	--

Continuing Calibration Verification (CCV)

Was CCV run every 12 hours?	Yes	
-----------------------------	-----	--

Did SPCC meet the minimum mean response factor?

N-nitroso-di-n-propylamine	Yes	
Hexachlorocyclopentadiene	Yes	
2,4-dinitrophenol	Yes	
4-nitrophenol	Yes	

Did the CCC meet the minimum requirements (D< 20%)

Base/Neutral Fraction:

Acenaphthene	Yes	
1,4-Dichlorobenzene	Yes	
Hexachlorobutadiene	Yes	
Diphenylamine	Yes	
Di-n-octylphthalate	Yes	
Fluoranthene	Yes	
Benzo(a)pyrene	Yes	

Acid Fraction

4-Chloro-3-methylphenol	Yes	
2,4-Dichlorophenol	Yes	
2-Nitrophenol	Yes	
Phenol	Yes	
Pentachlorophenol	Yes	
2,4,6-Trichlorophenol	Yes	

Primary Evaluation: Was the mean drift < 20% from the initial Calibration?	Yes	
--	-----	--

Semi-Volatile Organic Analysis Checklist Method 8270C (Cont pg 3)

Maximum allowable drift for each target analyte s <30% when D < 20%?	Yes	
--	-----	--

Sample Analysis

Was the RRT of an identified componet within +/- 0.06 RRT units of the RRT f the standard componet.	Yes	
---	-----	--

Did the abundanceof ions l the sample spectra agree within 30% of the major ions (> 10% of the base peak) in the standard spectra	Yes	
---	-----	--

Were internal standards within the QC limits of -50% to +200%	Yes	
---	-----	--

Sample Quality Control

Method Blank Were Target analytes < 1/2 the MRL for the Method Blank	Yes	
---	-----	--

LCS Were the % recoveries for the LCS within the limits?	Yes	
---	-----	--

MS/MSD Were percent recovries within control limits?		No
---	--	----


Were RPD within control limits?	Yes	
---------------------------------	-----	--

Surrogates

Are surrogate recoveries within QC limits	Yes	
---	-----	--

Comments Some surrogates were diluted out. All other surrogates met method requirements
MS/MSDs failed due to high analyte concentrations or dilution. The A9A130116-001 sample MS/MSD both failed.
Since not follow up was performed the MS/MSD data is irrelavent.

Manual integration follow good laboratory protocol.

Signed: 
William W. Purves

Nitroaromatic & Nitramine Data Analysis (Explosive Residues) Checklist

Project Name: WBG-RD-RA Ravenna Arsenal, Ravenna, Ohio

Laboratory: Test America North Canton, Ohio

Sample Delivery Group: **A8K070404, A8240170, A8L040346, A8L150187, A9B100247**

	Yes	No
Holding Time: Were Samples extracted within holding times?	Yes	
Were Samples analyzed within holding times?	Yes	

Initial Calibration Five calibration standard minimum	Yes	
--	-----	--

Manual Integration Was manual integration "M" performed?	Yes	
---	-----	--

QCMDL Was MDL check performed?	Yes	
---------------------------------------	-----	--

QCMRL Was QCMRL run at the beginning and end of every daily sequence or every 12 hours?	Yes	
--	-----	--

Was the % "D" <30%	Yes	
--------------------	-----	--

Intital Calibration Verification (ICV)

Is the mid level (2nd source) recovery within 85-115%	Yes	
---	-----	--

Continuing Calibration Verification (CCV)

Was CCV run at the beginning of the day or run every 12 hours?	Yes	
--	-----	--

Was the midpoint sample (CCV) conducted every ten samples or every 12 hours?	Yes	
--	-----	--

Was the midpoint sample (CCV) conducted at the end of the day/run.	Yes	
--	-----	--

Did the CCV meet the minimum requirements (D<15% with a maximum D < 20% for a specific compound.	Yes	
--	-----	--

Sample Analysis

Was the RRT of an identified componet within the required retention time window.	Yes	
--	-----	--

Were all identified hits, above the initial calibration curve diluted and reanalyzed	Yes	
--	-----	--

Were all identified compounds confirmed on a second column	Yes	
--	-----	--

Was all RPD of target analyte confirmation <40%	Yes	
---	-----	--

Was there a shoulder on the 2,4,6-TNT peak?		No
---	--	----

Sample Quality Control

Method Blank Were Target analytes < 1/2 the MRL for the Method Blank	Yes	
---	-----	--

LCS Were the % recoveries for the LCS within the limits?	Yes	
---	-----	--

Nitroaromatic & Nitramine Data Analysis (Explosive Residues) Checklist (cont pg 2)

MS/MSD

Were percent recoveries within control limits?		No
--	--	----

Were RPD within control limits?	Yes	
---------------------------------	-----	--

Surrogates

Are surrogate recoveries within QC limits		No
---	--	----

Comments

Some surrogates were diluted out. All other surrogates met method requirements
MS/MSDs failed due to high analyte concentrations or dilution. There were no MS/MSD issues.
Manual integration follow good laboratory protocol.



ICP Metals Analysis (6010) Check List

Project Name: WBG-RD-RA Ravenna Arsenal, Ravenna, Ohio

Laboratory: Test America North Canton, Ohio

Sample Delivery Group: **A9A130116**

	Yes	No
Holding Time:		
Samples were analyzed within holding time (6-Months)	Yes	
Initial Calibration		
One calibration standard and blank	Yes	
Two calibration standard and blank		No
Three calibration standard and blank	Yes	
R > 0.995	Yes	

Comment: Method 6010B allows for calibrations from one or more calibration standards.

QC Method Detection Limit (MDL)

MDL Check	Yes	
-----------	-----	--

QC Method Reporting Limit (MRL)

MRL Check at the beginning	Yes	
MRL Check every 12 hours	Yes	

Initial Calibration Verification (ICV)

%Recovery 90-110%	Yes	
-------------------	-----	--

Initial Calibration Blank (ICB)

Blank Analytes <1/2 MRL	Yes	
-------------------------	-----	--

Interelement Check Standard

ICS-A run at the beginning	Yes	
ICS-AB results within 80-120% recovery	Yes	

Continuing Calibration Blank (CCB)

CCB every ten samples	Yes	
CCB at end of run	Yes	
CCB analytes < 1/2 MRL	Yes	

Continuing Calibration Verification (CCV)

CCV every ten samples	Yes	
CCV at end of run	Yes	
CCV 90-110% Recovery	Yes	

Sample Analysis

Samples greater than linear range diluted	Yes	
---	-----	--

Sample QC

Method Blank <1/2 MRL	Yes	
LCS recoveries within required limits	Yes	
MS/MSD recoveries within required limits		No
MD RPD within control limits		

Comments**Method, Initial Calibration and Continuing Calibration Blanks**

Some analytes in the Method blank had values above the MDL but less than 1/2 the RL. None of the blanks affected any sample data.

Matrix Spike/Matrix Spike Dilution

Only a Matrix spike was run along with a sample duplicate. A true evaluation of the MS/MSD can not be completed under such conditions.

ICP Metals Analysis (6010) Check List (continued pg 2)

Serial Dilution

Serial Dilution (1:4) conducted as required.	Yes	
Was there agreement between diluted and undiluted results?		No
<10% recovery?		

Comment

Two elements , Cobalt and Lead failed the serial dilution procedure. This indicates possible matrix interference due to chemical or aspiration. Since MSA (see below) was not run the issue can not be resolved. It is the professional judgment of the data validator that the serial dultion issue is not valid in this case.

Method of Standard Additions (MSA)

Was it performed as needed on samples of suspected matrix affects?		No
Was R > 0.995		

Signed: 
William W. Purves

Mercury Analysis (7471A/7470A) Check List

Project Name: WBG-RD-RA Ravenna Arsenal, Ravenna, Ohio

Laboratory: Test America North Canton, Ohio

Sample Delivery Group: **A9A130116**

	Yes	No
Holding Time: Samples were analyzed within holding time (6-Months)	Yes	

Initial Calibration Five calibration standard and blank	Yes	
R > 0.995	Yes	

QC Method Detection Limit (MDL)

MDL Check	Yes	
-----------	-----	--

Initial Calibration Verification (ICV)

%Recovery 90-110%	Yes	
-------------------	-----	--

Initial Calibration Blank (ICB)

Blank Analytes <1/2 MRL	Yes	
-------------------------	-----	--

Continuing Calibration Verification (CCV)

CCV every ten samples	Yes	
CCV at end of run	Yes	
CCV 90-110% Recovery	Yes	

Continuing Calibration Blank (CCB)

CCB every ten samples	Yes	
CCB at end of run	Yes	
CCB analytes < 1/2 MRL	Yes	

Sample Analysis

Samples greater than linear range diluted	Yes	
---	-----	--

Sample QC

Method Blank <1/2 MRL	Yes	
LCS recoveries within required limits	Yes	
MS/MSD recoveries within required limits	Yes	
MD RPD within control limits	Yes	

Method of Standard Additions (MSA)

Was it performed as needed on samples of suspected matrix affects?		No
Was R > 0.995		

Comments

Based upon the 4x rule the sample was too high a concentration for proper spike recovery. The MS/MSD is not relevant.

Signed: 

William W. Purves

Nitrocellulose Analysis (353.2) General Chemistry Check List

Project Name: WBG-RD-RA Ravenna Arsenal, Ravenna, Ohio

Laboratory: Test America North Canton, Ohio

Sample Delivery Group: **A9A130116**

Holding Time:		Yes	No
	Samples were analyzed within holding time (6-Months)	Yes	

Initial Calibration	Number of calibration standard(s) and blank as per method?	Yes	
	R > 0.995	Yes	

QC Method Detection Limit (MDL)

MDL Check	Yes	
-----------	-----	--

Initial Calibration Verification (ICV)

%Recovery within established range?	Yes	
-------------------------------------	-----	--

Initial Calibration Blank (ICB)

Blank Analytes < 1/2 MRL	Yes	
--------------------------	-----	--

Continuing Calibration Verification (CCV)

CCV every ten samples	Yes	
CCV at end of run	Yes	
CCV 90-110% Recovery	Yes	

Continuing Calibration Blank (CCB)

CCB every ten samples	Yes	
CCB at end of run	Yes	
CCB analytes < 1/2 MRL	Yes	

Sample Analysis

Samples greater than linear range diluted	Yes	
---	-----	--

Sample QC

Method Blank < 1/2 MRL	Yes	
LCS recoveries within required limits	Yes	
MS/MSD recoveries within required limits		No
MD RPD within control limits		No

Method of Standard Additions (MSA)

Was it performed as needed on samples of suspected matrix affects?		No
Was R > 0.995		

Comments

The MS failed and thus the RPD was also poor no proper explanation was provided. No MSA was run to verify any issue thus the MS/MSD is not relevant.

Signed: 

William W. Purves



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix S

WBG Gate Access Log

Winklepeck Burning Grounds

Gate Control Log

Month: Sep 08

[illegible]

[illegible]



Appendix T

Asbestos Air Monitoring Results



Diamond Environmental

3624 State Route 303 • Ravenna, Ohio 44266
Phone: (330) 422-0799 • Fax: (330) 422-0798

February 1, 2009

Mr. Brian Stockwell
PIKA International
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266

**RE: Negative Exposure Assessment
Diamond # 9-0007**

Description of Work

The purpose of the air monitoring was to perform a negative exposure assessment during the following tasks:

- Double lining of trailers 12-mils of plastic,
- loading trailers with asbestos contaminated transite soil,
- and sealing the contaminated soil with the plastic prior to transportation to a landfill.

Project co-ordination and air monitoring was conducted by Mr. Keith Bickel, CAHES on June 18, 2007.

Air Monitoring and Results

Personal and 30 minute excursion samples were taken for three days for the negative exposure assessment. For specific information regarding sampling locations and results, please refer to the enclosed sampling sheet.

Air Analysis

All air samples were analyzed by phase contrast microscopy in accordance with the National Institute of Occupational Safety and Health (NIOSH) 7400A method, Issue 2. The use of a phase contrast microscope is limited to counting all fibers, including non-asbestos fibers.

Assessment

If all conditions remain the same throughout this project, no respirator protection equipment for asbestos exposure is necessary. If at any time conditions change then a re-assessment will be necessary.

Please contact the undersigned if you require any additional information. Thank you for consulting Diamond Environmental, LLC.

Sincerely,

Diamond Environmental, LLC.

Keith R. Bickel, CHMM, REP, CAHES
Asbestos Project Coordinator

Date 27-Jan-09
 Client PIKA International
 Project RVAAP - Winklepeck Burning Ground

DIAMOND ENVIRONMENTAL,LLC.
AIRBORNE FIBER MONITORING REPORT
DESCRIPTIVE INFORMATION

Diamond Project # 9-0007

Client Project ID#

SAMPLE I.D.	SAMPLE TYPE	WORKER'S NAME	SOCIAL SECURITY #	LOCATION	ACTIVITY	RESPIRATOR TYPE
01272009-01	PRS-EL	Chuck Morjock		Winklepeck Burning Ground	Loader	
01272009-02	PRS-EL	Jerome Johnson		Winklepeck Burning Ground	Sealer	HM-APR
01272009-03	PRS	Chuck Morjock		Winklepeck Burning Ground	Loader	
01272009-04	PRS	Jerome Johnson		Winklepeck Burning Ground	Sealer	HM-APR
01272009-05	FB					
01272009-06	FB					

ANALYTICAL INFORMATION

FILTER COLLECTION AREA 385 mm2

GRATICULE FIELD AREA 0.00785 mm2

SAMPLE I.D.	PUMP #	CALIB. FLOW RATE (L/min)			Running Time (min)			VOLUME (Liters)	FIBERS/ FIELDS	FIBERS/ mm2 (Blank Corr)	LOQ FIBERS/ cm3	FIBERS/ cm3 (Blank Corr)
		BEGINNING	END	AVERAGE	START	STOP	DURATION					
01272009-01	LV-1	2.00	2.00	2.00	0742	0815	33	66	5/100	6.37	0.074	< 0.074
01272009-02	LV-2	2.00	2.00	2.00	0739	0812	33	66	3/100	3.82	0.074	< 0.074
01272009-03	LV-1	2.00	2.00	2.00	0815	1531	436	872	16.5/100	21.02	0.006	0.009
01272009-04	LV-2	2.00	2.00	2.00	0812	1536	444	888	12/100	15.29	0.006	0.007
01272009-05									0/100	< 0.01		
01272009-06									0/100	< 0.01		

Comments :

KEY TO ABBREVIATIONS					
SAMPLE TYPE		ACTIVITY		RESPIRATOR	
PRS=personal	ENV=environmental	REM=removal	PREP=site prep	HM=half mask	
PRM=perimeter	HEX=hepa exhaust	CLN=clean-up	IC=inside cont.	FF=full face	
BGD=backgroun	CL=clearance	GLBG=glovebag	OC=outside cont.	P=powered	
FB=field blank	FC=final clearance	BGLO=bag load out		APR=air purifying resp.	
	EL=excursion limit	LB=lab blank		SA=supplied air	

Sampled by Keith Bickel

Analyzed by Keith Bickel

Note: Sampling media used is 25mm MCE filter unless otherwise noted.

LOQ = Limit Of Quantitation: The method assumes the lowest quantitative concentration is 10 fibers/100 fields and is volume dependent. Samples below the LOQ are non-quantifiable and therefore are non-reliable.

Diamond Project # 9-0007
Client Project ID#

[illegible]

ANALYTICAL INFORMATION

FILTER COLLECTION AREA 385 mm2

GRATICULE FIELD AREA 0.00785 mm2

[illegible]

Comments :

KEY TO ABBREVIATIONS				
SAMPLE TYPE		ACTIVITY		RESPIRATOR
PRS=personal	ENV=environmental	REM=removal	PREP=site prep	HM=half mask
PRM=perimeter	HEX=hepa exhaust	CLN=clean-up	IC=inside cont.	FF=full face
BGD=backgroun	CL=clearance	GLBG=glovebag	OC=outside cont.	P=powered
FB=field blank	FC=final clearance	BGLO=bag load out		APR=air purifying resp.
	EL=excursion limit	LB=lab blank		SA=supplied air

Sampled by	
------------	--

Keith Bickel

Analyzed by

Keith Bickel

Note: Sampling media used is 25mm MCE filter unless otherwise noted.

LOQ = Limit Of Quantitation; The method assumes the lowest quantitative concentration is 10 fibers/100 fields and is volume dependent. Samples below the LOQ are non-quantifiable and therefore are non-reliable.

Date 30-Jan-09
 Client PIKA International
 Project RVAAP - Winklepeck Burning Ground

DIAMOND ENVIRONMENTAL,LLC.
AIRBORNE FIBER MONITORING REPORT
DESCRIPTIVE INFORMATION

Diamond Project # 9-0007
 Client Project ID#

SAMPLE I.D.	SAMPLE TYPE	WORKER'S NAME	SOCIAL SECURITY #	LOCATION	ACTIVITY	RESPIRATOR TYPE
01302009-01	PRS-EL	Chuck Morjock		Winklepeck Burning Ground	Loader	
01302009-02	PRS-EL	Chauncey Porter		Winklepeck Burning Ground	Sealer	HM-APR
01302009-03	PRS	Chuck Morjock		Winklepeck Burning Ground	Loader	
01302009-04	PRS	Chauncey Porter		Winklepeck Burning Ground	Sealer	HM-APR
01302009-05	FB					
01302009-06	FB					

ANALYTICAL INFORMATION

FILTER COLLECTION AREA 385 mm2

GRATICULE FIELD AREA 0.00785 mm2

SAMPLE I.D.	PUMP #	CALIB. FLOW RATE (L/min)			Running Time (min)			VOLUME (Liters)	FIBERS/ FIELDS	FIBERS/ mm2 (Blank Corr)	LOQ FIBERS/ cm3	FIBERS/ cm3 (Blank Corr)
		BEGINNING	END	AVERAGE	START	STOP	DURATION					
01302009-01	LV-1	2.00	2.00	2.00	0502	0539	37	74	2.5/100	3.18	0.066	< 0.066
01302009-02	LV-2	2.00	2.00	2.00	0503	0544	41	82	3/100	3.82	0.060	< 0.060
01302009-03	LV-1	2.00	2.00	2.00	0543	1319	456	912	10/100	12.74	0.005	0.005
01302009-04	LV-2	2.00	2.00	2.00	0545	1328	463	926	14/100	17.83	0.005	0.007
01302009-05									0/100	< 0.01		
01302009-06									0/100	< 0.01		

Comments :

KEY TO ABBREVIATIONS				
SAMPLE TYPE	ACTIVITY	RESPIRATOR		
PRS=personal	ENV=environmental	REM=removal	PREP=site prep	HM=half mask
PRM=perimeter	HEX=hepa exhaust	CLN=clean-up	IC=inside cont.	FF=full face
BGD=backgroun	CL=clearance	GLBG=glovebag	OC=outside cont.	P=powered
FB=field blank	FC=final clearance	BGLO=bag load out		APR=air purifying resp.
	EL=excursion limit	LB=lab blank		SA=supplied air

Sampled by

Keith Bickel

Analyzed by

Keith Bickel

Note: Sampling media used is 25mm MCE filter unless otherwise noted.

LOQ = Limit Of Quantitation: The method assumes the lowest quantitative concentration is 10 fibers/100 fields and is volume dependent. Samples below the LOQ are non-quantifiable and therefore are non-reliable.



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix U

Lead Air Monitoring Results



Mr. Brian Stockwell
PIKA International
8451 State Route 5
Building 1038
Ravenna, OH 44266

November 14, 2008

DOH ELAP# 11626

Account# 17999

Login# L183667

Dear Mr. Stockwell:

Enclosed are the analytical results for the samples received by our laboratory on November 12, 2008. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Please contact Joe Boyd at (877) 482-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

F. Joseph Unangst
Laboratory Director

Enclosure(s)



LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : PIKA International
Site : WBG, RVAAP, OH
Project No. : WBG 08-01-124
Date Sampled : 06-NOV-08 - 10-NOV-08 Account No.: 17999
Date Received : 12-NOV-08 Login No. : L183667
Date Analyzed : 13-NOV-08
Report ID : 594197

Lead

<u>Sample ID</u>	<u>Lab ID</u>	<u>Air Vol</u> <u>liter</u>	<u>Total</u> <u>ug</u>	<u>Conc</u> <u>mg/m3</u>
C. MORJOCK 11/6	L183667-1	1200	<0.38	<0.00031
J. PULLEM 11/6	L183667-2	1200	0.48	0.00040
T. DONALDSON 11/6	L183667-3	1200	0.52	0.00043
C. MORJOCK 11/7	L183667-4	1200	<0.38	<0.00031
J. PULLEM 11/7	L183667-5	1200	<0.38	<0.00031
T. DONALDSON 11/7	L183667-6	1200	<0.38	<0.00031
C. MORJOCK 11/10	L183667-7	1200	<0.38	<0.00031
J. PULLEM 11/10	L183667-8	1200	0.52	0.00043
T. DONALDSON 11/10	L183667-9	1200	0.38	0.00032
BLANK	L183667-10	NA	<0.38	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.38 ug	Submitted by: MLR
Analytical Method : mod. NIOSH 7300/ mod. OSHA 125G; ICP	Approved by : crd
OSHA PEL (TWA) : 0.05 mg/m3	Date : 14-NOV-08 NYS DOH # : 11626
Collection Media : Filter	QC by: Tom Burgess

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	



LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client Name : PIKA International
Site : WBG, RVAAP, OH
Project No. : WBG 08-01-124

Date Sampled : 06-NOV-08-10-NOV-08 Account No.: 17999
Date Received: 12-NOV-08 Login No. : L183667
Date Analyzed: 13-NOV-08

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

L183667 (Report ID: 594197) : Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(2), im-mwvfilt(8)

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	



6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ Check if change of address

New Client? ☐ yes
☒ no

Report To: Brian Stockwell
8451 ST RT 5
Bldg 1038
Ravenna, OH 44266
Phone No.: 330-358-2920
Fax No.: 330-358-2924

Invoice To: Pika Int
12723 Capricorn Drive
Suite 500
Stafford TX 77477
Phone No.: 281-340-5525
Fax No.: 281-340-5533

Site Name: WBG, RV MAP, OH

Project: WBG 08-01-124

Sampled By: THZ

Need Results By:	(surcharge)	<input checked="" type="checkbox"/> Samples submitted using the FreePumpLoan™ Program.	<input type="checkbox"/> Samples submitted using the FreeSamplingBadges™ Program.
<input type="checkbox"/> 5 Business Days	0%	Client Account No.: <u>17999</u>	
<input type="checkbox"/> 4 Business Days	35%	Purchase Order No.: _____	
<input type="checkbox"/> 3 Business Days	50%	Credit Card No.: _____	Card Holder Name: _____ Exp: _____
<input checked="" type="checkbox"/> 2 Business Days	75%	Email / Fax Results To: <u>Brian Stockwell</u>	
<input type="checkbox"/> Next Day by 6pm	100%	Email Address: <u>bstockwell@pikaint.com</u>	Fax No.: <u>330-358-2924</u>
<input type="checkbox"/> Next Day by Noon	150%		
<input type="checkbox"/> Same day	200%		

Sample Identification	Date Sampled	Collection Medium	*Air Volume (Liters)	Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
1. <u>huck Morjock</u>	<u>6 Nov 08</u>	<u>2 LTRs PM</u>	<u>3000</u>	<u>Day 1 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
2. <u>Joel Pullen</u>	<u>6 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 1 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
3. <u>Terry Donaldson</u>	<u>6 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 1 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
4. <u>huck Morjock</u>	<u>7 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 2 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
5. <u>Joel Pullen</u>	<u>7 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 2 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
6. <u>Terry Donaldson</u>	<u>7 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 2 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
7. <u>huck Morjock</u>	<u>10 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 3 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
8. <u>Joel Pullen</u>	<u>10 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 3 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
9. <u>Terry Donaldson</u>	<u>10 Nov 08</u>	<u>2 LTRs PM</u>		<u>Day 3 600min</u>	<u>Lead NIOSH 7300</u>	<u>7300</u>	
10. <u>Blank</u>							
11.							

☐ Yes ☐ No We normally add a laboratory blank for each analyte. We will charge you for this at our normal rate. If you agree please check "Yes" otherwise check "No".

List description of industry or process / interference's present in sampling area:

Comments:

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by:	<u>Mel Lau</u>	<u>Mel Lau</u>	<u>11 Nov 08</u>
Received by LAB:	<u>[Signature]</u>	<u>[Signature]</u>	<u>11/12/08 1130</u>

Samples received after 3pm will be considered as next day's business.

* sample collection time X LPM = Air Vol.

Page _____ of _____

LAB ORIGINAL



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix V

WBG Excavation QC Logs



MKM Engineers, Inc.

Excavation Q/C Log

Project: Winklepeck Burning Grounds RA

Excavation Number: PAD #61

Location: Ravenna Army Ammunition Plant

Excavation Dimension _____

QA/QC Pre Excavation

Date: 9/8/08 **Type of Anomalies Found** Numerous Hits on
MAG, no surface
items found

QA/QC Methods Used

- * Visually inspected the Pad Excavation
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS: Area is littered w/ metal, plastic, transite
etc. MAG is useless^{***} useless due to all metal
in area. NO ^{***} MEC items found on surface

Final QA/QC After Excavation

Date: 5/19/09 **Type of Anomalies Found** various hits w/ MAG
no surface MEC or
MD items found

QA/QC Methods Used

- * Visually inspected the Excavation Pad
- * Magnetometer assisted surface MEC/MD clearance

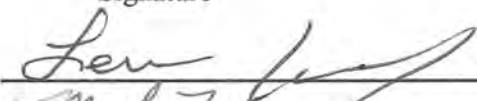
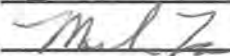
COMMENTS: _____

Name

Signature

Site SUXOS _____ **Lew Kovarik**

Safety Officer - QA/QC _____ **Mel Lau**



MKM Engineers, Inc.

Excavation Q/C Log

Project: Winklepeck Burning Grounds RA

Excavation Number: PAD 61A

Location: Ravenna Army Ammunition Plant

Excavation Dimension _____

QA/QC Pre Excavation

Date: 10/1/08 **Type of Anomalies Found** various hits on MAG,
NO surface items
found

QA/QC Methods Used

- * Visually inspected the Pad Excavation
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS: PAD has some surface metal on it. MAG
has more hits the closer to PAD 61 you get.

Final QA/QC After Excavation

Date: 5/19/09 **Type of Anomalies Found** number of hits w/MAG
NO surface MEC or MD
found

QA/QC Methods Used

- * Visually inspected the Excavation Pad
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS:

Name

Signature

Site SUXOS _____ **Lew Kovarik** _____

Safety Officer - QA/QC _____ **Mel Lau** _____

Lew Kovarik
Mel Lau



MKM Engineers, Inc.

Excavation Q/C Log

Project: Winklepeck Burning Grounds RA

Excavation Number: PAD #61 Berm (South)

Location: Ravenna Army Ammunition Plant

Excavation Dimension _____

QA/QC Pre Excavation

Date: 11/10/08 **Type of Anomalies Found** Numerous hits on MAG
see comments below for
MEC/MD

QA/QC Methods Used

- * Visually inspected the Pad Excavation
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS: Area littered with metal, transite etc.
found pieces + parts of 40 mm Grenades, around
All of south east + southwest corners of PAD.

Final QA/QC After Excavation

Date: 5/19/09 **Type of Anomalies Found** various hits w/mag,
no surface MD or MEC
items found

QA/QC Methods Used

- * Visually inspected the Excavation Pad
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS:

Name

Signature

Site SUXOS Lew Kovarik

Safety Officer - QA/QC Mel Lau

Lew Kovarik
Mel Lau



MKM Engineers, Inc.

Excavation Q/C Log

Project: Winklepeck Burning Grounds RA

Excavation Number: PAD #67

Location: Ravenna Army Ammunition Plant

Excavation Dimension _____

QA/QC Pre Excavation

Date: 11/6/08

Type of Anomalies Found NONE

QA/QC Methods Used

- * Visually inspected the Pad Excavation
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS: NO Anomalies Detected

Final QA/QC After Excavation

Date: 5/18/09

Type of Anomalies Found NONE

QA/QC Methods Used

- * Visually inspected the Excavation Pad
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS:

Name


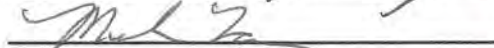
Signature

Site SUXOS _____

Lew Kovarik _____

Safety Officer - QA/QC _____

Mel Lau _____



MKM Engineers, Inc.

Excavation Q/C Log

Project: Winklepeck Burning Grounds RA

Excavation Number: PAD# 70

Location: Ravenna Army Ammunition Plant

Excavation Dimension _____

QA/QC Pre Excavation

Date: 11/6/08 **Type of Anomalies Found** Various small hits
Detected on MAG
NO surface items found

QA/QC Methods Used

- * Visually inspected the Pad Excavation
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS:

Final QA/QC After Excavation

Date: 5/18/09 **Type of Anomalies Found** NONE

QA/QC Methods Used

- * Visually inspected the Excavation Pad
- * Magnetometer assisted surface MEC/MD clearance

COMMENTS:

Name

Signature

Site SUXOS Lew Kovarik

Safety Officer - QA/QC Mel Lau

Lew Kovarik
Mel Lau



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix W

Daily Quality Control Reports

DAILY QUALITY CONTROL REPORT

INITIAL PHASE

REPORT NO. 1

DATE : 22 Sept 08

PROJECT : WBG

JOB NO. : 08-01-124

PROJECT MANAGER Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W	Th	F	S
Sunny	Part Sunny	Cloudy	Rain	Snow		
	x					
Still	Moderate x	High	Direction:			
Dry	Moderate	Humid	Dry			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
WAS TRENCHING/SCAFFOLD/HIGH VOLT ELECTRICAL/HIGH WORK DONE? (if yes, attach copy of statement or checklist showing inspection performed)	0 Yes X No	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?(if yes, attach description of incident and corrective actions)	0 Yes X No	TOTAL WORK HOURS FROM START OF PROJECT	n/a

DAILY QUALITY CONTROL REPORT INITIAL PHASE

LIST QUALITY CONTROL ACTIONS TAKEN TODAY/QC INSPECTIONS CONDUCTED

1. All equipment was operational
2. 300KW Generator was operational
3. All conveyor belts was operational
4. Both ferrous & non-ferrous magnets was operational

[illegible]

UXO Field Activities:

1. UXO Techs set-up screening operations on ferrous conveyor line.
2. UXO Techs set-up screening operations on soil line.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 22 Sept 08
Quality Control Specialist

INITIAL PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
PRELIMINARY WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
CONFIRM THAT AHA'S ARE COMPLETE AND CURRENT	y	
VERIFY THAT MSDS ARE CURRENT AND AVAILABLE	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM THAT PERSONNEL HAV RECEIVED SITE-SPECIFIC TRAINING	y	
CONFIRM DOCUMENTATION OF HAZARD COMMUNICATIONS	y	
CONFIRM COMPLETENESS AND CURRENCY OF REQUIRED TRAINING FOR UXO SPECIALISTS	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
VERIFY THAT COORDINATION MEETING WAS HELD AND MINUTES GENERATED	n/a	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	n/a	

INITIAL PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS	y	
CONFIRM THAT SITE LAYOUT IS IAW PROJECT PLANS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
VERIFY TEST GRID LOCATIONS ARE SELECTED IAW WORK PLAN	n/a	
CONFIRM TEST GRID LAYOUT IS IAW PROJECT PLANS	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
CONFIRM DATA PROCESSING DOCUMENTATION	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA MANAGEMENT SYSTEM MEETS CLIENT REQUIREMENTS	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE		
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM OPERATOR TRAINING	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	

INITIAL PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
CONFIRM MEC TRANSPORT VEHICLE INSPECTED FOR COMPLIANCE WITH SSHP	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	n/a	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	n/a	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT

PREPARATORY PHASE

 REPORT NO. 1

Day

 DATE : 22 Sept 08

Weather

 PROJECT : WBG

Temp°F

 JOB NO. : 08-01-124

Wind

 PROJECT MANAGER Brian Stockwell

Humidity

S	M X	T	W	Th	F	S
Sunny	Part Sunny	Cloudy	Rain	Snow		
	X					
Still	Moderate X	High	Direction: 0-3E			
Dry	Moderate	Humid	Dry			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WAS TRENCHING/SCAFFOLD/HIGH VOLT ELECTRICAL/HIGH WORK DONE? (if yes, attach copy of statement or checklist showing inspection performed) WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?(if yes, attach description of incident and corrective actions)	0 Yes X No 0 Yes X No	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. All equipment was checked prior to operations.
2. Sift Plant was inspected prior to operations.
3. All access gates secured prior to operations beginning.

Rev 0

UXO Field Activities:

1. UXO Techs inspected Trommel prior to operations for any Mec or Debris lodged in unit.
2. UXO Techs inspected all conveyors prior to operations for any Mec or Debris lodged.
3. UXO Techs inspected Ferrous and Non-Ferrous containers prior to operations.
4. Equipment Operators Inspected all Equipment prior to operations.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name _____  _____ Date_22 Sept 08
Quality Control Specialist

DAILY QUALITY CONTROL REPORT PREPARATORY PHASE

PREPARATORY PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL CONTACTED
VERIFY APPROVED AND CURRENT WORK PLAN ON-SITE	y	
VERIFY PROGRAM SCHEDULE IS CURRENT	n/a	
VERIFY SITE DOCUMENTS/DATA MAINTAINED IAW CONTRACT DOCUMENTS	n/a	
VERIFY SUBMITTAL REGISTER IS CURRENT AND ACCURATE	n/a	
VERIFY PLANS ARE PEER REVIEWED	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
VERIFY PERSONNEL TRAINING RECORDS ARE COMPLETE AND VERIFIED	y	
VERIFY COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	
VERIFY VEHICLES ARE INSPECTED DAILY AND DOCUMENTED	y	
SITE LAY-OUT: VERIFY THAT MOBILIZATION OF EQUIPMENT AND PLACEMENT IAW PROJECT PLANS	n/a	
VERIFY GEOPHYSICAL EQUIPMENT IS IAW PROJECT PLANS	n/a	
VERIFY THAT EQUIP IS CALIBRATED	n/a	
VERIFY TEST GRID LOCATIONS ARE SELECTED IAW FIELD SAMPLING PLAN	n/a	
VERIFY TEST GRID LAYOUT IS IAW PROJECT PLANS	n/a	
VERIFY GRID LAY-OUT IAW FIELD SAMPLING PLAN	n/a	
VERIFY DAILY EQUIP FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
VERIFY GEOPHYSICAL DATA IS STORED, MARKED AND TRACKED	n/a	
DATA PROCESSING: VERIFY COMPLIANCE WITH QC PLAN	n/a	
DATA PROCESSING: VERIFY DOCUMENTATION OF DATA	n/a	
CONFIRM PROCESSING PROCEDURE AND SOFTWARE USED. VERIFY TRANSFER OF DATA TO DATA MANAGEMENT SYSTEM	n/a	
VERIFY DATA MANAGEMENT SYSTEM MEETS THE COR REQUIREMENTS	n/a	

PREPARATORY PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
VERIFY DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
VERIFY EXCLUSION ZONE ESTABLISHED IAW SSHP	n/a	
VERIFY NOTIFICATIONS ARE ACCOMPLISHED IAW SSHP	y	
VERIFY INTRUSIVE PROCEDURES COMPLIANCE	y	
VERIFY DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTION BY OPERATOR	y	
VERIFY IDENTIFICATION OF ITEMS	y	
VERIFY DIG SHEET COMPLETION IAW WORK PLAN	n/a	
VERIFY MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
VERIFY MEC HANDLING/DISPOSITION IAW WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKED	y	
VERIFY MEC HANDLING/DISPOSITION IS IAW SSHP AND WORK PLAN	y	
VERIFY/INSPECT EXPLOSIVE TRANSPORT VEHICLE FOR COMPLIANCE WITH SSHP	n/a	
VERIFY COMPLIANCE WITH COLLECTION POINT PROCEDURES IN WP	n/a	
MEC RELATED MATERIAL VERIFY MEC SEGREGATION AT COLLECTION POINT AND DURING TRANSFER	y	
NON-MEC - VERIFY SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT PREPARATORY PHASE

PREPARATORY PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
CONFIRM MEC TRANSPORT VEHICLE INSPECTED FOR COMPLIANCE WITH SSHP	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 1

Day

DATE : 22 Sept 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. Laser sited Pad 61 for depth removal of soil.

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 22 Sept 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 2

Day

DATE : 23 Sept 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. Laser sited Pad 61 for depth removal of soil.

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 23 Sept 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 3

Day

DATE : 24 Sept 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
66						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 24 Sept 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 4

Day

DATE : 25 Sept 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
71						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. All equipment checked during operations.
2. Sift Plant inspected during operations.

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 25 Sept 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 5

Day

DATE : 29 Sept 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x		Cloudy	Rain		Snow
74						
Still	Moderate		High	Direction: 0-3E		
Dry	Moderate		Humid	DRY		

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 29 Sept 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 6

Day

DATE : 30 Sept 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x		Cloudy	Rain		Snow
77						
Still	Moderate		High	Direction: 0-3E		
Dry	Moderate		Humid	DRY		

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 30 Sept 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 7

Day

DATE : 1 Oct 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
81						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. All equipment checked during operations.
2. Sift Plant inspected during operations.

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found
8. The following items were recovered from the ferrous line: 1ea. MK2 Fragmentation Grenade, 1ea. 40mm Practice Grenade, 2ea. PD Fuzes(T-Bar Style).
9. The items listed in # 8 were transported to Igloo#1501 awaiting disposal.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 1 Oct 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 8

Day

DATE : 2 Oct 08

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
73						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found
8. The following item was recovered from the ferrous line: 1ea. PD Fuze (T-Bar Style),
9. The item listed in#8 was transported to Igloo#1501 awaiting disposal.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name____Mel Lau_____



Date 2 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 9 Day
 DATE : 6 Oct 08 Weather
 PROJECT : WBG Temp°F
 JOB NO. : 08-01-124 Wind
 PROJECT MANAGER Brian Stockwell Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x		Cloudy	Rain		Snow
78						
Still	Moderate		High	Direction: 0-3E		
Dry	Moderate		Humid	DRY		

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 6 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 10 Day
 DATE : 7 Oct 08 Weather
 PROJECT : WBG Temp°F
 JOB NO. : 08-01-124 Wind
 PROJECT MANAGER Brian Stockwell Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
78						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 7 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 11 Day
 DATE : 8 Oct 08 Weather
 PROJECT : WBG Temp°F
 JOB NO. : 08-01-124 Wind
 PROJECT MANAGER Brian Stockwell Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
68						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 8 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 12 Day
 DATE : 9 Oct 08 Weather
 PROJECT : WBG Temp°F
 JOB NO. : 08-01-124 Wind
 PROJECT MANAGER Brian Stockwell Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
66						
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bill Menzl		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. Sift Plant was shut down due to Trommel Unit needing main bearings replaced.
4. All maintenance inspections performed on all equipment.

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 9 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
13
DATE : 13 Oct 08 _____ Weather
PROJECT : WBG _____ Temp°F
JOB NO. : 08-01-124 _____ Wind
PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny	Cloudy x	Rain	Snow		
66						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. Sift Plant was shut down due to Trommel Unit needing main bearings replaced.
4. All maintenance inspections performed on all equipment.
5. Inspected long boom, replaced pin due to crack.

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. No Mec found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 13 Oct 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 14
 DATE : 14 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny	Cloudy x		Rain		Snow
66						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. All maintenance inspections performed on all equipment.
4. Conveyors inspected for slippage

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. 1ea PD Fuze was recovered from the soil conveyor
8. 1ea M52B1 Fuze w/pin installed was transported to Igloo# 1501 and stored awaiting disposal

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 14 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 15
 DATE : 15 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny	Cloudy x		Rain		Snow
66						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. All maintenance inspections performed on all equipment.
4. Conveyors inspected for slippage

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 15 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 16
 DATE : 16 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny	Cloudy x		Rain		Snow
66						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. All equipment checked during operations.
2. Sift Plant inspected during operations.
3. All maintenance inspections performed on all equipment.
4. Conveyors inspected for slippage

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD
4. UXO Techs inspected the soil exiting the Sift Plant using a Magnet alarm
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day
7. 1ea. M52B1 was recovered intact.
8. 1ea. M52B1 was transported to Igloo#1501 awaiting disposal.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name _____ Mel Lau _____



Date 16 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 17
 DATE : 20 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x		Cloudy	Rain		Snow
55						
Still x	Moderate		High	Direction: 0-3E		
Dry	Moderate		Humid	DRY		

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. Sift Plant shut down due to Maintenance repairs on shaker pan

Rev 0

UXO Field Activities:

1. None

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 20 Oct 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
18
DATE : 21 Oct 08 _____ Weather
PROJECT : WBG _____ Temp°F
JOB NO. : 08-01-124 _____ Wind
PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
48						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. Sift Plant shut down due to Maintenance repairs on shaker pan
5. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
- 7.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 21 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
19
DATE : 22 Oct 08 _____ Weather
PROJECT : WBG _____ Temp°F
JOB NO. : 08-01-124 _____ Wind
PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
45						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. Sift Plant shut down due to Maintenance repairs on shaker pan
5. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. 1ea M52B1 PD Fuze was recovered intact
8. 3ea MK2 Grenade Fuzes w/safety pin installed was recovered intact.
9. Items in 7&8 were transported to Igloo#1501 awaiting disposal.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 22 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 20 _____
 DATE : 23 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
46						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 23 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 21
 DATE : 27 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
46						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 27 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 22
 DATE : 28 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
46						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed
5. Repairs were done on shakerpan, replaced bearings.

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 28 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 23
 DATE : 29 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
38						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 29 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 24
 DATE : 30 Oct 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
38						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 30 Oct 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 25
 DATE : 3 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
52						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

300 series excavator
200 series excavator
Frontend loader
20ton rocktruck
Skidsteer
Portable manlift
Skytrack

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 3 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 26
 DATE : 4 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
53						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n / a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n / a
		TOTAL WORK HOURS FROM START OF PROJECT	n / a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 4 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 27
 DATE : 6 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
53						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n / a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n / a
		TOTAL WORK HOURS FROM START OF PROJECT	n / a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 6 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 28
 DATE : 7 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th	F x	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
51						
Still x	Moderate	High		Direction: 0-3E		
Dry	Moderate	Humid		DRY		

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. Transported to Igloo#1501 3ea.PD Fuzes(T-Bar), 1ea MK11Hand Grenade (no fuze), 1ea BD Fuze, 1ea Grenade Fuze, awaiting disposal.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name____Mel Lau_____



Date 7 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 29
 DATE : 10 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
55						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 10 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 30
 DATE : 11 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
51						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n / a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n / a
		TOTAL WORK HOURS FROM START OF PROJECT	n / a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 11 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 31
 DATE : 12 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
48						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 12 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 32
 DATE : 13 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

300 series excavator
200 series excavator
Frontend loader
20ton rocktruck
Skidsteer
Portable manlift
Skytrack

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 13 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 33
 DATE : 16 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.
7. Recovered 2 ea. 40mm Practice Grenades,
8. Transported both items to Igloo #1501 for safe storage awaiting Disposal.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name _____ Mel Lau _____



Date 16 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 34
 DATE : 17 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

300 series excavator
200 series excavator
Frontend loader
20ton rocktruck
Skidsteer
Portable manlift
Skytrack

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 17 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 35
 DATE : 18 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

300 series excavator
200 series excavator
Frontend loader
20ton rocktruck
Skidsteer
Portable manlift
Skytrack

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
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5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 18 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 36
 DATE : 19 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Rev 0

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
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4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 19 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 37
 DATE : 24 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
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300 series excavator
200 series excavator
Frontend loader
20ton rocktruck
Skidsteer
Portable manlift
Skytrack

UXO Field Activities:

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I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 24 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 38
 DATE : 25 Nov 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

[illegible]

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name _____ Mel Lau _____



_____ Date 25 Nov 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 39
 DATE : 2 Dec 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 2 Dec 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
40
DATE : 3 Dec 08 _____ Weather
PROJECT : WBG _____ Temp°F
JOB NO. : 08-01-124 _____ Wind
PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Sift Plant inspected during operations.
2. All maintenance inspections performed on all equipment.
3. Conveyors inspected for slippage
4. All equipment checked after repairs completed
5. Completed sifting operations

Jan 2006

UXO Field Activities:

1. UXO Techs screened the ferrous conveyor line for MEC/MD
2. UXO Techs screened soil conveyors for MEC/MD coming from the Non-Ferrous Magnets.
3. UXO Techs inspected the containers under the Non-Ferrous Magnets for any MEC/MD.
4. UXO Techs inspected the soil exiting the Sift Plant using a magnet alarm.
5. SUXOS/SSHO inspected random 4yd buckets of processed soil (1ea 4yd buckets per hour) thru out the day.
6. SUXOS/SSHO inspected random 4yd buckets of processed Ferrous metal (1ea 4yd buckets per hour) thru out the day.

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 3 Dec 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
41
DATE : 4 Dec 08 _____ Weather
PROJECT : WBG _____ Temp°F
JOB NO. : 08-01-124 _____ Wind
PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	T x	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. Start preparing the plant for tear down.
2. Start inspecting plant for final maintenance.

Rev 0

UXO Field Activities:

1. Start inspecting non-ferrous boxes

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 4 Dec 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 42
 DATE : 5 Dec 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th	F x	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
43						
Still x	Moderate	High		Direction: 0-3E		
Dry	Moderate	Humid		DRY		

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Start preparing the plant for tear down.
2. Start inspecting plant for final maintenance.

Rev 0

UXO Field Activities:

1. Inspecting non-ferrous boxes

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau



Date 5 Dec 08

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 43
 DATE : 8 Dec 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M x	T	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Start preparing the plant for tear down.
2. Start inspecting plant for final maintenance.

[illegible]

UXO Field Activities:

1. Inspecting non-ferrous boxes

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 8 Dec 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 44
 DATE : 9 Dec 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T x	W	Th	F	S
Sunny	Part Sunny x	Cloudy	Rain	Snow		
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Joel Pullem		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Bob Marker		Operator	
WBG Sift Plant	John Stoddard		Operator	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Start preparing the plant for tear down.
2. Start inspecting plant for final maintenance.

[illegible]

UXO Field Activities:

1. Inspecting non-ferrous boxes

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 9 Dec 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 45
 DATE : 10 Dec 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W x	Th	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a




1. Start preparing the plant for tear down.
2. Start inspecting plant for final maintenance.

Rev 0

UXO Field Activities:

1. Inspecting non-ferrous boxes

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 10 Dec 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. _____ Day
 46
 DATE : 11 Dec 08 _____ Weather
 PROJECT : WBG _____ Temp°F
 JOB NO. : 08-01-124 _____ Wind
 PROJECT MANAGER Brian Stockwell _____ Humidity

S	M	T	W	Th x	F	S
Sunny	Part Sunny x	Cloudy		Rain		Snow
43						
Still x	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
WBG Sift Plant	Lew Kovarik		SUXOS	
WBG Sift Plant	Mel Lau		SSHO/QA/QC	
WBG Sift Plant	James Ennis		Tech 3	
WBG Sift Plant	Jim Bouvier		Tech 3	
WBG Sift Plant	Justin Roe		Tech 2	
WBG Sift Plant	Bruce Freeman		Tech 1	
WBG Sift Plant	Terry Donaldson		Tech 1	
WBG Sift Plant	Kenneth McCoy		Operator	
WBG Sift Plant	Chuck Morjock		Operator	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	n/a
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	n/a
		TOTAL WORK HOURS FROM START OF PROJECT	n/a



1. Start preparing the plant for tear down.
2. Start inspecting plant for final maintenance.

Rev 0

UXO Field Activities:

1. Inspecting non-ferrous boxes

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 11 Dec 08
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	n/a	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	n/a	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	n/a	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	n/a	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	n/a	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	n/a	
CONFIRM CALIBRATION OF EQUIPMENT	n/a	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	n/a	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	n/a	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	n/a	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	n/a	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	n/a	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	n/a	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	n/a	
VERIFY COMPLIANCE WITH DATA QC PLAN	n/a	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	n/a	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	n/a	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	y	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	y	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	y	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	y	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	y	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	y	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	y	

DAILY QUALITY CONTROL REPORT INITIAL PHASE

REPORT NO. 1

DATE : 26 Jan 09

PROJECT : WBG

JOB NO. : 08-01-124

PROJECT MANAGER Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W	Th	F	S
Sunny	Part Sunny	Cloudy	Rain	Snow		
Still	Moderate	High	Direction:			
Dry	Moderate	Humid				

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
WAS TRENCHING/SCAFFOLD/HIGH VOLT ELECTRICAL/HIGH WORK DONE? (if yes, attach copy of statement or checklist showing inspection performed)	X Yes 0 No	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?(if yes, attach description of incident and corrective actions)	0 Yes X No	TOTAL WORK HOURS FROM START OF PROJECT	

DAILY QUALITY CONTROL REPORT INITIAL PHASE

LIST QUALITY CONTROL ACTIONS TAKEN TODAY/QC INSPECTIONS CONDUCTED

1. Inspected Trailer Set-up for proper Bracing
2. Inspected Equipment logs
3. Inspected scaffolding for proper set-up
4. Inspected generator for proper set-up and grounding
5. Inspected all documentation for all workers on job site

[illegible]

UXO Field Activities:

1. Inspected area for MEC/MD none found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Mel Lau

Name Mel Lau

Date 26Jan09

Quality Control Specialist

INITIAL PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
PRELIMINARY WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	na	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
CONFIRM THAT AHA'S ARE COMPLETE AND CURRENT	y	
VERIFY THAT MSDS ARE CURRENT AND AVAILABLE	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM THAT PERSONNEL HAV RECEIVED SITE-SPECIFIC TRAINING	y	
CONFIRM DOCUMENTATION OF HAZARD COMMUNICATIONS	y	
CONFIRM COMPLETENESS AND CURRENCY OF REQUIRED TRAINING FOR UXO SPECIALISTS	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
VERIFY THAT COORDINATION MEETING WAS HELD AND MINUTES GENERATED	na	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	na	

INITIAL PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS	y	
CONFIRM THAT SITE LAYOUT IS IAW PROJECT PLANS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	y	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
VERIFY TEST GRID LOCATIONS ARE SELECTED IAW WORK PLAN	na	
CONFIRM TEST GRID LAYOUT IS IAW PROJECT PLANS	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	y	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	na	
CONFIRM DATA PROCESSING DOCUMENTATION	na	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	na	
CONFIRM DATA MANAGEMENT SYSTEM MEETS CLIENT REQUIREMENTS	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	y	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM OPERATOR TRAINING	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	

INITIAL PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
CONFIRM MEC TRANSPORT VEHICLE INSPECTED FOR COMPLIANCE WITH SSHP	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT PREPARATORY PHASE

REPORT NO. 1

Day

DATE : 26 Jan 09

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W	Th	F x	S
Sunny	Part Sunny	Cloudy x	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid				

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
WAS TRENCHING/SCAFFOLD/HIGH VOLT ELECTRICAL/HIGH WORK DONE? (if yes, attach copy of statement or checklist showing inspection performed)	X Yes 0 No	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?(if yes, attach description of incident and corrective actions)	0 Yes X No	TOTAL WORK HOURS FROM START OF PROJECT	



1. Inspected Trailer Set-up for proper Bracing
2. Inspected Equipment logs
3. Inspected scaffolding for proper set-up
4. Inspected generator for proper set-up and grounding
5. Inspected all documentation for all workers on job site

[illegible]

UXO Field Activities:

1. Inspected area for MEC/MD none found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau 

Date 26Jan09

Quality Control Specialist

DAILY QUALITY CONTROL REPORT PREPARATORY PHASE

PREPARATORY PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL CONTACTED
VERIFY APPROVED AND CURRENT WORK PLAN ON-SITE	y	
VERIFY PROGRAM SCHEDULE IS CURRENT	y	
VERIFY SITE DOCUMENTS/DATA MAINTAINED IAW CONTRACT DOCUMENTS	y	
VERIFY SUBMITTAL REGISTER IS CURRENT AND ACCURATE	y	
VERIFY PLANS ARE PEER REVIEWED	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	Y	
VERIFY PERSONNEL TRAINING RECORDS ARE COMPLETE AND VERIFIED	y	
VERIFY COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	
VERIFY VEHICLES ARE INSPECTED DAILY AND DOCUMENTED	y	
SITE LAY-OUT: VERIFY THAT MOBILIZATION OF EQUIPMENT AND PLACEMENT IAW PROJECT PLANS	y	
VERIFY GEOPHYSICAL EQUIPMENT IS IAW PROJECT PLANS	na	
VERIFY THAT EQUIP IS CALIBRATED	na	
VERIFY TEST GRID LOCATIONS ARE SELECTED IAW FIELD SAMPLING PLAN	na	
VERIFY TEST GRID LAYOUT IS IAW PROJECT PLANS	na	
VERIFY GRID LAY-OUT IAW FIELD SAMPLING PLAN	na	
VERIFY DAILY EQUIP FUNCTION CHECKS ARE PERFORMED AND RECORDED	y	
VERIFY GEOPHYSICAL DATA IS STORED, MARKED AND TRACKED	na	
DATA PROCESSING: VERIFY COMPLIANCE WITH QC PLAN	y	
DATA PROCESSING: VERIFY DOCUMENTATION OF DATA	y	
CONFIRM PROCESSING PROCEDURE AND SOFTWARE USED. VERIFY TRANSFER OF DATA TO DATA MANAGEMENT SYSTEM	y	
VERIFY DATA MANAGEMENT SYSTEM MEETS THE COR REQUIREMENTS	y	

PREPARATORY PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
VERIFY DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
VERIFY EXCLUSION ZONE ESTABLISHED IAW SSHP	y	
VERIFY NOTIFICATIONS ARE ACCOMPLISHED IAW SSHP	y	
VERIFY INTRUSIVE PROCEDURES COMPLIANCE	y	
VERIFY DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTION BY OPERATOR	y	
VERIFY IDENTIFICATION OF ITEMS	y	
VERIFY DIG SHEET COMPLETION IAW WORK PLAN	na	
VERIFY MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
VERIFY MEC HANDLING/DISPOSITION IAW WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKED	na	
VERIFY MEC HANDLING/DISPOSITION IS IAW SSHP AND WORK PLAN	na	
VERIFY/INSPECT EXPLOSIVE TRANSPORT VEHICLE FOR COMPLIANCE WITH SSHP	na	
VERIFY COMPLIANCE WITH COLLECTION POINT PROCEDURES IN WP	na	
MEC RELATED MATERIAL VERIFY MEC SEGREGATION AT COLLECTION POINT AND DURING TRANSFER	na	
NON-MEC - VERIFY SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT PREPARATORY PHASE

PREPARATORY PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
CONFIRM MEC TRANSPORT VEHICLE INSPECTED FOR COMPLIANCE WITH SSHP	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 1

Day

DATE : 26 Jan 09

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M x	T	W	Th	F	S
Sunny	Part	Cloudy	Rain	Snow		
Still	Moderate	High	Direction:			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	70
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7021
		TOTAL WORK HOURS FROM START OF PROJECT	7091

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

LIST QUALITY CONTROL ACTIONS TAKEN TODAY/QC INSPECTIONS CONDUCTED

1. Inspected Trailer Set-up for proper bracing
2. Inspected equipment logs
3. Inspected scaffolding for proper set-up and grounding
4. Inspected generator for proper set-up and grounding
5. Inspected all documentation for all workers on job site

[illegible]

UXO Field Activities:

- 1. Inspected are for MEC/MD none found**



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau 
Date 26Jan09

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 2

Day

DATE : 28 Jan 09

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W x	Th	F	S
Sunny	Part	Cloudy	Rain	Snow x		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	70
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7091
		TOTAL WORK HOURS FROM START OF PROJECT	7161




1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 5ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected are for MEC/MD none found	



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 28Jan09
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGRATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 3

Day

DATE : 29 Jan 09 Weather

PROJECT : WBG Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER Brian Stockwell Humidity

S	M	T	W	Th x	F	S
Sunny	Part	Cloudy	Rain	Snow x		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7161
		TOTAL WORK HOURS FROM START OF PROJECT	7241



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 10ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:

1. Inspected are for MEC/MD none found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 29Jan09
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 4

Day

DATE : 30 Jan 09 Weather

PROJECT : WBG Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER Brian Stockwell Humidity

S	M	T	W	Th	F x	S
Sunny	Part	Cloudy x	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7241
		TOTAL WORK HOURS FROM START OF PROJECT	7321

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE


LIST QUALITY CONTROL ACTIONS TAKEN TODAY/QC INSPECTIONS CONDUCTED

1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 10ea. Truckloads were shipped out to authorized landfill

[illegible]**UXO Field Activities:**

1. Inspected are for MEC/MD none found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 30Jan09
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 5

DATE : 2 Feb 09 Weather

PROJECT : WBG Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER Brian Stockwell Humidity

S	M x	T	W	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7321
		TOTAL WORK HOURS FROM START OF PROJECT	7411




1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 9ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected are for MEC/MD none found	



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 2Feb09
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 6

Day

DATE : 3 Feb 09 Weather

PROJECT : WBG Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER Brian Stockwell Humidity

S	M	T x	W	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	


<p>WAS A JOB SAFETY MEETING HELD THIS DATE</p> <p>WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)</p>	<p>X Yes 0 No</p> <p>0 Yes X No</p>	<p>TOTAL WORK HOURS ON JOB SITE THIS DATE</p> <p>90</p>
		<p>CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT</p> <p>7411</p>
		<p>TOTAL WORK HOURS FROM START OF PROJECT</p> <p>7501</p>



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 21ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected are for MEC/MD none found	

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 3Feb09
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 7

Day

DATE : 4 Feb 09 Weather

PROJECT : WBG Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER Brian Stockwell Humidity

S	M	T	W x	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7501
		TOTAL WORK HOURS FROM START OF PROJECT	7591



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 18ea. Truckloads were shipped out to authorized landfill
6. Ohio Dept of Health did an unannounced inspection on job site.
7. No observations noted by inspector.

UXO Field Activities:	
1. Inspected are for MEC/MD none found	

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 4Feb09

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGRATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 8

Day

DATE : 5 Feb 09

Weather

PROJECT : WBG

Temp°F

JOB NO. : 08-01-124

Wind

PROJECT MANAGER Brian Stockwell

Humidity

S	M	T	W x	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow		
Still	Moderate	High	Direction: 0-3E			
Dry	Moderate	Humid	DRY			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Tanerinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Kenny McCoy	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

<p>WAS A JOB SAFETY MEETING HELD THIS DATE</p> <p>WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)</p>	<p>X Yes 0 No</p> <p>0 Yes X No</p>	<p>TOTAL WORK HOURS ON JOB SITE THIS DATE</p> <p>90</p>
		<p>CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT</p> <p>7591</p>
		<p>TOTAL WORK HOURS FROM START OF PROJECT</p> <p>7681</p>



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 20ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected are for MEC/MD none found	

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name Mel Lau  Date 5Feb09
Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAIN IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGRATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 9

DATE : 9 Feb 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M X	T	W	Th	F	S
Sunny	Part	Cloudy x	Rain			Snow
High	42	Low	17			
Still	Moderate	High	Direction: ESE @12mph			
Dry	Moderate	Humid	70%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
John Coen	Diamond		Asbestos Worker	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7681
		TOTAL WORK HOURS FROM START OF PROJECT	7771



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 18 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected area for MEC/MD none found	

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name James Bouvier

Date 9 Feb 09


Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 10

DATE : 10 Feb 09 Weather

PROJECT : Winklepeck Burning Grounds Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER: Brian Stockwell Humidity

S	M	T X	W	Th	F	S
Sunny	Part	Cloudy x	Rain x	Snow		
High	54	Low	34			
Still	Moderate	High	Direction: S @ 9mph			
Dry	Moderate	Humid	80%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
John Coen	Diamond		Asbestos Worker	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7771
		TOTAL WORK HOURS FROM START OF PROJECT	7861



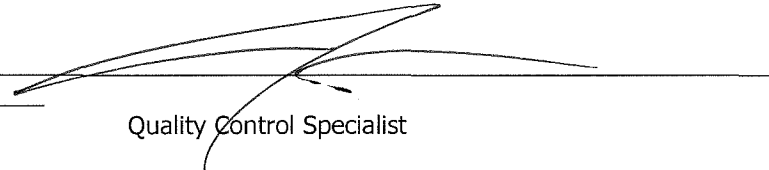
1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 14 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected area for MEC/MD none found	

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name James Bouvier

Date 10 Feb 09



Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 11

DATE : 11 Feb 09 Weather

PROJECT : Winklepeck Burning Grounds Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER: Brian Stockwell Humidity

S	M	T	W X	Th	F	S
Sunny	Part	Cloudy x	Rain x	Snow		
High	63	Low	45			
Still	Moderate	High	Direction: SSE @ 10mph			
Dry	Moderate	Humid	90%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
John Coen	Diamond		Asbestos Worker	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7861
		TOTAL WORK HOURS FROM START OF PROJECT	7951



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 17 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:

- 1. Inspected area for MEC/MD none found**

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name James Bouvier

Date 11 Feb 09



Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 12

DATE : 13 Feb 09 Weather

PROJECT : Winklepeck Burning Grounds Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER: Brian Stockwell Humidity

S	M	T	W	Th	F X	S
Sunny	Part	Cloudy x	Rain	Snow x		
High	34	Low	29			
Still	Moderate	High	Direction: W @ 11 mph			
Dry	Moderate	Humid	69%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
John Coen	Diamond		Asbestos Worker	
Keith Bickel	Diamond		Asbestos Supervisor	
Jay Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	7951
		TOTAL WORK HOURS FROM START OF PROJECT	8031



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 17 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected area for MEC/MD none found	

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name James Bouvier

Date 13 Feb 09



Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



Day

Weather

Temp °F

Wind

Humidity

S	M X	T	W	Th	F	S
Sunny	Part		Cloudy x	Rain		Snow x
High	29	Low	20			
Still	Moderate		High		Direction: N @ 7 mph	
Dry	Moderate		Humid		72%	

[illegible]

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	70
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8031
		TOTAL WORK HOURS FROM START OF PROJECT	8101



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 16 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:
1. Inspected area for MEC/MD none found

Name James Bouvier
Date 16 Feb 09

Jan 2006

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 14

DATE : 17 Feb 09 Weather

PROJECT : Winklepeck Burning Grounds Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER: Brian Stockwell Humidity

S	M	T X	W	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow x		
High	38	Low	30			
Still	Moderate	High	Direction: S @ 9 mph			
Dry	Moderate	Humid	53%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8101
		TOTAL WORK HOURS FROM START OF PROJECT	8191



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 22 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected area for MEC/MD none found	

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 15

DATE : 18 Feb 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W X	Th	F	S
Sunny	Part	Cloudy x	Rain x	Snow x		
High	42	Low	25			
Still	Moderate	High	Direction: SSE @ 13 mph			
Dry	Moderate	Humid	72%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Dave Albertson	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	90
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8191
		TOTAL WORK HOURS FROM START OF PROJECT	8281



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 31 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected area for MEC/MD none found	

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 16

DATE : 19 Feb 09 Weather

PROJECT : Winklepeck Burning Grounds Temp°F

JOB NO. : 08-01-124 Wind

PROJECT MANAGER: Brian Stockwell Humidity

S	M	T	W	Th X	F	S
Sunny	Part	Cloudy x	Rain	Snow x		
High	27	Low	18			
Still	Moderate	High	Direction: W @ 28 mph			
Dry	Moderate	Humid	73%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	62.5
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8281
		TOTAL WORK HOURS FROM START OF PROJECT	8343.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 13 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:	
1. Inspected area for MEC/MD none found	

Name James Bouvier
Date 19 Feb 09

Jan 2006

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 17

DATE : 23 Feb 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M X	T	W	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow x		
High	21	Low	13			
Still	Moderate	High	Direction: NW @ 19 mph			
Dry	Moderate	Humid	61%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Chauncey Porter	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8343.5
		TOTAL WORK HOURS FROM START OF PROJECT	8423.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 28 ea. Truckloads were shipped out to authorized landfill

1. Inspected area for MEC/MD none found

Rev 0

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



Day

Weather

Temp °F

Wind

Humidity

S	M	T X	W	Th	F	S
Sunny	Part		Cloudy x	Rain		Snow
High	30	Low	22			
Still	Moderate		High		Direction: SW @ 5 mph	
Dry	Moderate		Humid		57%	

[illegible]

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	70
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8423.5
		TOTAL WORK HOURS FROM START OF PROJECT	8493.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 28 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:
1. Inspected area for MEC/MD none found

Name James Bouvier
Date 24 Feb 09

Jan 2006

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 19

DATE : 25 Feb 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W X	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow		
High	41	Low	34			
Still	Moderate	High	Direction: SSE @ 9 mph			
Dry	Moderate	Humid	62%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Gary Billiter	Diamond		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8493.5
		TOTAL WORK HOURS FROM START OF PROJECT	8573.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 26 ea. Truckloads were shipped out to authorized landfill

1. Inspected area for MEC/MD none found

Rev 0

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 20

DATE : 26 Feb 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W	Th X	F	S
Sunny	Part	Cloudy x	Rain x	Snow		
High	40	Low	34			
Still	Moderate	High	Direction: S @ 7 mph			
Dry	Moderate	Humid	68%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Gary Billiter	Diamond		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8573.5
		TOTAL WORK HOURS FROM START OF PROJECT	8653.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 18 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:

1. Inspected area for MEC/MD none found

Name James Bouvier
Date 26 Feb 09

Jan 2006

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



Day

Weather

Temp °F

Wind

Humidity

S	M X	T	W	Th	F	S
Sunny	Part		Cloudy x	Rain		Snow
High	17	Low	12			
Still	Moderate		High		Direction: N @ 19 mph	
Dry	Moderate		Humid		57%	

[illegible]

WAS A JOB SAFETY MEETING HELD THIS DATE WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If yes, attach Meeting copy of completed OSHA/accident report)	X Yes 0 No 0 Yes X No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8653.5
		TOTAL WORK HOURS FROM START OF PROJECT	8733.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 15 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:

- 1. Inspected area for MEC/MD none found**

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name James Bouvier

Date 2 Mar 09

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 22

DATE : 3 Mar 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T X	W	Th	F	S
Sunny	Part	Cloudy x	Rain	Snow		
High	21	Low	8			
Still	Moderate	High	Direction: NW @ 9 mph			
Dry	Moderate	Humid	48%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Gary Billiter	Diamond		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8733.5
		TOTAL WORK HOURS FROM START OF PROJECT	8813.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 9 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:

- 1. Inspected area for MEC/MD none found**

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Date 3 Mar 09

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 23

DATE : 5 Mar 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W	Th X	F	S
Sunny	Part x	Cloudy	Rain	Snow		
High	52	Low	27			
Still	Moderate	High	Direction: SSW @ 7 mph			
Dry	Moderate	Humid	67%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Flavio Garcia	Diamond		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8813.5
		TOTAL WORK HOURS FROM START OF PROJECT	8893.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 10 ea. Truckloads were shipped out to authorized landfill

UXO Field Activities:
1. Inspected area for MEC/MD none found

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	

DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

REPORT NO. 24

DATE : 6 Mar 09

PROJECT : Winklepeck Burning Grounds

JOB NO. : 08-01-124

PROJECT MANAGER: Brian Stockwell

Day

Weather

Temp°F

Wind

Humidity

S	M	T	W	Th	F X	S
Sunny	Part	Cloudy x	Rain	Snow		
High	63	Low	47			
Still	Moderate	High	Direction: SSW @ 15 mph			
Dry	Moderate	Humid	56%			

PERSONNEL ON-SITE				
QC Location and Description	Employer	Number	Job Title/Classification	Remarks
Shahram Taherinia	Pika		Site Supervisor	
Jim Bouvier	Pika		UXO Tech III/SSHO	
Chuck Morjock	Pika		Operator	
Keith Bickel	Diamond		Asbestos Supervisor	
John Coen	Diamond		Asbestos Worker	
Larry Pollard	Work USA		Asbestos Worker	
Jerome Johnson	Work USA		Asbestos Worker	
Flavio Garcia	Diamond		Asbestos Worker	

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	80
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8893.5
		TOTAL WORK HOURS FROM START OF PROJECT	8973.5



1. Inspected scaffolding for proper set-up
2. Inspected trucks so that liners were installed properly
3. Observed operator to insure no soil was spilled outside of liner
4. Inspected truck liners were sealed properly for off-site shipment
5. 5 ea. Truckloads were shipped out to authorized landfill

[illegible]

1. Inspected area for MEC/MD none found

Name James Bouvier
Date 6 Mar 09

Jan 2006

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



Day

Weather

Temp °F

Wind

Humidity

S	M	T X	W	Th	F	S
Sunny	Part x		Cloudy	Rain		Snow
High	55	Low	28			
Still	Moderate		High		Direction: ESE @ 14 mph	
Dry	Moderate		Humid		33%	

[illegible]

WAS A JOB SAFETY MEETING HELD THIS DATE	X Yes 0 No	TOTAL WORK HOURS ON JOB SITE THIS DATE	70
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if yes, attach Meeting copy of completed OSHA/accident report)	0 Yes X No		
		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	8973.5
		TOTAL WORK HOURS FROM START OF PROJECT	9043.5
LIST QUALITY CONTROL ACTIONS TAKEN TODAY/QC INSPECTIONS CONDUCTED			
1. Removal of six inch layer of dirt within footprint of previous soil pile. 2. Inspected trucks for proper installation of liners. 3. Observed operator to ensure no soil was spilled outside of liner. 4. Inspected trucks for proper sealing of liners. 5. Five (5) trucks loaded, sealed and transported off site to authorized landfill.			



DAILY QUALITY CONTROL REPORT FOLLOW-ON PHASE

Equipment at the Site	Equipment Received at the Site
KomatsuWA380FrontLoader	26Jan09

UXO Field Activities:

1. Inspected area for MEC/MD none found

I certify that this report is complete and correct and that I or my authorized representative, have inspected the work performed this day and have determined that all materials, equipment and workmanship are in strict compliance with plans and specifications except as noted herein.

Name James Bouvier

Date 24 Mar 09

Quality Control Specialist

FOLLOW-ON PHASE

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
INITIAL WORK WAS DONE CORRECTLY	y	
ASSURE PROGRAM SCHEDULE IS CURRENT	y	
ASSURE SITE DOCUMENTS/DATE IS MAINTAINED IAW CONTACT REQUIREMENTS	y	
ASSURE QC MEETINGS ARE HELD, REVIEW MINUTES	na	
CONFIRM CHANGES ARE UPDATED INTO SITE PLANS	y	
REVIEW SUBMITTAL REGISTER TO ASSURE IT IS CURRENT AND ACCURATE	y	
CONFIRM PLANS ARE PEER REVIEWED	y	
CONFIRM MQAM REVIEWS AND CERTIFICATION OF PLANS	y	
AUDIT MEDICAL RECORDS FOR COMPLETENESS AND CURRENCY	y	
AUDIT SAFETY MEETING DOCUMENTATION	y	
AUDIT SITE VISITOR DOCUMENTATION	y	
REVIEW AND VERIFY PROPER MAINTENANCE	y	
VERIFY COMPLIANCE WITH SSHP (SPOT CHECK)	y	
CONFIRM EMERGENCY TELEPHONE NUMBERS	y	
CONFIRM MEDICAL SUPPORT LOCATIONS ARE IDENTIFIED AND DIRECTIONS ARE AVAILABLE	y	
CONFIRM EVACUATION ROUTES ARE IDENTIFIED AND DOCUMENTED	y	
CONFIRM MEDICAL SUPPLIES ARE REPLENISHED AND IN PROPER LOCATIONS	y	
VERIFY LOCATION AND SERVICEABILITY OF FIRE EXTINGUISHERS	y	
REVIEW TRAINING RECORDS FOR COMPLETENESS AND CURRENCY	y	
CONFIRM REQUIRED NOTIFICATIONS ARE COMPLETED	y	
CONFIRM COMMUNICATIONS SYSTEM IS SET-UP AND OPERATIONAL	y	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
CONFIRM VEHICLES ARE INSPECTED DAILY AND HAVE REQUIRED MAPS AND FIRST AID KITS	y	
VERIFY VISUAL SURFACE SWEEPS ARE CONDUCTED ACCORDING TO WORK PLAN	na	
CONFIRM THAT MEC IDENTIFICATION/HANDLING IS ACCORDING TO WORK PLAN	na	
VERIFY EQUIPMENT OBTAINED IS IN ACCORDANCE WITH PROJECT PLANS	y	
CONFIRM CALIBRATION OF EQUIPMENT	na	
CONFIRM GRID LAYOUT IS IAW WORKPLAN	na	
VERIFY DAILY EQUIPMENT FUNCTION CHECKS ARE PERFORMED AND RECORDED	na	
CONFIRM GEOPHYSICAL DATA GENERATED IS PROPERLY STORED, MARKED AND TRACKED	na	
VERIFY COMPLIANCE WITH DATA PROCESSING QC PLAN	y	
VERIFY SOFTWARE DATA PROCESSING TRANSFER TO DATA MANAGEMENT SYSTEM	y	
CONFIRM DATA TRANSFER AND TRACKING PROCEDURES	y	
VERIFY DATA ARCHIVING IAW DATA MANAGEMENT PLAN PROCEDURES	y	
VERIFY COMPLIANCE WITH DATA QC PLAN	y	
CONFIRM EXCLUSION ZONE ESTABLISHED IAW SSHAP	na	
CONFIRM NOTIFICATIONS TO RESPONSE AGENCIES ARE ACCOMPLISHED IAW SSHP	y	
CONFIRM INTRUSIVE PROCEDURES COMPLIANCE	y	
MONITOR DAILY INSPECTION AND DOCUMENTATION OF EQUIPMENT INSPECTIONS BY OPERATORS	y	
CONFIRM ANOMALY IDENTIFICATION	na	
VERIFY DIG SHEET COMPLETION IS IAW WORK PLAN	na	
MONITOR MEC IDENTIFICATION PROCEDURES AND UXOSO VERIFICATION IAW WORK PLAN	na	
CONFIRM EXCLUSION ZONE EVALUATION/ MODIFICATION BASED ON MEC IDENTIFICATION	na	

FOLLOW-ON PHASE (cont)

DEFINABLE FEATURE	Y-YES, N-NO, N/A	WORK LOCATION, PERSONNEL PRESENT
MONITOR MEC HANDLING/DISPOSITION IS ACCORDING TO WORK PLAN	na	
VERIFY MEC ITEMS ARE PROPERLY DOCUMENTED, AND TRACKING COMPLETED	na	
MONITOR COMPLIANCE WITH COLLECTION POINT PROCEDURES IAW WORK PLAN	na	
CONFIRM MEC SEGREGATION AT COLLECTION POINTS DURING TRANSFER	na	
MONITOR MEC RELATED MATERIALS INSPECTION AND IDENTIFICATION IAW WP	na	
CONFIRM NON-MEC SCRAP DISPOSAL IAW DIRECTIVES	na	



Ravenna Army Ammunition Plant, Ravenna, OH
Contract No. W912QR-04-D-0040
RVAAP- 05 Winklepeck Burning Grounds

Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix X

Cumulative Signed Documentation/Correspondence

Tom Hope

From: Elgin, Kathryn S CIV NGOH [katie.elgin@us.army.mil]
Sent: Thursday, November 12, 2009 12:23 PM
To: Eileen Mohr; Kathleen Anthony
Cc: Bonnie Buthker; Todd Fisher; Brian Stockwell; Tom Hope; Thomas M LRL Chanda
Subject: RE: Remedial Action Completion Report for RVAAP-05 Winklepeck Burning Grounds Pads 61,61A,67 and 70 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sounds good. Keep as is. Thanks,

Katie Elgin
Environmental Specialist 2
OHARNG
Camp Ravenna Joint Military Training Center
(614)336-6136
(614)336-6135 (fax)

-----Original Message-----

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Thursday, November 12, 2009 1:13 PM
To: Kathleen Anthony; Elgin, Kathryn S CIV NGOH
Cc: Bonnie Buthker; Eileen Mohr; Todd Fisher; Brian Stockwell; Tom Hope; Thomas M LRL Chanda
Subject: RE: Remedial Action Completion Report for RVAAP-05 Winklepeck Burning Grounds Pads 61,61A,67 and 70 (UNCLASSIFIED)

All:

I have looked at the RTCs and they are okay from my perspective.

With respect to #4 and 5: The Mk19 range was cleaned up specifically to the range maintenance worker. Areas were cleaned up specifically to the targetry points, firing points and lanes that the range maintenance worker would traverse. The problem isn't whether or not the CUGs are protective of the other receptors (say for hunter/trespasser or trainee) because they probably would be for exposure times.... but I would wonder whether the description of the various other receptors are silent on where people can traverse. Because the range maintenance worker is what we cleaned up to and is specified in the ROD and RD, I would like to keep the CCR consistent with that. I know that we will need to look at other stuff with the overlapping ranges, but I think that is something that gets looked at in terms of Shaw's data gap report.

KATE: I am on a day-long conference call today, that is why I haven't gotten back to you. I will be at RVAAP tomorrow and can be reached via cell (330-389-0486) if needed.

Thanks.

Eileen

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response 2110 East Aurora Road Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Kathleen Anthony" <kanthony@pikainc.com> 11/6/2009 5:02 PM >>>
Katie,

Thank you for your quick response. MKM's responses to your additional comments are as follows:

1. MKM will revise the report throughout to state that the land was transferred to NGB and remove the references to the USPFO.

2. It is understood that you wanted a more generic statement regarding the protectiveness of the cleanup measures. However, the ROD, our contract, and our work plan specifically identify the remedial action objective is "to prevent exposure of the National Guard Range Maintenance Soldier to contaminants in soil exceeding risk-based cleanup levels extending to a maximum depth of four feet below ground surface (bgs)". We will make the sentences more generic if Ohio EPA concurs with the changes.

I will document these responses in an RTC table and send the table and revised text on Monday.

Kate Anthony
Senior Project Manager
5025 Arnold Avenue
McClellan, CA 95652
Office: (916) 920-9146
Fax: (916) 920-9163
Mobile: (713) 724-2893

From: Elgin, Kathryn S CIV NGOH [mailto:katie.elgin@us.army.mil]
Sent: Fri 11/6/2009 11:40 AM
To: Kathleen Anthony; Eileen Mohr
Cc: Brian Stockwell; Tom Hope; Thomas M LRL Chanda
Subject: RE: Remedial Action Completion Report for RVAAP-05 Winklepeck Burning Grounds
Pads 61,61A,67 and 70 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Kate and Brian:
I have reviewed the responses to my comments and have several comments:

1. General: Throughout the revised report, you reference that the land is transferred to NGB. You also reference that it is transferred to the United States Property and Fiscal Officer for Ohio. While it is pretty much the same because the USPFO for Ohio works for NGB, please use one OR the other.

2. Comments 4 and 5: I don't think you are understanding the meaning of my comment. The range maintenance soldier is protective of other receptors who will be accessing the site including the security guard maintenance worker, hunter/trapper, etc. The cleanup was completed to protect all the receptors who access the site. That is why I commented that the text seems limiting. I recommend that you delete the references at the beginning and end of the text referenced in the comments. For example change "To protect range maintenance soldiers, soils contaminated with MEC..." to "Soils contaminated with MEC..." You really don't need the reference to the range maintenance soldier and therefore the statement is more generic.

Please let me know if you have any questions. Thanks,

Katie Elgin
Environmental Specialist 2
OHARNG
Camp Ravenna Joint Military Training Center
(614)336-6136
(614)336-6135 (fax)

-----Original Message-----

From: Kathleen Anthony [mailto:kanthony@pikainc.com]
Sent: Thursday, November 05, 2009 6:26 PM
To: Eileen Mohr; Elgin, Kathryn S CIV NGOH
Cc: Brian Stockwell; Tom Hope
Subject: Remedial Action Completion Report for RVAAP-05 Winklepeck Burning Grounds Pads 61, 61A, 67 and 70

Eileen/Katie,

Responses to your comments on the Remedial Action Completion Report for Winklepeck Burning Grounds Pads 61/61A, 67 and 70 and the final text are attached. Please let me know if MKM's responses to your comments are acceptable. Thank you.

Kate Anthony
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Mobile: (713) 724-2893
Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE



Remedial Action Completion Report for RVAAP- 05 Winklepeck Burning Grounds Pads 61/61A, 67, and 70.

Appendix Y

Comment Response Table

**PRELIMINARY DRAFT WINKLEPECK BURNING GROUNDS REMEDIAL ACTION COMPLETION REPORT FOR WINKLEPECK BURNING
 GROUNDS PADS 61/61A, 67, AND 70. RVAAP- 05 WINKLEPECK BURNING GROUNDS
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Comment Number	Page or Sheet & Line No.	New Page or Sheet	Comment	Recommendation	Response
<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-1	Page iii Tables Sect	Page iii	No page numbers identified for the listed Tables	Please insert	Page numbers have been identified for the listed tables.
A-2	Page iii Figures Sect	Page iii and Appendix B	The Figures section needs to be identified as an Appendix; in some manner the reader has to be made aware that the Figures are an Appendix to the document versus contained within the document		The Figures section is now identified as Appendix B.

**PRELIMINARY DRAFT WINKLEPECK BURNING GROUNDS REMEDIAL ACTION COMPLETION REPORT FOR WINKLEPECK BURNING
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Comment Number	Page or Sheet & Line No.	New Page or Sheet	Comment	Recommendation	Response
<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-3	Page iii Figures Sect	Page iii and Appendix B	Various deficiencies associated to the listed Figures e.g. Fig.2 says "Location Map" but reference the actual Fig.2. page and it reads "Site Map"; Fig.3 references "Site Map" but the actual Fig.3 sheet title reads "WBG Mec Clearance"; Pad Numbers not identified in Figs. 5 & 6 nor are Figs. titled correctly; Fig.7 is a meaningless drawing to the reader – there is no geophysical illustration that shows where this segmented circle is even located on the installation.; Fig.8 not titled correctly	Please correct all mentioned deficiencies noted within the Figures Appendix Section	<p>The figure titles have been changed to match the listings in the table of contents.</p> <p>The pad numbers are identified on Figures 5 and 6. Figure 5 shows Pads 61 and 61A. Figure 6 shows Pads 67 and 70.</p> <p>The title of Figure 7 has been changed to: Grid System Used to Collect 4 MI Samples From the 100 ft X 100 ft Demolition Area</p> <p>A note has been added to Figure 7 stating: The Ohio EPA requires 4 MI samples be collected from the designated demolition area following demolition operations - (i.e., one 30 aliquot composite sample from each quadrant of the 100 ft X 100 ft foot area). This figure depicts the grid system used for collecting the 4 MI samples from the 100 ft X 100 ft foot area.</p> <p>The title of Figure 8 has been changed to : Final Project Schedule</p>
A-4	Page iii Line 35	Page iv		Please insert " – CD" at the end of the listing	"-CD" has been added at the end of the listing for Appendix B (Now Appendix C).

**PRELIMINARY DRAFT WINKLEPECK BURNING GROUNDS REMEDIAL ACTION COMPLETION REPORT FOR WINKLEPECK BURNING
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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-5	Page iii Line 36	Page iv	Appendix C says "Project Permits" but, there is only one permit application within the Appendix; is a permit missing?	Please explain	The title of Appendix C (Now Appendix D) has been changed from "Project Permits" to "Construction Storm Water Permit".
A-6	Page iii Line 40	Page iv	Listed TOC Appendix title does not match the title page of Appendix G	Please correct	The appendix title page for Appendix G (Now Appendix H) has been changed to match the TOC appendix title. The title page for Appendix H now reads "Soil Stockpile Removal Summary".
A-7	Page iv Line 17	Page iv		Please insert " – CD" at the end of the listing	"-CD" has been added at the end of the listing for Appendix V (Now Appendix W).
A-8	Page v Line 7	Page v		Change "BRACO" to "BRAC-D" with correct title for acronym; making this same correction throughout the entire report	"BRACO" has been changed to "BRAC-D" throughout the entire report.
A-9	Page vi Line 3	Page vi	Regulator prefers to have their acronym as "Ohio EPA"	Please correct accordingly here and within the main document (approx 4 citations)	The acronym for the Ohio EPA has been changed from "OEPA" to "Ohio EPA" throughout the entire report.
A-10	Page vi Line 23	Page v	Since CY 2008 RTLS is no longer a viable term since OHARNG has changed their formal title	"Camp Ravenna" is now the acronym for "Camp Ravenna Joint Military Training Center" please make the necessary changes.	References to "RTLS" have been changed to "Camp Ravenna" throughout the entire report.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-11	Page 1 Lines 8-9	Page 1	MKM, 2005a does not match title referenced in Section 9 – Page 38	Please correct to whichever is the correct title	The reference to “MKM, 2005a” was changed to “MKM, 2005c” to match the title referenced in Section 9 – Page 38.
A-12	Page 2 Lines 2-3	Page 2	Reference Comment #10	Reference Recommendation #10 – please review the entire RA Completion Report and make all the necessary replacements deleting “RTLS” and replacing with Camp Ravenna	See response to comment #10.
A-13	Page 2 Lines 16-17	Page 2	Author calls-out “...three small intermittent streams.....” these are not natural streams nor spring fed conveyances; the mentioned are drainage ditches that convey surface water run-off during storm events	Please reword this sentence excluding the word “streams”	The sentence has been revised to read: “Additionally, three small storm water drainage ditches cross the site from west to east and flow into Sand Creek.”
A-14	Page 3 Line 1			Change to: “...operated as a government-owned contractor-.....”	The sentence has been revised to read: “When RVAAP was operational, Camp Ravenna did exist and the entire 21,683-acre parcel was a government-owned, contractor-operated (GOCO) industrial facility.”

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-15	Page 4 Line 1	Page 4		Please identify the year that the Mark 19 range was constructed to give the reader a better chronology of the range's existence.	The first sentence of the 7 th paragraph in Section 1.4 has been changed to read: "OHARNG constructed a Mark 19 Grenade Machinegun Range, at WBG, that was first opened for use on December 14, 2006."
A-16	Page 4 Line 5	Page 4		Delete "the land" and replace with "Lane 1"	The sentence has been revised to read: "Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range."
A-17	Page 4 Lines 12-14	Page 4	The ESS does not direct the removal of the WBG contaminated soils – that is an IRP activity	Please revise the sentence to correctly read what actions are dictated by the ESS	The sentence has been revised to read: "MEC and some associated contaminated soils were removed according to procedures in the approved Department of Defense Explosives Safety Board (DDESB) Explosive Safety Submittal (ESS) and associated project work plans (MKM, 2005a, and 2005c)."

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-18	Page 4 Lines 25-34	Page 4	Most of what's being said in these 3 sentences has already been conveyed in Section 1.4	Please rewrite the statement(s) accordingly to avoid redundancy	The statements have been re-written to avoid redundancy. The paragraph now reads: "The RVAAP installation has AOCs that are currently being addressed through the CERCLA process. As areas are remediated, the U.S. Army Base Realignment and Closure Division (BRACD) is transferring remediated areas to OHARNG. WBG has a final (approved) RI and a final FFS in place, which proposed remedial alternatives. The final lane (Lane 1) of the Mark 19 Grenade Machinegun Range has yet to be transferred to the OHARNG as the remaining remediation has yet to be completed."
A-19	Page 5 Line 7	Page 5		Revise statement to read: "All major activities of the RA were coordinated with:" and delete the remains of the existing statement	The statement has been revised to read: "All major activities of the RA were coordinated with:"

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-20	Page 6 Table 1-1	Page 6	Why is not asbestos included in the Cleanup Goals Table	Please explain	The asbestos cleanup goal has been added to Table 1-1 along with a note stating: “asbestos cleanup goal is to non-detect; the detection limit for polarized light microscopy is 0.25%.”
A-21	Page 6 Table 1-1 & Line 5	Page 6	As stated within the July 2008 WBG Work Plan, clean-up levels are referenced to the 2005 Phase II work plan which further references back to the Facility Wide Sampling and Analyses Plan 2001. At the time of the published FWSAP, the Small Arms Range Maintenance Soldier was not a risk assessment vector. Why is this vector being identified; if cleanup levels (e.g. Pad #67) were referenced against the Mark 19 Range Soldier?	Please explain	References to, and cleanup goals for, the Small Arms Range Maintenance Soldier have been removed throughout the entire report.
A-22	Page 7 Lines 5-13	Page 7		For purposes of sequential organization, please place the site start-dates in chronological order	The site start dates at the beginning of Section 2.0 have been placed in chronological order.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-23	Page 7 Line 14	Page 7		Please revise to read "...describe the RA field activities and....."	The sentence has been revised to state: "The following sections describe the RA field activities and analytical results."
A-24	Page 7 Line 23	Page 7		Please remove "At a minimum"	"At a minimum" has been removed from the sentence. The sentence now reads: "MKM was required to comply with the requirements of the Ohio EPA Authorization for Storm Water Discharges Associated with Construction Activity under the National Pollution Discharge Elimination System (NPDES) per the Ohio Administrative Code (OAC) Rule 3745-38-06 (see permit in Appendix C); the Ohio EPA Notification of Demolition and Renovation (processed and enforced through the Akron Regional Air Quality Management District) as required for asbestos removal operations (Appendix D); and the Ohio EPA MEC Demolition Notification, as part of the permit requirements for the proposed remedial action activities (Appendix E)."

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-25	Page 7 Lines 22-30	Page 7	The Explosive Safety Submission is not included	Please include the ESS with the appropriate Appendix reference	<p>The ESS has been included in Section 2.1 and the ESS reference is included in Section 9.0. Section 2.1 now reads:</p> <p>Before mobilizing to the site, the MKM Field Superintendent verified that all applicable notifications and approvals had been obtained. MKM was required to comply with the requirements of the Ohio EPA Authorization for Storm Water Discharges Associated with Construction Activity under the National Pollution Discharge Elimination System (NPDES) per the Ohio Administrative Code (OAC) Rule 3745-38-06 (see permit in Appendix C); the Ohio EPA Notification of Demolition and Renovation (processed and enforced through the Akron Regional Air Quality Management District) as required for asbestos removal operations (Appendix D); the Ohio EPA MEC Demolition Notification, as part of the permit requirements for the proposed remedial action activities (Appendix E); and the Explosives Safety Submission, Revision 3, Amendment 3 (ESS) (MKM, 2008a). The Ohio Department of Health was notified prior to asbestos abatement work (Appendix D). No other permits were required for the execution of the WBG RA.</p>

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Comment Number	Page or Sheet & Line No.	New Page or Sheet	Comment	Recommendation	Response
<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-26	Page 10 Lines 14-15	Page 10		Please rephrase this sentence to incorporate the fact that the circumstance leading-up to the TNT analysis began as an anomaly during the gas chromatography analysis for the RDX explosive	<p>The 4th paragraph in Section 2.4.1 has been revised to state:</p> <p>“All Pad 67 confirmation samples were being analyzed for RDX by Method 8330. The Method 8330 analysis is capable of detecting several other explosives constituents, however, it was requested that the laboratory only report RDX detections because RDX was the only explosives contaminant of concern identified during the Remedial Investigation (SAIC, 2005a). During the November confirmation sample analysis by Method 8330, the laboratory noticed an elevated concentration of TNT and communicated the finding to MKM. After consultation with the USACE and Ohio EPA, it was decided that the Pad 67 excavation would be expanded to remove the TNT contamination identified at this location. On December 15, 2008, 50 cubic yards of additional soil were removed from the Pad 67 excavation area. Prior to initiating the additional excavation operations, runoff water that had collected in the excavation cavity was removed and containerized for subsequent waste characterization sampling and disposal. A copy of the disposal records for the Pad 67 runoff water is provided in Appendix J. Upon completion of the Pad 67 over-excavation operations, confirmation MI soil samples were collected from the bottom and sidewalls of the excavation for TNT analysis. Field forms and laboratory analytical results are included in Appendix I of this report.”</p>

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-27	Page 12 Line 4	Page 12		Remove the “s” off the end of “soils”	The “s” has been removed from “soils”. The sentence now reads: “At Pad 61A, a total of 2 MI soil samples were collected for asbestos from the bottom of the excavation.”
A-28	Page 16 Table 2-2	Page 16		Please either spell-out MK; P.D.; and B.D. within the Table or place the abbreviations in the Abbreviation and acronym list	The abbreviations have been spelled out in Table 2-2.
A-29	Page 17 Lines 14-19	Page 17	There were 4 MI (120 aliquots) samples taken within a 100 ft by 100 ft area; why were so many MI samples required for the sized area? Normally, an area of this size (decision unit) only requires one or possibly 2 MI samples	Please identify the reason for the addition MI battery of samples in order we are not setting precedent to future MI sampling scenarios	Please see the response to Comment #3 relative to Figure 7.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-30	Page 18 Line 4	Page 19		Remove the word “minimum”; if the liner was not a 6-mil thickness then state specifically the thickness of the liner used.	The words “minimum 6-mil thickness” has been removed from the sentence. The sentence now reads: “At the end of each day, the stockpile was covered with a one piece, heavy duty canvas tarp and secured to prevent wind damage to the cover and stockpile.”
A-31	Page 20 Lines 34-35	Page 20	To say, “...no ACM present...” is not wholly true based upon the issues that ensued during excavation of Pad 67 and the soil stockpile footprint	Please be more succinct in your quantification for the presence of asbestos; e.g. below detectable (reportable) limits of 0.25% concentration	The sentence has been revised to state: “All resamples confirmed that ACM concentrations are non-detect (i.e., result was not detected at or above method detection of 0.25%) at all of the RA excavation sites; including the stockpile footprint area.”
A-32	Page 21 Line 3	Page 21	Please reference Comment #10		See response to comment #10.
33	Page 21 Lines 21-22	Page 21	This statement needs to be better qualified being the fact that MEC items can be identified as generated hazardous waste.	Please respond	The statement has been changed to: “There were no hazardous wastes sent for off site disposal during the WBG RA operations.”

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-34	Page 22 Tables 2-3 & 2-4	Page 22 Tables 2-3 & 2-4	Again, identifying with a land-use vector, the Small Arms Range Maintenance Soldier. See comment #21	Unless it is explained how this vector is applicable within confirmatory analyses then it is recommended it be deleted from reference	See response to comment #21
A-35	Page 22 Table 2-3 reference legend	Page 22 Table 2-3 reference legend	Lines 3 through 6 incorrectly indented	Please correct	The formatting of lines 3 through 6, below Table 2-3, has been corrected so that they are now indented correctly.
A-36	Page 22 Table 2-4 Line 15	Page 22 and 23 Table 2-4 and 2-5	“RL” is not fully spelled-out anywhere; not within the Acronyms & Abbreviations List. Please spell-out the abbreviation		“RL” has been spelled out as “reporting limit” in the notes of Table 2-4 and Table 2-5.
A-37	Page 22 Table 2-3	Page 22 Table 2-3	Row: Dibenzo(a,h) anthracene - Column FLR2-SO --- ND is not reference in the table’s legend	Please fix	“ND” has been defined in the Table 2-3 legend as: “ND – results were not detected at or above the stated limit”
A-38	Page 22 Table 2-4	Page 22 Table 2-4	Second to the last row; all columns read: “1%***”. Now mention in the table’s legend, what does “***” represent?	Please insert appropriate explanation into the legend	The asterisks following 1% in all columns of the last row of Table 2-4 are defined in the table’s legend as: “*** - Based on this type of heterogeneous sample, the limit of detection is 1%”

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-39	Page 22 Table 2-4	Page 22 Table 2-4	Last Row- Asbestos (04.20.09) reads “ND” across. “ND” is not explained in the Table’s legend	Please fix	The “ND” in the last row of Table 2-4 has been defined as: “ND = results were not detected at or above the stated limit of 0.25%”
A-40	Page 22 Line 16	Page 22 Table 2-4	Asbestos data explanation missing within the legend.	Please insert	The asbestos data explanation has been added to the Table 2-4 legend. See response to comments 38 & 39.
A-41	Page 22	Page 22	See Comments 34 and 21	Reference Comment #34	See response to comment #21
A-42	Page 23 Line 8	Page 23 Table 2-5	See Comment 36 – RL not spelled-out		See response to comment #36.
A-43	Page 23 Tables 2-5 & 2-6	Page 23 Tables 2-5 & 2-6	See Comments 34 and 21	Reference Comment #34	See response to comment #21

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-44	Page 23 Tables 2-5 & 2-6	Page 23 Tables 2-5 & 2-6	The author has “ND” representing both chemical and asbestos fiber concentrations. The legend calls-out “ND” to represent <0.25%; presuming this is not correct for a less than detectable limit for the chemical concentration	Please revise accordingly	The legend for Tables 2-5 and 2-6 has been revised to include separate explanations for “ND” for the organic and asbestos analysis. <u>Organic Analysis:</u> “ND – results were not detected at or above the stated limit” <u>Asbestos Analysis:</u> “ND = results were not detected at or above the stated limit of 0.25%”
A-45	Page 24 Lines 16-17	Page 24	Is not AT Laboratories an USACE-approved entity?	Explain	AT Laboratories is not USACE approved; it is American Industrial Hygiene Association (AIHA) certified. The following sentence was added to the text: “Final asbestos confirmation samples were analyzed at Assay Technology, in Boardman, OH, an American Industrial Hygiene Association certified laboratory.”
A-46	Page 24 Line 25	Page 24	FSAP not identified in the Acronym – Abbreviation List also spell-out the abbreviation where first introduced in the report		“FSAP” has been changed to “SAP”. SAP is identified in the Acronym Abbreviation List as Sampling and Analysis Plan.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-47	Page 24 Line 36	Page 24	Place a colon after “requirements” instead of a period ?		A colon has been placed after “requirements” instead of a period. The sentence now reads: “These samples were collected to meet the following requirements:”
A-48	Page 25 Lines 16-17	Page 25	BRACO is BRAC-D --- What situation –chain of events triggers MKM turnover of files to the Army? Does the Army have to formally ask for the records or does MKM at some point in time submit the records to the Army?	Please explain and incorporate into Line 17 for a matter of record	The following sentence has been added to the last paragraph in Section 2.12.1: “Upon final approval of the Remedial Action Completion Report for Winklepeck Burning Grounds Pads 61/61A, 67, and 70, final approval of completion of all contract requirements, all records will be forwarded to the Army at RVAAP Building 1037.”

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-49	Page 27 Lines 4-12	Page 27	There is no mention of Open Detonation Area #2 restoration.	Please include appropriate description as provided for WBG	<p>Section 2.13 has been revised to state:</p> <p>“Upon completion of the RA activities, final site restoration operations were initiated at the WBG RA pad locations, soil stockpile area, and MEC demolition area utilized at Open Detonation Area #2 on May 12 and completed May 21, 2009. Restoration activities included grading, seeding, and mulching. Additionally, all of the WBG interior haul roads that were used to transport excavated soils to the process area were regraded and backfilled (as needed) using railroad ballast from an on-site source. The main gravel haul road used during loadout of the contaminated soil stockpile (Greenleaf Road entrance) was regraded and backfilled, with crushed limestone road fill material (304s) from Freedom Materials in Ravenna, Ohio. All haul roads were restored to match pre-existing site conditions and to the satisfaction of the OHARNG.”</p>

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-50	Page 28 Line 2	Page 28 and Appendix B	Referencing Figure 8 shows the reader a sheet of paper titled WBG's RA Draft Report; in the bottom left hand corner of that Figure 8 it says: "Project LL1 prelimschedule Date 6/9/09". Also note too as a reader, an exception can be taken by other stakeholders in a comparative review between Figure 8 and Page 7's listing of site activities. This may or may not be issue but is brought to the attention of the author.	Please make Figure 8 more consistent to what it is supposed to be representing.	The title and content of Figure 8 have been revised.
A-51	Page 31 Line 10 Appendix B	Page 31 and Appendix C	The reader reviews Appendix B and finds only two gate logs both dated September 8 with same personnel sign-in; and no gate logs for ODA2. The weekly report annotates safety meetings and training sessions were conducted but, there is no record of what PIKA personnel received training or attended safety meetings. Also reference Comment 50; All the preliminary schedules in App. B have the same problem with the Load Line identifiers being mentioned.		Gate Logs for September '08, October '08, November '08, and December '08 have been included in Appendix B (Now Appendix C). Attendance of safety meetings and training sessions was recorded on task order safety meeting logs. These are internal documents and are not included in the completion report. The preliminary schedules in Appendix B (Now Appendix C) have been revised to exclude Load Line identifiers.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-52	Page 33 Line 33	Page 33	<p>“No-safety-related incidents occurred during the RA.” What about the 4Nov’08 lead (Pb) concern that arose in the field body-sample cassettes requiring operating personnel to done Level-C PPE; that’s not considered a safety incident? Also, the operator that fainted but, that was more specifically related to one person.</p>		<p>The two issues mentioned are not considered reportable safety related incidents.</p> <p>The lead concern arose from personnel air monitoring samples that showed elevated levels of lead after analysis. It was determined by both the lab and PIKA Corporate Safety Manager (Certified Industrial Hygienist) that the initial personnel sample data was in error. The error resulted from both collecting and packaging/shipping the samples incorrectly (i.e., no cassette caps in place during shipment). However, as a precaution work was halted and blood lead level samples were collected from all site personnel at the PIKA designated Work Care Facility in Stow, Ohio. The blood lead levels indicated normal readings for all personnel (i.e., no lead exposures). Work resumed following receipt and review of the lab data and another round of personnel air monitoring was collected. As a safety precaution, work resumed utilizing level C until the follow-on sample results were received which verified lead concentrations were below the OSHA established exposure limits.</p> <p>Relative to the individual that fainted - no accident or injury resulted from the situation. It was determined by the local emergency response personnel that the worker simply over exerted himself, while traversing the soil stockpile to remove a tarp, overheated and fainted. The follow-up physical conducted by a licensed physician verified the individual was healthy and cleared for work. No changes have been made to the text.</p>

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-53	Page 35 Lines 9-10 Appendix U & V	Page 35, Appendix V and W	In reviewing both datasets of quality control data logs; there were no inspector/reviewer signatures. This in itself fails corporate QC protocol	Please explain.	The logs in Appendix U (Now Appendix V) contain the inspector (SUXOS) signature and the reviewer (Safety Officer –QA/QC) signature. Inspector signatures have been added to the logs in Appendix V (Now Appendix W). By design, these logs are only signed by the inspector.
A-54	Page 37 Line 8	Page 37		Delete: “It is recommended that” the begin the sentence with: The LUCs will be initiated upon the” Continuing –on with the same verbiage as before.	The sentence has been revised to state: “LUCs for the WBG are specified in the final ROD and the approved Remedial Design (RD) and will also be specified in complete detail in the forthcoming Property Management Plan (PMP). ”
A-55	Page 37 Lines 10-12	Page 37	Based upon what was directed by OHEPA for WBG TNT CUGs, it is presumed the “Remedial Action Objective” is preventing exposure of the Mark 19 Range Soldier; not the Small Arms Range Maintenance Soldier	Make the necessary changes accordingly unless there’s substantive explanation for no change.	The sentence has been changed to state: “The Remedial Action Objective of preventing exposure of the Mark 19 Range Soldier to site specific contaminants in soil has been achieved through the RA.”
A-56	Appendix I	Appendix J		For the benefit of the reader deciphering Sample IDs (e.g. WBG-SSP-003 or WBGcs-071/401m-SDW-SO) please insert an information sheet at the beginning of the Appendix that delineates Pad No./Area and what it references pertinent to each Sample ID	Logs have been added to the beginning of Appendix I (Now Appendix J) and Appendix N (Now Appendix O) to assist in deciphering Sample IDs and the Pad No/Area to which they apply.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-57	Appendix T	See Response	Where is the rest of the lead (Pb) cassette monitoring data? There is only data for 6,7, & 10 Nov 2008.	Please explain	See response to comment # 52 Previous lead monitoring data was not included because it was found to be erroneous.
A-58	Appendix A	Appendix C		Include a record in Appendix B for the final ODA#2 walk-thru and the 2 nd walk-thru review of WBG Stockpile footprint site restoration	The final weekly and monthly reports have been added to Appendix B (Now Appendix C). These include documentation of the final ODA#2 walk-thru and the 2 nd walk-thru review of WBG Stockpile footprint site restoration.

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<i>USACE - Louisville (Thomas M. Chanda)</i>					
A-59	General Format Guidelines	See Response		As noted from the RVAAP Admin Records' POC Ms Gail Harris on 15Jun09 are corrected in the draft version of this Completion Report. Deficiencies noted previously were as follows: 1) Did not use correct AOC nomenclature i.e., RVAAP- 05 Winklepeck Burning Grounds in the title; 2) Did not receive a Letter of Transmittal (LOT) with submission Although, it was checked as 'YES' on the Compliance Checklist. Even though a LOT was sent to reviewers, a copy also is needed for the admin record files; 3.) Standard Form 298 in section 16a,b,c and 17 were not filled in, i.e. with 'NA' if not applicable; 4.) Bookmarks are out-of-sequence and delete duplication of appendices	The listed deficiencies have been corrected for the Final report submittal.

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-1	General	See Response	It is my opinion that this document will be able to move directly from pre-draft to final, unless another stakeholder has a differing opinion.	Make sure that you remove disclaimers, line numbers (etc.) in the final version.	Line numbers have been removed from the final version of the document.
O-2	Page v Line 7	Page v	Change acronym.	I believe that it is now BRAC-D (division instead of office).	“BRACO” has been changed to “BRAC-D” throughout the entire report.
O-3	Page v after line 20	Page v	Addition requested.	Add ESD (Explanation of Significant Differences) to the acronym list.	ESD (Explanation of Significant Differences) has been added to the acronym list.
O-4	Page v after line 41	Page v	Addition requested.	Add NGB (National Guard Bureau) to the acronym list.	NGB (National Guard Bureau) has been added to the acronym list.
O-5	Page vi line 3	Page vi	Change acronym.	Change OEPA to Ohio EPA.	“OEPA” has been changed to “Ohio EPA”.
O-6	Page vi after line 10	Page vi	Addition requested.	Add PMP (Property Management Plan) to the acronym list.	PMP (Property Management Plan) has been added to the acronym list.
O-7	Page vi after line 20	Page vi	Addition requested.	Add RD (Remedial Design) to the acronym list.	RD (Remedial Design) has been added to the acronym list.

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-8	Page 4 Line 4	Page 4	Text change requested.	Change text to read: "...had yet to be completed."	The sentence now reads: "The final lane (Lane 1) has yet to be transferred to the OHARNG as the remaining remediation (referenced in this document) had yet to be completed".
O-9	Page 4 Line 4-7	Page 4	Text change requested.	Change the sentence to read: "Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the National Guard Bureau (NGB) and subsequently licensed to OHARNG for the construction of the final lane."	The last sentence of the 7 th paragraph in Section 1.4 now reads: "Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the National Guard Bureau (NGB), who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range."
O-10	Page 4 Line 23-24	Page 4	Changes requested.	Change Office to Division on line 23 and BRACO to BRAC-D on line 24.	See the response to comment number 2.

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-11	Page 4 Line 29	Page 4	Text change requested.	Change text to read: "...had yet to be completed."	The sentence now reads: "The final lane (Lane 1) of the MK 19 Grenade Machinegun Range has yet to be transferred to the OHARNG as the remaining remediation had yet to be completed."
O-12	Page 4 Line 29-31	Page 4	Text change requested.	Change the sentence to read: "Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the National Guard Bureau (NGB) and subsequently licensed to OHARNG for the construction of the final lane."	The 5 th sentence of the 1 st paragraph in Section 1.5 now reads: "Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range."
O-13	Page 5 Line 10	Page 5	Change acronym.	Change OEPA to Ohio EPA.	"OEPA" has been changed to "Ohio EPA".
O-14	Page 7 Line 7	Page 7	Date change.	Change end date for Pad 61/61A end date to 11/06/08 (i.e. not 2009).	The end date for Pad 61/61A has been changed to 11/06/08.

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-15	Page 8 Line 15	Page 8	Text change.	Change text to read: "... sifting plant and had MEC..." (Add "had"?)	The sentence now reads: "Soil that had been processed through the sifting plant, and had MEC removed, was temporarily staged at the south end of the plant where processed soil exited the operation".
O-16	Page 10 Line 15	Page 10	Add the following language at the end of the sentence on line 15; and strike the sentence that starts on line 15.	"A clean-up number for TNT was generated and ultimately approved by USACE and Ohio EPA. Ohio EPA made the determination that the preparation of a formal Explanation of Significant Differences (ESD) for the signed ROD was not required. Instead, the decision was made to document the TNT clean-up number in this remedial action completion report. Because of the generation of a TNT clean-up number, it was determined that the excavation at Pad 67 would need to be expanded." Then go into the language that you have that starts on line 17 (On December....).	The following has been added after the 3 rd sentence of the 4 th paragraph in Section 2.4.1: "A clean-up number for TNT was generated and ultimately approved by USACE and Ohio EPA. Ohio EPA made the determination that the preparation of a formal Explanation of Significant Differences (ESD) for the signed ROD was not required. Instead, the decision was made to document the TNT clean-up number in this remedial action completion report. Because of the generation of a TNT clean-up number, it was determined that the excavation at Pad 67 would need to be expanded."

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-17	Page 13 Line 17	Page 13	Punctuation.	Remove extra period at the end of the sentence.	The extra period has been removed.
O-18	Page 17 Line 22	Page 17	Text change.	Change text to read: "...All non-MD scrap..."	The sentence now reads: "All non-MD scrap items were secured in standard rolloff containers. All MD scrap items were secured in lockable rolloff containers."
O-19	Page 17 Line 23	Page 17	Text change.	Change text to read: "... secured in lockable..."	The sentence now reads: "All MD scrap items were secured in lockable rolloff containers".

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-20	Page 27 Line 20-21	Page 27	Text change.	Change text to read: "Final site demobilization occurred on_____ (insert date) and final site restoration walkover/approval occurred on _____."	Section 2.14 has been re-written. This Section now reads: "The soil screening and conveyor separator equipment was disassembled and transported to a materials storage facility in Youngstown, Ohio. All heavy equipment, site trailers and miscellaneous tools were demobilized from the site. The final site walk with the project stakeholders was conducted on June 8, 2009. During the final walkthrough small amounts of non-MD scrap and one piece of MD scrap were noted within the former process area. To ensure all metal items were removed from the area, an excavator equipped with an electro-magnetic attachment was used to sweep the area on June 11, 2009. On July 16, 2009 MKM conducted a follow-on walk through of the former process area with OHARNG and the RVAAP Facility Manager. All parties concurred that the site cleanup and restoration were complete. The RVAAP Facility Manager also inspected the Open Detonation Area #2, which was used for demolition of recovered WBG RA MEC items, and informed MKM that the restoration of Open Detonation Area #2 was also complete."

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-21	Page 37 Line 6	Page 37	Text change requested.	Change text to read: "All confirmation sample analytical results were below WBG clean-up goals; and asbestos was not detected in any confirmation samples."	The last sentence of the 1 st paragraph in Section 8.0 now reads: "All confirmation sample analytical results were below WBG clean-up goals; and asbestos was not detected in any confirmation samples."
O-22	Page 37 Line 8-10	Page 37	Remove this sentence from the text.	Replace the sentence with the following: "LUCs for the WBG are specified in the final ROD and the approved Remedial Design (RD) and will also be specified in complete detail in the forthcoming Property Management Plan (PMP). The LUCs are enforceable under the Directors Final Findings and Orders (June 2004)."	The 1 st two sentences of the 2 nd paragraph in Section 8.0 were replaced with the following: "LUCs for the WBG are specified in the final ROD and the approved Remedial Design (RD) and will also be specified in complete detail in the forthcoming Property Management Plan (PMP). The LUCs are enforceable under the Directors Final Findings and Orders (June 2004)."

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-23	Page 37 Line 12-13	Page 37	Text change.	Change text to read: "Upon approval of this document, the land is suitable to transfer to the NGB (with subsequent leasing to the OHARNG) for the construction of the final firing lane (Lane 1) of the Mark 19 Grenade Machinegun Range."	The last sentence of the 2 nd paragraph in Section 8.0 were replaced with the following: "Upon approval of this document the land is suitable to transfer to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range."
O-24	Page 38	Page 38	Addition requested.	Add the Ohio EPA MEC Notification Procedure to the reference list.	The following reference has been added to the reference list on page 38: "MKM, 2009a. <i>Munitions and Explosives of Concern (MEC) Demolition/Disposal Notification</i> . Ravenna Army Ammunition Plant, Ravenna, Ohio."
O-25	Field Sampling Reports	See Response	I really like what you did on a number of your field logs; i.e. where you added some check boxes into the sample description section (ex. color, odor, staining, etc.)	Consider adding soil type to this section (ex. clay, silt, sand and gravel etc.).	A section for describing soil type will be added to future field forms.

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<i>Ohio EPA (Eileen T. Mohr)</i>					
O-26	RD Language in the appendices	See Response	Substitution requested.	The RD language has gone final. Please insert the final approved version of this language into the revised document.	Appendix W, containing the RD language has been deleted from the report based on other stakeholder comments. The RD is referenced in the report as indicated in the response to comment # 22.

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<i>OHARNG-Camp Ravenna (Katie Elgin)</i>					
R-1	General	See Response	There are references to RTLS in this report. Please change all references to Camp Ravenna Joint Military Training Center or Camp Ravenna (for short).		References to "RTLS" have been changed to "Camp Ravenna" throughout the entire report.

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<i>OHARNG-Camp Ravenna (Katie Elgin)</i>					
R-2	Page 2 Line 29	Page 2	21,419 acres is incorrect. Please use the acreage and description from the previously approved facility description.		The paragraph beginning on line 29 has been revised to read: "When the RVAAP IRP began in 1989, RVAAP was identified as a 21,419-acre installation. The property Boundary was resurveyed by OHARNG over a 2-year period (2002 and 2003) and the total acreage of the property was found to be 21,683.289 acres. As of February 2006, a total of 20,403 acres of the former 21,683-acre RVAAP has been transferred to the National Guard Bureau (NGB) and subsequently licensed to OHARNG for use as a military training site. The current RAAP consists of 1,280 acres scattered throughout the OHARNG Camp Ravenna Joint Military Training Center, herein referred to as Camp Ravenna. When RVAAP was operational, Camp Ravenna did exist and the entire 21,683-acre parcel was a government-owned, contractor-operated industrial facility. The RVAAP IRP encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP. References to RVAAP in this document are considered to be inclusive of the historical extent of RVAAP, which is inclusive of the combined acreages of the current Camp Ravenna and RVAAP, unless otherwise specifically stated."

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<i>OHARNG-Camp Ravenna (Katie Elgin)</i>					
R-3	Page 4 Line 3 and 28	Page 4	<p>“The final lane (Lane 1) has yet to be transferred to the OHARNG as the remaining remediation (referenced in this document) has yet to be completed. Once the remediation is complete, the land will be transferred to the OHARNG and the remaining firing lane will be constructed.” We need to be careful here because it sounds like the remediation has yet to be completed and this is a remediation completion report. Suggested revised text: “The final lane (Lane 1) has yet to be constructed as the property has not been transferred to the OHARNG. With the completion of remediation, Lane 1 will now be considered for transfer to the OHARNG.”</p>		<p>The text has been changed as follows:</p> <p>“The final lane (Lane 1) has yet to be transferred to the OHARNG as the remaining remediation (referenced in this document) had yet to be completed. Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range.”</p>
R-4	Page 4 Line 7	Page 4 See Response	<p>“To protect range maintenance soldiers, soils contaminated with MEC ...” The first part of this sentence is very limiting. The MEC and chemical contamination was removed to facilitate future use and protect future users. This sentence needs revised to reflect this.</p>		<p>The only receptor listed in the ROD is the range maintenance soldier. To be consistent with the ROD, this language was not changed.</p>

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<i>OHARNG-Camp Ravenna (Katie Elgin)</i>					
R-5	Page 4 Line 20	Page 4 See Response	“... and required removal to protect the range maintenance soldier.” Again, this sentence is limiting. The transite was removed to protect future users and facilitate the range construction. Sentence needs revised to reflect that.		The only receptor listed in the ROD is the range maintenance soldier. To be consistent with the ROD, this language was not changed.

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R-6	Page 4 Line 24	Page 4	<p>“WBG has a final approved RI and a final FFS in place, which proposed remedial alternatives. As such, OHARNG constructed a Mark 19 Grenade Machinegun Range at this location.”</p> <p>All references to ‘Mark 19 Range’ should be changed to ‘MK 19 Range’.</p> <p>Also, this statement makes it sound like the range was allowed to be constructed because of the Final FFS and RI. The 180 acres where the range was constructed would have had some remediation prior to construction whether it was MEC or COC related. It sounds like none was completed. This needs to be reflected in the statement.</p>		<p>All references to “Mark 19 Range have been changed to “MK 19 Range”.</p> <p>The sentence beginning with “As such...” was removed and the remaining paragraph was revised to indicate that remediation is complete.</p> <p>The paragraph now reads:</p> <p>“d process. As areas are remediated, the U.S. Army Base Realignment and Closure Division (BRACD) is transferring remediated areas to OHARNG. WBG has a final (approved) RI and a final FFS in place, which proposed remedial alternatives. The final lane (Lane 1) of the MK 19 Grenade Machinegun Range has yet to be transferred to the OHARNG as the remaining remediation had yet to be completed. Remediation is complete, and subsequent to this document approval and transfer document preparation, the land will be transferred from the Army to the NGB, who in turn licenses it to the OHARNG for construction of the final firing lane (Lane 1) of the MK 19 Grenade Machinegun Range.”</p>

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<i>OHARNG-Camp Ravenna (Katie Elgin)</i>					
R-7	Page 4 Line 31	Page 4 See Response	Delete this line as you already mentioned that the site was being cleaned up for the range use prior to transfer. Also, it sounds like the OHARNG approved the SOW which is not necessarily true. We provide input on some SOWs but not approval.		The sentence beginning with “In preparation for releasing the Lane 1 site to OHARNG...” has been deleted from the report.
R-8	Page 6 Line 4 and 5	Page 6 See Response	You may need to provide an explanation as to why the cleanup goals are different for the MK 19 Range Maintenance Soldier and the Small Arms Range Maintenance Soldier especially since they will be working on the same range and are one in the same.		All references to the Small Arms Range Maintenance Soldier have been deleted from the document.
R-9	Page. 11 Line 1	Page 11 See Response	“The risk-based cleanup goals are concentrations that are considered safe for range maintenance soldiers (SAIC, 2008).” While this is true, the cleanup goals encompass other receptors as well and are safe for those receptors too. This report need to reflect this.		No change was made. (See response to comments #4 and 5)

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R-10	Section 8.0 Recommendations	Page 37	<p>Not sure why there is a Recommendation section in this report as it is supposed to report what was completed not recommend additional items.</p> <p>Additionally, this section indicates that LUCs are provided in Appendix W. The LUCs referenced in Appendix W are a draft copy. Also I wonder if these should even be inserted in this report since they are already memorialized in the ROD, RD, and eventually the PMP. Just would hate to leave them in this document and if they change in the future have to change this document.</p> <p>This section indicates that the land is suitable for transfer to the OHARNG. The contractor does not make this decision. It is based on the decision of USACE, BRAC, Ohio EPA, and the OHARNG</p> <p>Recommend deleting Section 8.</p>		<p>The Appendix containing LUCs has been removed from the document.</p> <p>This section now states:</p> <p>“LUCs for the WBG are specified in the final ROD and the approved Remedial Design (RD) and will also be specified in complete detail in the forthcoming Property Management Plan (PMP). The LUCs are enforceable under the Directors Final Findings and Orders (June 2004).”</p>

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R-11	Figures tab, Figure 3, WBG Clearance Map	Page 3 Appendix B	Do we want to include this map in this report since it now needs revised to reflect the additional clearance activities that were just completed as part of the recent remediation?		For clarification, Figure 3 was revised to simply show the general layout of the original Winklepeck site as referenced in the operational history text for WBG in Section 1.4 on page 3, line 27: "A site map depicting the locations of the burn pads is provided in Appendix B, Figure 3."
R-12	Appendix W	See Response	See above comment on providing the LUC language in this document. Recommend deleting this appendix.		Appendix W has been removed from the document.

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R-1	General	See Response	Throughout the revised report, you reference that the land is transferred to NGB. You also reference that it is transferred to the United States Property and Fiscal Officer for Ohio. While it is pretty much the same because the USPFO for Ohio works for NGB, please use one OR the other.		MKM has revised the report throughout to state that the land was transferred to NGB and remove the references to the USPFO.

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<i>OHARNG-Camp Ravenna (Katie Elgin) Additional Comments</i>					
R-2	Comments 4 and 5	See Response	I don't think you are understanding the meaning of my comment. The range maintenance soldier is protective of other receptors who will be accessing the site including the security guard maintenance worker, hunter/trapper, etc. The cleanup was completed to protect all the receptors who access the site. That is why I commented that the text seems limiting. I recommend that you delete the references at the beginning and end of the text referenced in the comments. For example change "To protect range maintenance soldiers, soils contaminated with MEC..." to "Soils contaminated with MEC..." You really don't need the reference to the range maintenance soldier and therefore the statement is more generic.		It is understood that you wanted a more generic statement regarding the protectiveness of the cleanup measures. However, the ROD, our contract, and our work plan specifically identify the remedial action objective is "to prevent exposure of the National Guard Range Maintenance Soldier to contaminants in soil exceeding risk-based cleanup levels extending to a maximum depth of four feet below ground surface (bgs)". Per your email concurrence on November 12, 2009, we have left the references to the Range Maintenance Soldier as is.

End of Comments