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FINAL RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION REPORT ADDENDUM FOR UNEXPLODED ORDNANCE 7 (UXO 7) RANGES NSA CRANE IN
12/01/2012
TETRA TECH

Final
Resource Conservation and Recovery Act Facility Investigation Report Addendum
for
UXO 7 Ranges (UXO 7)

Naval Support Activity Crane
Crane, Indiana

Naval Facilities Engineering Command Midwest

Contract Number N62472-03-D-0057

Contract Task Order F272

December 2012

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FINAL

RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION REPORT ADDENDUM FOR UXO 7 RANGES (UXO 7)

NAVAL SUPPORT ACTIVITY, CRANE
CRANE, INDIANA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

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ACRONYMS

%R	Percent recovery
ALM	Adult lead model
BaP	Benzo(a)pyrene
bgs	Below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLEAN	Comprehensive Long-Term Environmental Action Navy
COPC	Chemical of potential concern
CAAA	Crane Army Ammunition Activity
CTO	Contract Task Order
DoD	Department of Defense
DI	Deionized
DPT	Direct-Push Technology
DQI	Data Quality Indicator
EcoSSL	Ecological Soil Screening Level
EEQ	Ecological Effects Quotient
ERA	Ecological Risk Assessment
ESL	Ecological screening level
FBL	Fixed-Base Laboratory
FOL	Field Operations Leader
GPS	Global Positioning System
HASP	Health and Safety Plan
HHRA	Human Health Risk Assessment
IEUBK	Integrated Exposure Uptake Biokinetic
IUPPS	Indiana Underground Plant Protection Service
LANL	Los Alamos National Laboratory
MCG	Media Cleanup Goal
mg/kg	Milligram per kilogram
MMRP	Military Munitions Response Program
NAVFAC	Naval Facilities Engineering Command
NPL	National Priorities List
NSA	Naval Support Activity
OB	Open burning
ORNL	Oak Ridge National Laboratory
ORR	Old Rifle Range

PAH	Polynuclear aromatic hydrocarbon
PM	Project Manager
PPE	Personal protective equipment
ppm	Parts per million
PRG	Preliminary remediation goals
PVC	Polyvinyl chloride
QA	Quality assurance
QAPP	Quality Assurance Project Plan
QC	Quality control
RBSL	Risk-based screening level
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SOP	Standard Operating Procedure
SQG	Soil Quality Guideline
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
Tetra Tech	Tetra Tech NUS, Inc.
UCL	Upper confidence limit
USEPA	United States Environmental Protection Agency
UXO	Unexploded Ordnance
XRF	X-Ray Fluorescence

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum was performed for the United States Navy, Naval Facilities Engineering Command (NAVFAC) Midwest by Tetra Tech, Inc. (Tetra Tech) under Contract Task Order (CTO) F272 of the Comprehensive Long-Term Environmental Action Navy (CLEAN) IV Contract Number N62472-03-D-0057. Unexploded Ordnance (UXO) 7 is a closed military range. Investigations of closed military ranges are conducted under the Navy Military Munitions Response Program (MMRP). The Department of Defense (DoD) has specified that MMRP investigations be conducted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Naval Support Activity (NSA) Crane is not listed on the CERCLA National Priorities List (NPL); therefore, the investigation of UXO 7 at NSA Crane was conducted under the RCRA Corrective Action Program.

1.2 FACILITY DESCRIPTION

NSA Crane is located in the southern portion of Indiana, approximately 75 miles southwest of Indianapolis and 71 miles northwest of Louisville, Kentucky, immediately east of Crane Village and Burns City (Figure 1-1). NSA Crane encompasses 62,463 acres (approximately 98 square miles), most of which are located in the northern portion of Martin County. Smaller portions of NSA Crane are located in Greene, Daviess, and Lawrence Counties. NSA Crane is located in a rural, sparsely populated area. Most of NSA Crane is forested, and the surrounding area is wooded or farmed land.

NSA Crane provides material, technical, and logistical support to the Navy for equipment, shipboard, weapons systems, and nonexpendable ordnance items. In addition, NSA Crane supports the Crane Army Ammunition Activity (CAAA) with production, renovation, storage, shipment, demilitarization, and disposal of conventional ammunition.

1.3 SITE DESCRIPTION

UXO 7 includes the former West Trap Range, former East Trap Range, former South Pistol Range, and former Old Rifle Range (ORR). Located within UXO 7, is Solid Waste Management Unit (SWMU 7), which is the Open Burning (OB) Treatment Area. UXO 7 encompasses approximately 20 acres. UXO 7 is located immediately west of NSA Crane Highway 8 in the flat-lying floodplain of Turkey Creek (Figure 1-2). The site consists of a flat-grass covered area bisected from north to south by an unnamed

but maintained gravel road. The four closed ranges (West Trap Range, East Trap Range, South Pistol Range, and ORR), were identified during previous RFI activities conducted at UXO 7. Site features and approximate boundaries for the individual sites that make up UXO 7 are presented in Figure 1-2.

For purposes of the human health and ecological risk assessments conducted on the 2007 RFI data, UXO 7 was categorized into three distinct zones including the southern, central, and northern zones. The East and West Trap Ranges are located within the central zone, while the areas of concern on the 500-yard rifle range are included in the northern zone (Figure 1-2).

1.4 INVESTIGATION BACKGROUND

These former small arms ranges have been the subject of three investigations for contaminants commonly associated with rifle and pistol range ammunition, primarily lead and copper; and also trap range contaminants, which are primarily polynuclear aromatic hydrocarbons (PAHs) and lead.

These small arms ranges sites were all initially investigated as part of an RFI in 2007 and additional information regarding the site history can be found in the UXO 7 RFI Report (Tetra Tech, 2009). The soil samples collected from the pistol range area generally had low-level detections of lead observed by X-Ray Fluorescence (XRF) in the field, and these soil lead concentrations were likely influenced by the lead-containing small arms ammunition fired on the pistol range. A minor subset (three) of the pistol range soil samples had lead detections above 150 parts per million (ppm) by XRF, including the hillside (range backstop) samples from behind the former pistol range target locations. The human health and ecological receptor risk assessments in the UXO 7 RFI Report (Tetra Tech, 2009) for the southern zone indicated no significant risks and no additional sampling activities were recommended or performed for this zone. During the RFI field investigations, PAHs were found to present excess risk to human health in areas of the former trap ranges (Figure 1-3) and lead was found to present excess risk to ecological receptors on the 500-yard Rifle Range (Figure 1-4). The results of the 2007 RFI data were presented in the UXO 7 RFI Report (Tetra Tech, 2009). The subject of this RFI Report Addendum will be the two supplemental sampling events that occurred in November 2011 and September/October 2012. These sampling events will be referred to as Round 1 (November 2011) and Round 2 (September/October 2012).

1.5 REPORT ORGANIZATION

The following sections are presented in the remainder of this document:

- Section 2.0: Field Program Description
- Section 3.0: Presentation of Analytical Results
- Section 4.0: Human Health Risk Updates
- Section 5.0: Ecological Risk Updates
- Section 6.0: Risk Reduction and Mitigation

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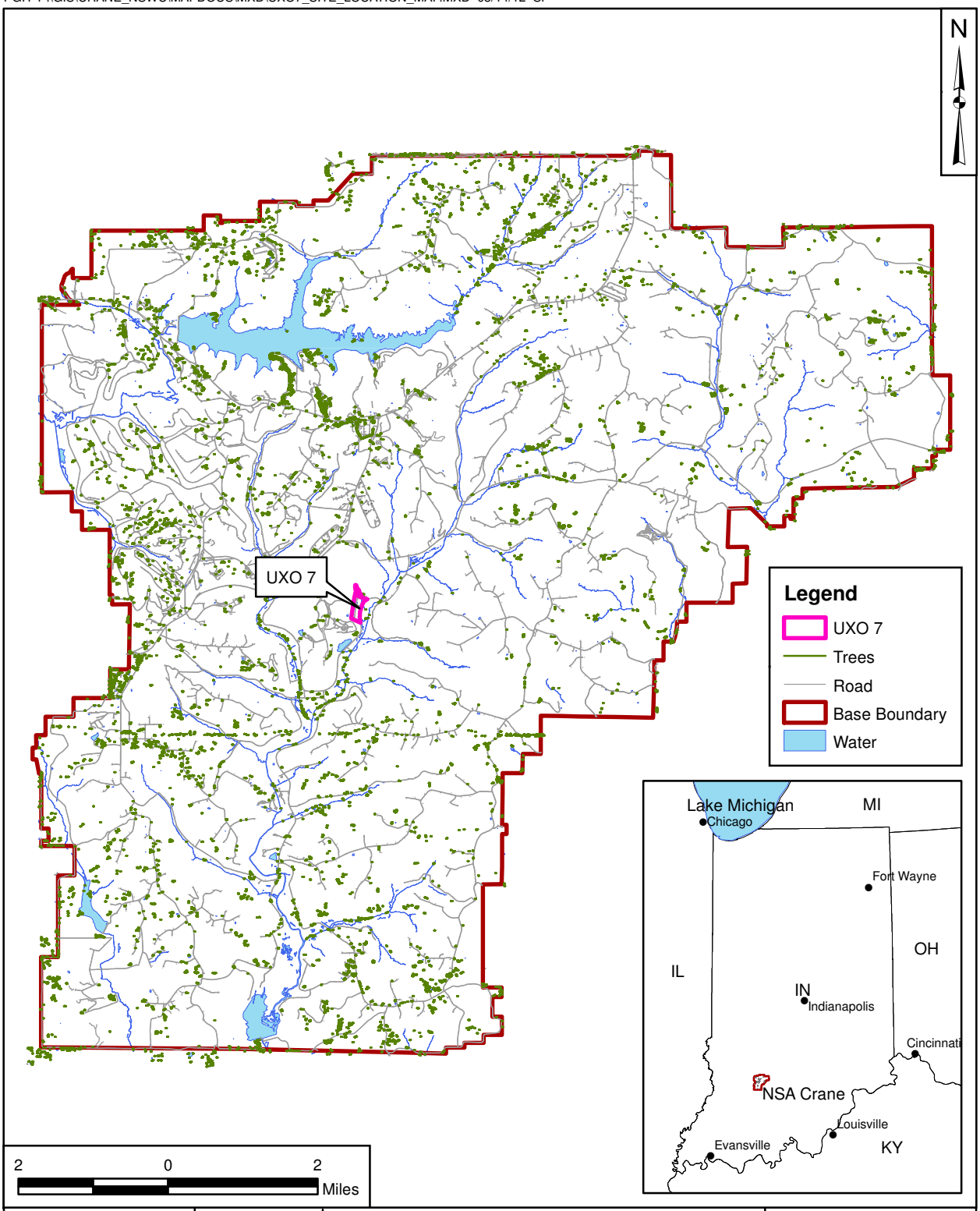

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NAVFAC

UXO 7 SITE LOCATION MAP
NSA CRANE
CRANE, INDIANA

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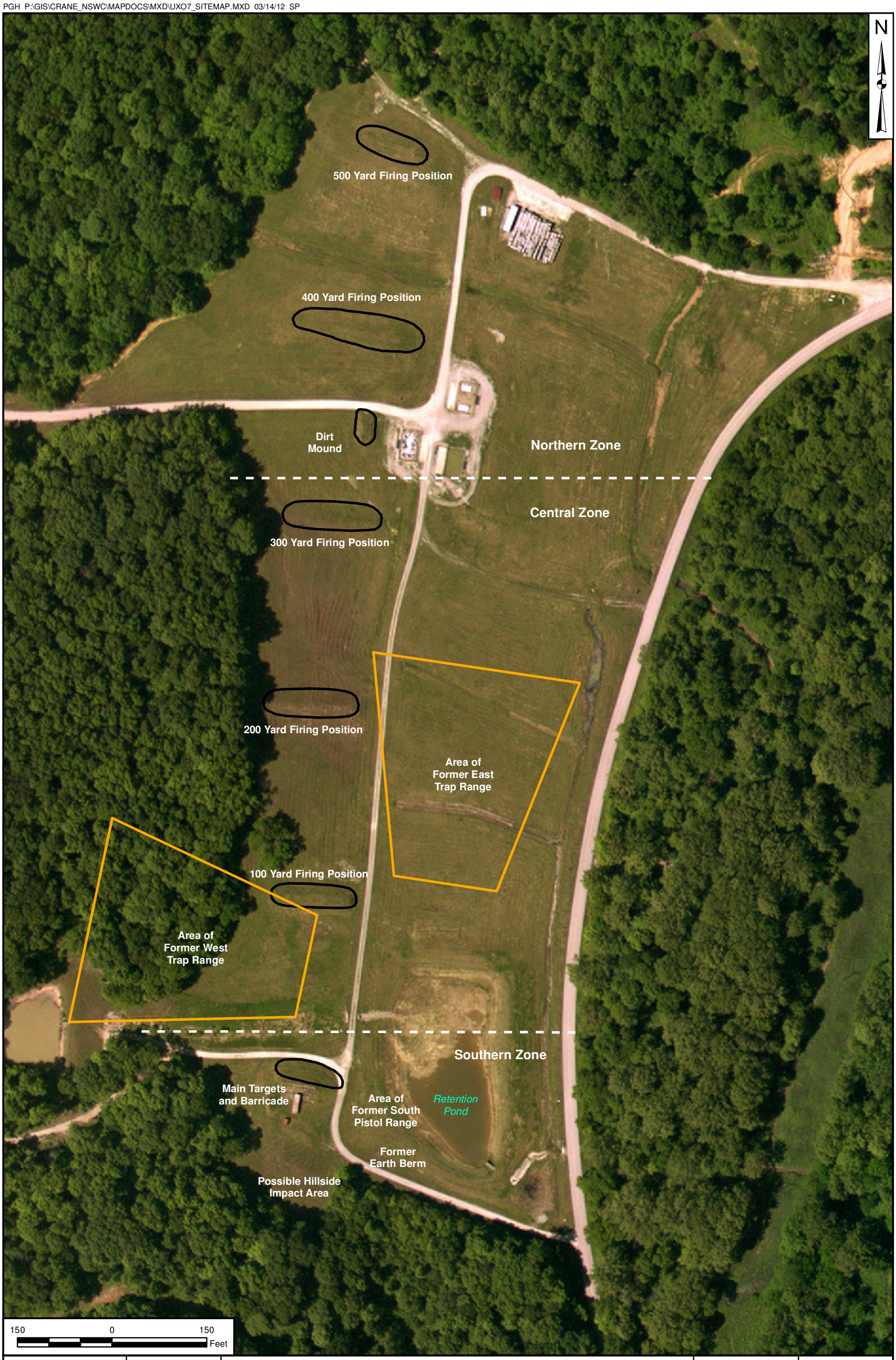

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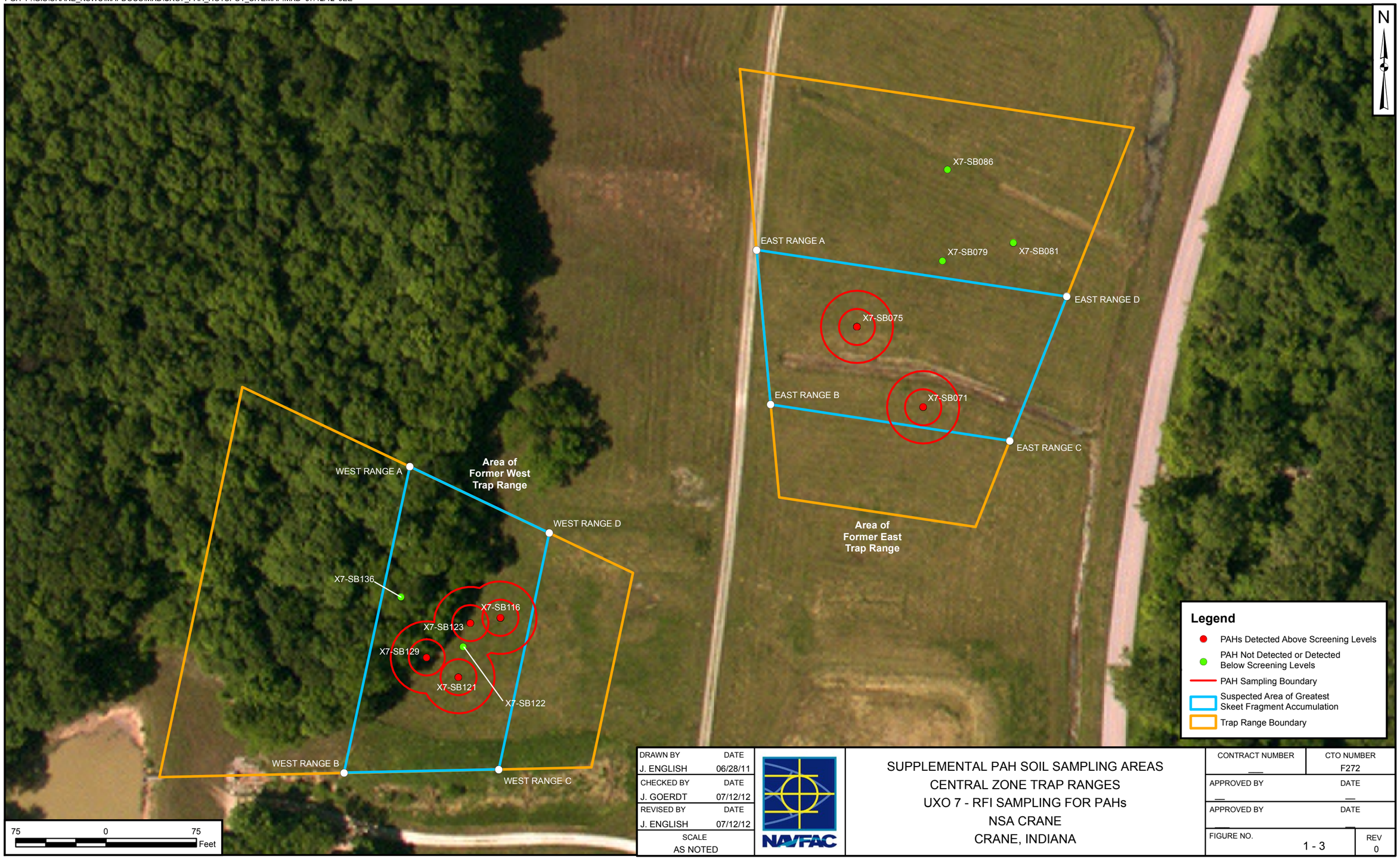

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NAVFAC

SUPPLEMENTAL PAH SOIL SAMPLING AREAS
CENTRAL ZONE TRAP RANGES
UXO 7 - RFI SAMPLING FOR PAHs
NSA CRANE
CRANE, INDIANA

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FIGURE NO. 1 - 3	REV 0

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NAVFAC

SUPPLEMENTAL LEAD SOIL SAMPLING AREAS
NORTHERN ZONE
UXO 7 - RFI SAMPLING FOR LEAD
NSA CRANE
CRANE, INDIANA

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2.0 FIELD INVESTIGATION

This section describes the sampling activities, procedures, and documentation utilized during the field activities performed during the two supplemental sampling events at NSA Crane, UXO 7.

2.1 OVERVIEW

UXO 7 is comprised of four former shooting ranges: the East Trap Range, the West Trap Range, the South Pistol Range, and the ORR. The UXO 7 RFI (Tetra Tech, 2009) was performed to support human health and ecological risk assessments. The data was adequate for risk assessment purposes, but was not sufficient to fully delineate the nature and extent of the chemicals of concern at UXO 7 which included lead and PAHs for remediation purposes.

The Round 1 supplemental sampling was performed to delineate the horizontal and vertical extent of PAHs at the East and West Trap Ranges in the Central Zone and lead in the Northern Zone of the ORR. All samples during Round 1 were collected by hand auger from 0 to 2 feet below ground surface (bgs) (see Table 2-1). All soil samples collected from the Northern Zone ORR were analyzed in the field for lead via XRF with a subset of those samples shipped to the fixed-base laboratory (FBL) for lead analysis. All soil samples collected from the East and West Trap Ranges were submitted to the FBL for PAH analysis. Table 2-1 summarizes sample collection and associated analyses. Round 1 field work was conducted in accordance with the Technical Memorandum Work Plan for Proposed Supplemental Sampling Activities at UXO 7, approved by the USEPA in October, 2011.

The results of the Round 1 sampling event proved to be insufficient to perform removal actions; therefore, additional sampling was performed. Round 2 supplemental sampling was performed to delineate the horizontal and vertical extent of PAH contamination at the East and West Trap Range and lead contamination in the Northern Zone of the ORR.

2.2 MOBILIZATION/DEMOBILIZATION

Round 1

Tetra Tech personnel mobilized to NSA Crane on November 7, 2011. All field team members reviewed the approved Quality Assurance Project Plan (QAPP), Technical Memorandum for this supplemental sampling event, associated appendices, and updated Health and Safety Plan (HASP) prior to the start of

the project activities. In addition, the Field Operations Leader (FOL) held a field team orientation meeting to ensure that personnel were familiar with the scope of the field activities.

Prior to the initiation of fieldwork, the FOL arrived at the site and began onsite mobilization activities. These activities included coordination with NSA Crane personnel and utility clearance of all proposed boring locations through Indiana Underground Plant Protection Service (IUPPS). The equipment required for the field activities was shipped to the site. At the conclusion of field activities, the FOL completed the decontamination and demobilization of all equipment.

Round 2

Following the approval of the Technical Memorandum Work Plan (Tetra Tech, 2012), Tetra Tech personnel mobilized to NSA Crane for Round 2 supplemental sampling at UXO 7 on September 4, 2012. The FOL held a field team orientation meeting to ensure that personnel including subcontractors were familiar with the scope of the field activities for Round 2 and the HASP. A direct-push technology (DPT) drill rig was used for Round 2 sample collection and underwent an equipment checklist prior to utilization.

Round 2 was separated into two shifts. The first one was from September 4-13, 2012 and the second from October 2-10, 2012.

Prior to the initiation of fieldwork, the FOL arrived at the site and began onsite mobilization activities. These activities included coordination with NSA Crane personnel and utility clearance of all proposed boring locations through IUPPS. The equipment required for the field activities was shipped to the site. At the conclusion of field activities, the FOL completed the decontamination and demobilization.

2.3 SITE INVESTIGATION METHODOLOGIES AND PROCEDURES

2.3.1 Hand Augering

The majority of borings at UXO 7 during Round 1 were completed by hand auger techniques. DPT was utilized for a small number of borings collected at the base of the dirt mound located in the Northern Zone. Hand augering involves manually turning a 2 ½-inch stainless steel auger bucket into the ground surface to the desired sample depth. All hand augered soil borings at UXO 7 were advanced to a maximum depth of 2 feet bgs unless refusal was encountered prior to that depth. If refusal was encountered at a depth 1 foot bgs, the auger was removed and repositioned nearby until a depth greater than 1 foot bgs was achieved. Upon reaching the desired depth, the soil from the boring was homogenized and a portion was then placed in a disposable plastic bag. The auger bucket was

decontaminated in the field between each sample location as outlined in SOP-07 of the Technical Memorandum for Round 1.

2.3.2 Direct-Push Technology

A track-mounted DPT GeoProbe® drill rig was used to collect surface and subsurface soil samples during Round 2. Samples were collected with the use of DPT Macro-core® sampling techniques for chemical and lithologic analysis.

Samples were collected in 4-foot liners and the total depth varied per location (see Table 2-1). Upon advancement to the desired depth, the boring was abandoned by placing bentonite from the bottom of the boring to the ground surface in accordance with federal and state regulations

2.3.3 XRF Analyses

All soil samples collected from the Northern Zone of the ORR were processed in the field and scanned for lead via a portable XRF analyzer in accordance with SOP-10. Sample processing included homogenizing the soil sample, removing large rocks or other debris, crushing the sample to uniform size, and drying the sample in a convection oven. Three separate XRF measurements were made for each soil sample, and the reported concentration is the average value of those three readings (see Appendix A). The XRF readings were taken from each end of the baggie and one in the middle. A lead field action level of 125 ppm was used as the field action limit during the XRF screening process. This value was chosen based on past experience that shows field XRF results to be potentially biased low. XRF lead concentrations exceeding 125 ppm may be indicative of lead concentrations in excess of the 192 milligrams per kilogram (mg/kg) benchmark ecological screening level that was agreed upon by the Navy and the United States Environmental Protection Agency (USEPA) for UXO 7.

If the lead XRF result was less than 125 ppm, no additional samples were collected in the vicinity of that sample location. If the average XRF concentration was greater than 125 ppm, additional soil samples were collected around the location until the extent of the contamination could be defined both vertically and horizontally.

Sample IDs, average XRF concentrations, and associated FBL concentrations are presented in Appendix A, along with all soil sample logs, QC logs, and chain-of custody forms.

2.3.4 Sample Logging

Samples were logged on Multiple Sample Log Sheets during Rounds 1 and 2 of the supplemental sampling events. The sample log sheets are included in Appendix A of this report and contain the following information as appropriate:

- Sample ID
- Name of person(s) collecting the sample
- Sample depth, date, and time
- Laboratory analyses
- Quality Assurance (QA) samples

2.4 SAMPLING OPERATIONS

Round 1

To better evaluate the human health and ecological risk at UXO 7, the former small arms ranges were grouped into three exposure units (Northern Zone, Central Zone, and Southern Zone) (**Figure 1-2**). The source of PAHs detected in soil from the former trap ranges in the Central Zone is the tar pitch/bitumen binder materials which are used in the manufacturing of the clay pigeon targets. There were low-level detections of lead observed in trap range soil samples which likely originated in part from the lead shot in the ammunition cartridges fired from the shotguns. The lead concentrations detected in the trap range soil samples were collected during the original RFI sampling and those samples all had XRF readings below 50 ppm, indicating that soil lead contamination was not an issue at the trap ranges. These XRF results were confirmed by limited FBL soil sample analyses. The lead risks associated with portions of the 500-yard Rifle Range (Rifle Range) located in the northern zone are a result of lead bullets fired at the Rifle Range.

Based on these risks, supplemental sampling was conducted in November 2011 (Round 1) to more fully delineate the lead and PAH contamination in order to support a prescriptive removal action (Tetra Tech, 2011). The majority of soil samples collected during the Round 1 supplemental sampling at UXO 7 were collected by hand auger from 0 to 2 feet bgs (see **Table 2-1**). Additional samples, at depths greater than 2 feet bgs, were collected utilizing DPT. All soil samples collected in the northern zone of the Rifle Range were analyzed in the field for lead via XRF. Based on the XRF results exceeding the field action limit, additional “step-out” samples were collected.

Select samples were then shipped to the FBL for lead analysis. PAH analysis at the FBL was conducted on samples collected from the East and West Trap Ranges because clay targets were only used within those two areas.

Round 2

Based on the results of Round 1 supplemental sampling, a second round was necessary to fully delineate the horizontal and vertical extent of lead and PAH contamination at UXO 7. Round 2 sampling was conducted in September and October of 2012 to completely delineate the lead and PAH contamination in order to support a prescriptive removal action (Tetra Tech, 2012). All samples were collected using a DPT rig. All samples collected from the East and West Trap Ranges were shipped to the FBL for PAH analysis. Samples collected from the Rifle Range were analyzed in the field using XRF. Step-out sampling occurred during Round 2 until the Northern Zone was completed delineated both vertically and horizontally using XRF.

All samples during Round 2 were collected by DPT. PAH sample depths reached down to 6 feet bgs at various locations within the East and West Trap Ranges. Surface soil samples were collected from 0 to 1-foot bgs and 1 to 2-feet bgs. Subsurface soil samples were collected in 2-foot intervals from 2 feet down to 6 feet bgs. For lead delineation in the Northern Zone, additional samples were proposed in 1-foot intervals down to depths of 5 feet bgs. Table 2-1 summarizes the samples shipped to the FBL for laboratory analysis. Round 2 field work was conducted in accordance with the Technical Memorandum Work Plan for Proposed Supplemental Sampling (Round 2), approved by the USEPA in August, 2012.

2.5 FIELD SAMPLE DOCUMENTATION

Sample documentation consisted of the completion of multi-sample log sheets, chain-of-custody records, field logbooks, and health and safety documentation. Field documentation was completed as per SOP-03. The sample log sheets contain information such as sample location, sample ID, container requirements, analyses to be performed, and sample type, time, and date. Any unusual circumstances encountered during sample collection were noted on the form. Multi-sample logsheets can be found in Appendix A of this document. Chain-of-custody forms (See Appendix A) were used to track each sample from collection to receipt and analysis at the FBL.

2.6 SAMPLE HANDLING, PACKAGING, AND SHIPPING

Sample handling activities included field-related considerations concerning the selection of sample containers, allowable holding times, sample custody, and maintaining samples at the appropriate storage temperature. All sample containers shipped to the FBL were wrapped in bubble wrap and sealed in

Ziploc® bags to minimize the possibility of breakage during transport. The sample containers were then placed in a cooler lined with a large plastic garbage bag and covered with ice. A temperature blank was placed in each cooler prior to shipment. The plastic garbage bag was sealed with a knot, and the chain-of-custody form was sealed in a Ziploc® bag and taped to the inside of the cooler lid. A signed and dated custody seal was applied to each end of the cooler and then covered with strapping tape to provide a tamper-evident seal. A Federal Express® airbill was applied to the shipping cooler. Tetra Tech maintained custody of the samples until they were relinquished to Federal Express®. The Federal Express® tracking number (airbill number) was recorded on the chain-of-custody form, and the sender's copy of the airbill was maintained for shipment tracking, if needed. All samples were shipped to the FBL for overnight delivery and received within sample holding times.

2.7 QUALITY CONTROL SAMPLES

Quality assurance/quality control (QA/QC) samples were generated and collected during both rounds of sampling to monitor both field and laboratory procedures, in accordance with the Technical Memorandum (Tetra Tech, 2011). QA/QC samples included field duplicates, equipment rinsate blanks, and temperature blanks. Field duplicate results are tabulated in Appendix C of this document. Types of QA/QC samples are briefly described as follows:

- Field Duplicates – consisted of a single sample split into two portions. Field duplicates were collected at the rate of 1 in 20 during both rounds of supplemental sampling to assess the overall precision of the sampling and analysis program.

- Equipment Rinsate Blanks – obtained under representative field conditions by collecting the water generated by running analyte-free water through or over sample collection equipment after decontamination and before use. When pre-cleaned, dedicated, or disposable sampling equipment was used (no decontamination was required), one equipment rinsate blank was collected as a batch blank. Equipment rinsate blanks were analyzed for the chemical constituents as the associated environmental samples.

- Temperature Blanks – used to determine if samples were adequately cooled during shipment. Temperature blanks consisted of analyte-free water poured into a clean sample container at the site or supplied by the FBL. One temperature blank was submitted to the laboratory in each cooler, and the temperature was checked upon receipt at the laboratory.

2.8 GPS/SURVEY

Each proposed sample location was initially marked in the field utilizing a Trimble GeoXH 6000 global positioning system (GPS). Upon sample collection, all northing and easting coordinates for each sample were updated via GPS by Tetra Tech personnel. Additionally, the majority of Round 1 and Round 2 sample locations were surveyed by a professional surveyor licensed in the State of Indiana. This information is retained in the Tetra Tech main database and can be used as a reference if repeat sampling is required at any of the sampling locations. Also, following sampling activities, each location was marked by polyvinyl chloride (PVC) pipe that was spray-painted with a bright color and driven into the ground.

2.9 DECONTAMINATION

The non-dedicated, non-disposable equipment (i.e., hand auger and DPT shoe) involved in field sampling activities were decontaminated before beginning work, between each sample location/boring, and the completion of field activities in accordance with SOP-07.

The following decontamination steps were taken:

- Potable water and phosphate-free detergent wash (scrub if necessary)
- Potable water rinse
- Deionized (DI) water rinse
- Air dry (if possible)
- Wrap in aluminum foil (if not used immediately)

2.10 INVESTIGATION-DERIVED WASTE HANDLING

Both rounds of supplemental sampling generated potentially contaminated wastes including personal protective equipment (PPE) and decontamination fluids. Management of each residue was performed as follows:

PPE – All PPE were double bagged and placed in NSA Crane trash receptacles (i.e., dumpsters).

Sampling Equipment Decontamination Fluids – All equipment decontamination fluids were collected and discharged to the NSA Crane permitted waste treatment plant.

All soil removed from a sample location that was not used as part of that sample was returned to its original boring.

2.11 SITE MANAGEMENT AND FACILITY SUPPORT

The FOL was designated as the lead in coordinating all day-to-day activities during the investigation. The FOL was responsible for ensuring that all field team members including subcontractors) were familiar with the approved Technical Memorandums and the HASP in effect during both rounds of supplemental sampling. Additionally, the FOL was responsible for all sampling operations, QA/QC field documentation requirements, and field change orders. The FOL reported to the Project Manager (PM) on a daily basis regarding the status of fieldwork.

All site preparation, mobilization/demobilization, and sampling activities were coordinated through NSA Crane personnel through pre-visit communication and meetings during the field work.

2.12 RECORDKEEPING

Records were maintained for the daily activities that took place during both rounds of supplemental sampling. Other records, including multi-sample log sheets and chain of custody forms, were completed in accordance with SOP-03 of the Technical Memorandum (September, 2011). Information recorded daily included field activities, weather conditions, identity and arrival and departure times of personnel, management issues, etc. Copies of daily activity of records are included in Appendix A.

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
West Trap Range (Figure 2-1)							
X7-SS116-0002	10/6/2007	RFI-2007	DPT	0-2			X
X7-SB116-0204	9/7/2012	2	DPT	2-4			X
X7-SB116-0406	9/7/2012	2	DPT	4-6			X
X7-SS121-0002	10/6/2007	RFI-2007	DPT	0-2			X
X7-SB121-0204	9/7/2012	2	DPT	2-4			X
X7-SB121-0406	9/7/2012	2	DPT	4-6			X
X7-SS122-0002	10/6/2007	RFI-2007	DPT	0-2			X
X7-SS123-0002	10/6/2007	RFI-2007	DPT	0-2			X
X7-SB123-0204	9/7/2012	2	DPT	2-4			X
X7-SB123-0406	9/7/2012	2	DPT	4-6			X
X7-SS129-0002	10/6/2007	RFI-2007	DPT	0-2			X
X7-SS136-0002	10/6/2007	RFI-2007	DPT	0-2			X
X7-SS200-0001	11/10/2011	1	HA	0-1			X
X7-SS200-0102	11/10/2011	1	HA	1-2			X
X7-SS201-0001	11/10/2011	1	HA	0-1			X
X7-SS201-0102	11/10/2011	1	HA	1-2			X
X7-SS202-0001	11/10/2011	1	HA	0-1			X
X7-SS202-0102	11/10/2011	1	HA	1-2			X
X7-SS203-0001	11/10/2011	1	HA	0-1			X
X7-SS203-0102	11/10/2011	1	HA	1-2			X
X7-SB203-0204	9/7/2012	2	DPT	2-4			X
X7-SB203-0406	9/7/2012	2	DPT	4-6			X
X7-SS204-0001	11/10/2011	1	HA	0-1			X
X7-SS204-0102	11/10/2011	1	HA	1-2			X
X7-SS205-0001	11/10/2011	1	HA	0-1			X
X7-SS205-0102	11/10/2011	1	HA	1-2			X
X7-SS206-0001	11/10/2011	1	HA	0-1			X
X7-SS206-0102	11/10/2011	1	HA	1-2			X
X7-SS207-0001	11/10/2011	1	HA	0-1			X
X7-SS207-0102	11/10/2011	1	HA	1-2			X
X7-SS208-0001	11/10/2011	1	HA	0-1			X
X7-SS208-0102	11/10/2011	1	HA	1-2			X
X7-SS209-0001	11/10/2011	1	HA	0-1			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS209-0102	11/10/2011	1	HA	1-2			X
X7-SS210-0001	11/10/2011	1	HA	0-1			X
X7-SS210-0102	11/10/2011	1	HA	1-2			X
X7-SS211-0001	11/10/2011	1	HA	0-1			X
X7-SS211-0102	11/10/2011	1	HA	1-2			X
X7-SS212-0001	11/10/2011	1	HA	0-1			X
X7-SS212-0102	11/10/2011	1	HA	1-2			X
X7-SS213-0001	11/10/2011	1	HA	0-1			X
X7-SS213-0102	11/10/2011	1	HA	1-2			X
X7-SS214-0001	11/10/2011	1	HA	0-1			X
X7-SS214-0102	11/10/2011	1	HA	1-2			X
X7-SS215-0001	11/10/2011	1	HA	0-1			X
X7-SS215-0102	11/10/2011	1	HA	1-2			X
X7-SS216-0001	11/10/2011	1	HA	0-1			X
X7-SS216-0102	11/10/2011	1	HA	1-2			X
X7-SS217-0001	11/10/2011	1	HA	0-1			X
X7-SS217-0102	11/10/2011	1	HA	1-2			X
X7-SS218-0001	11/10/2011	1	HA	0-1			X
X7-SS218-0102	11/10/2011	1	HA	1-2			X
X7-SS219-0001	11/10/2011	1	HA	0-1			X
X7-SS219-0102	11/10/2011	1	HA	1-2			X
X7-SS220-0001	11/10/2011	1	HA	0-1			X
X7-SS220-0102	11/10/2011	1	HA	1-2			X
X7-SS221-0001	11/10/2011	1	HA	0-1			X
X7-SS221-0102	11/10/2011	1	HA	1-2			X
X7-SS222-0001	11/10/2011	1	HA	0-1			X
X7-SS222-0102	11/10/2011	1	HA	1-2			X
X7-SS223-0001	11/10/2011	1	HA	0-1			X
X7-SS223-0102	11/10/2011	1	HA	1-2			X
X7-SS224-0001	11/10/2011	1	HA	0-1			X
X7-SS225-0001	11/10/2011	1	HA	0-1			X
X7-SS225-0102	11/10/2011	1	HA	1-2			X
X7-SS226-0001	11/10/2011	1	HA	0-1			X
X7-SS226-0102	11/10/2011	1	HA	1-2			X
X7-SS227-0001	11/10/2011	1	HA	0-1			X
X7-SS227-0102	11/10/2011	1	HA	1-2			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB227-0204	9/7/2012	2	DPT	2-4			X
X7-SB227-0406	9/7/2012	2	DPT	4-6			X
X7-SS228-0001	11/10/2011	1	HA	0-1			X
X7-SS228-0102	11/10/2011	1	HA	1-2			X
X7-SS229-0001	11/10/2011	1	HA	0-1			X
X7-SS229-0102	11/10/2011	1	HA	1-2			X
X7-SS230-0001	11/10/2011	1	HA	0-1			X
X7-SS230-0102	11/10/2011	1	HA	1-2			X
X7-SS231-0001	11/10/2011	1	HA	0-1			X
X7-SS232-0001	11/10/2011	1	HA	0-1			X
X7-SS232-0102	11/10/2011	1	HA	1-2			X
X7-SS233-0001	11/10/2011	1	HA	0-1			X
X7-SS233-0102	11/10/2011	1	HA	1-2			X
X7-SS234-0001	11/10/2011	1	HA	0-1			X
X7-SS234-0102	11/10/2011	1	HA	1-2			X
X7-SS237-0001	11/10/2011	1	HA	0-1			X
X7-SS238-0001	11/10/2011	1	HA	0-1			X
X7-SS239-0001	11/10/2011	1	HA	0-1			X
X7-SS240-0001	11/10/2011	1	HA	0-1			X
X7-SS240-0102	11/10/2011	1	HA	1-2			X
X7-SS241-0001	11/10/2011	1	HA	0-1			X
X7-SS241-0102	11/10/2011	1	HA	1-2			X
X7-SS435-0001	No Sample Collected(1)						
X7-SS435-0102	No Sample Collected(1)						
X7-SB435-0204	No Sample Collected(1)						
X7-SB435-0406	No Sample Collected(1)						
X7-SS436-0001	No Sample Collected(1)						
X7-SS436-0102	No Sample Collected(1)						
X7-SB436-0204	No Sample Collected(1)						
X7-SB436-0406	No Sample Collected(1)						
X7-SS437-0001	No Sample Collected(1)						
X7-SS437-0102	No Sample Collected(1)						
X7-SB437-0204	No Sample Collected(1)						
X7-SB437-0406	No Sample Collected(1)						
X7-SS438-0001	No Sample Collected(1)						
X7-SS438-0102	No Sample Collected(1)						

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB438-0204	No Sample Collected(1)						
X7-SB438-0406	No Sample Collected(1)						
X7-SS439-0001	9/7/2012	2	DPT	0-1			X
X7-SS439-0102	9/7/2012	2	DPT	1-2			X
X7-SB439-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB439-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS440-0001	No Sample Collected(1)						
X7-SS440-0102	No Sample Collected(1)						
X7-SB440-0204	No Sample Collected(1)						
X7-SB440-0406	No Sample Collected(1)						
X7-SS441-0001	10/3/2012	2	DPT	0-1			X
X7-SS441-0102	10/3/2012	2	DPT	1-2			X
X7-SB441-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB441-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS442-0001	10/3/2012	2	DPT	0-1			X
X7-SS442-0102	10/3/2012	2	DPT	1-2			X
X7-SB442-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB442-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS443-0001	10/3/2012	2	DPT	0-1			X
X7-SS443-0102	10/3/2012	2	DPT	1-2			X
X7-SB443-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB443-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS444-0001	No Sample Collected(1)						
X7-SS444-0102	No Sample Collected(1)						
X7-SB444-0204	No Sample Collected(1)						
X7-SB444-0406	No Sample Collected(1)						
X7-SS445-0001	9/7/2012	2	DPT	0-1			X
X7-SS445-0102	9/7/2012	2	DPT	1-2			X
X7-SB445-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB445-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS446-0001	9/7/2012	2	DPT	0-1			X
X7-SS446-0102	9/7/2012	2	DPT	1-2			X
X7-SB446-0204	9/7/2012	2	DPT	2-4			X
X7-SB446-0406	9/7/2012	2	DPT	4-6			X
X7-SS447-0001	9/7/2012	2	DPT	0-1			X
X7-SS447-0102	9/7/2012	2	DPT	1-2			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB447-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB447-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS448-0001	9/7/2012	2	DPT	0-1			X
X7-SS448-0102	9/7/2012	2	DPT	1-2			X
X7-SB448-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB448-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS449-0001	9/7/2012	2	DPT	0-1			X
X7-SS449-0102	9/7/2012	2	DPT	1-2			X
X7-SB449-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB449-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS450-0001	No Sample Collected(1)						
X7-SS450-0102	No Sample Collected(1)						
X7-SB450-0204	No Sample Collected(1)						
X7-SB450-0406	No Sample Collected(1)						
X7-SS451-0001	9/7/2012	2	DPT	0-1			X
X7-SS451-0102	9/7/2012	2	DPT	1-2			X
X7-SB451-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB451-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS452-0001	No Sample Collected(1)						
X7-SS452-0102	No Sample Collected(1)						
X7-SB452-0204	No Sample Collected(1)						
X7-SB452-0406	No Sample Collected(1)						
X7-SS453-0001	9/7/2012	2	DPT	0-1			X
X7-SS453-0102	9/7/2012	2	DPT	1-2			X
X7-SB453-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB453-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS454-0001	No Sample Collected(1)						
X7-SS454-0102	No Sample Collected(1)						
X7-SB454-0204	No Sample Collected(1)						
X7-SB454-0406	No Sample Collected(1)						
X7-SS455-0001	9/7/2012	2	DPT	0-1			X
X7-SS455-0102	9/7/2012	2	DPT	1-2			X
X7-SB455-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB455-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS4560001	No Sample Collected(1)						
X7-SS456-0102	No Sample Collected(1)						

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB456-0204	No Sample Collected(1)						
X7-SB456-0406	No Sample Collected(1)						
X7-SS457-0001	9/7/2012	2	DPT	0-1			X
X7-SS457-0102	9/7/2012	2	DPT	1-2			X
X7-SB457-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB457-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS458-0001	No Sample Collected(1)						
X7-SS458-0102	No Sample Collected(1)						
X7-SB458-0204	No Sample Collected(1)						
X7-SB458-0406	No Sample Collected(1)						
X7-SS459-0001	9/7/2012	2	DPT	0-1			X
X7-SS459-0102	9/7/2012	2	DPT	1-2			X
X7-SB459-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB459-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS460-0001	9/7/2012	2	DPT	0-1			X
X7-SS460-0102	9/7/2012	2	DPT	1-2			X
X7-SB460-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB460-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS461-0001	No Sample Collected(1)						
X7-SS461-0102	No Sample Collected(1)						
X7-SB461-0204	No Sample Collected(1)						
X7-SB461-0406	No Sample Collected(1)						
X7-SS462-0001	9/7/2012	2	DPT	0-1			X
X7-SS462-0102	9/7/2012	2	DPT	1-2			X
X7-SB462-0204	9/7/2012	2	DPT	2-4			X
X7-SB462-0406	9/7/2012	2	DPT	4-6			X
X7-SS463-0001	9/7/2012	2	DPT	0-1			X
X7-SS463-0102	9/7/2012	2	DPT	1-2			X
X7-SB463-0204	9/7/2012	2	DPT	2-4			X
X7-SB463-0406	9/7/2012	2	DPT	4-6			X
X7-SS464-0001	9/7/2012	2	DPT	0-1			X
X7-SS464-0102	9/7/2012	2	DPT	1-2			X
X7-SB464-0204	9/7/2012	2	DPT	2-4			X
X7-SB464-0406	9/7/2012	2	DPT	4-6			X
X7-SS465-0001	9/7/2012	2	DPT	0-1			X
X7-SS465-0102	9/7/2012	2	DPT	1-2			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB465-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB465-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS466-0001	9/7/2012	2	DPT	0-1			X
X7-SS466-0102	9/7/2012	2	DPT	1-2			X
X7-SB466-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB466-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS467-0001	No Sample Collected(1)						
X7-SS467-0102	No Sample Collected(1)						
X7-SB467-0204	No Sample Collected(1)						
X7-SB467-0406	No Sample Collected(1)						
X7-SS468-0001	No Sample Collected(1)						
X7-SS468-0102	No Sample Collected(1)						
X7-SB468-0204	No Sample Collected(1)						
X7-SB468-0406	No Sample Collected(1)						
X7-SS469-0001	10/3/2012	2	DPT	0-1			X
X7-SS469-0102	10/3/2012	2	DPT	1-2			X
X7-SB469-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB469-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS470-0001	10/3/2012	2	DPT	0-1			X
X7-SS470-0102	10/3/2012	2	DPT	1-2			X
X7-SB470-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB470-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS471-0001	9/7/2012	2	DPT	0-1			X
X7-SS471-0102	9/7/2012	2	DPT	1-2			X
X7-SB471-0204	9/7/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB471-0406	9/7/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS472-0001	10/3/2012	2	DPT	0-1			X
X7-SS472-0102	10/3/2012	2	DPT	1-2			X
X7-SB472-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB472-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS473-0001	No Sample Collected(1)						
X7-SS473-0102	No Sample Collected(1)						
X7-SB473-0204	No Sample Collected(1)						
X7-SB473-0406	No Sample Collected(1)						
X7-SS474-0001	No Sample Collected(1)						
X7-SS474-0102	No Sample Collected(1)						

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB474-0204	No Sample Collected(1)						
X7-SB474-0406	No Sample Collected(1)						
X7-SS475-0001	No Sample Collected(1)						
X7-SS475-0102	No Sample Collected(1)						
X7-SB475-0204	No Sample Collected(1)						
X7-SB475-0406	No Sample Collected(1)						
X7-SS476-0001	No Sample Collected(1)						
X7-SS476-0102	No Sample Collected(1)						
X7-SB476-0204	No Sample Collected(1)						
X7-SB476-0406	No Sample Collected(1)						
X7-SS476-0001	No Sample Collected(1)						
X7-SS477-0102	No Sample Collected(1)						
X7-SB477-0204	No Sample Collected(1)						
X7-SB477-0406	No Sample Collected(1)						
X7-SS478-0001	No Sample Collected(1)						
X7-SS478-0102	No Sample Collected(1)						
X7-SB478-0204	No Sample Collected(1)						
X7-SB478-0406	No Sample Collected(1)						
East Trap Range (Figure 2-2)							
X7-SS071-0002	10/7/2007	RFI-2007	HA	0-2			X
X7-SS075-0002	10/7/2007	RFI-2007	HA	0-2			X
X7-SB075-0204	9/6/2012	2	DPT	2-4			X
X7-SB075-0406	9/6/2012	2	DPT	4-6			X
X7-SS079-0002	10/7/2007	RFI-2007	HA	0-2			X
X7-SS081-0002	10/7/2007	RFI-2007	HA	0-2			X
X7-SS086-0002	10/7/2007	RFI-2007	HA	0-2			X
X7-SS242-0001	11/9/2011	1	HA	0-1			X
X7-SS242-0102	11/9/2011	1	HA	1-2			X
X7-SB242-0204	9/6/2012	2	DPT	2-4			X
X7-SB242-0406	9/6/2012	2	DPT	4-6			X
X7-SS243-0001	11/9/2011	1	HA	0-1			X
X7-SS243-0102	11/9/2011	1	HA	1-2			X
X7-SB243-0204	9/6/2012	2	DPT	2-4			X
X7-SB243-0406	9/6/2012	2	DPT	4-6			X
X7-SS244-0001	11/9/2011	1	HA	0-1			X
X7-SS244-0102	11/9/2011	1	HA	1-2			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS245-0001	11/9/2011	1	HA	0-1			X
X7-SS245-0102	11/9/2011	1	HA	1-2			X
X7-SS246-0001	11/9/2011	1	HA	0-1			X
X7-SS246-0102	11/9/2011	1	HA	1-2			X
X7-SS247-0001	11/9/2011	1	HA	0-1			X
X7-SS247-0102	11/9/2011	1	HA	1-2			X
X7-SB247-0204	9/6/2012	2	DPT	2-4			X
X7-SB247-0406	9/6/2012	2	DPT	4-6			X
X7-SS248-0001	11/9/2011	1	HA	0-1			X
X7-SS248-0102	11/9/2011	1	HA	1-2			X
X7-SS249-0001	11/9/2011	1	HA	0-1			X
X7-SS249-0102	11/9/2011	1	HA	1-2			X
X7-SS250-0001	11/9/2011	1	HA	0-1			X
X7-SS250-0102	11/9/2011	1	HA	1-2			X
X7-SS251-0001	11/9/2011	1	HA	0-1			X
X7-SS251-0102	11/9/2011	1	HA	1-2			X
X7-SS252-0001	11/9/2011	1	HA	0-1			X
X7-SS252-0102	11/9/2011	1	HA	1-2			X
X7-SS253-0001	11/9/2011	1	HA	0-1			X
X7-SS253-0102	11/9/2011	1	HA	1-2			X
X7-SS254-0001	11/9/2011	1	HA	0-1			X
X7-SS254-0102	11/9/2011	1	HA	1-2			X
X7-SB254-0204	9/6/2012	2	DPT	2-4			X
X7-SB254-0406	9/6/2012	2	DPT	4-6			X
X7-SS255-0001	11/9/2011	1	HA	0-1			X
X7-SS255-0102	11/9/2011	1	HA	1-2			X
X7-SB255-0204	9/6/2012	2	DPT	2-4			X
X7-SB255-0406	9/6/2012	2	DPT	4-6			X
X7-SS256-0001	11/9/2011	1	HA	0-1			X
X7-SS256-0102	11/9/2011	1	HA	1-2			X
X7-SB256-0204	9/6/2012	2	DPT	2-4			X
X7-SB256-0406	9/6/2012	2	DPT	4-6			X
X7-SS257-0001	11/9/2011	1	HA	0-1			X
X7-SS257-0102	11/9/2011	1	HA	1-2			X
X7-SS258-0001	11/9/2011	1	HA	0-1			X
X7-SS258-0102	11/9/2011	1	HA	1-2			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS259-0001	11/9/2011	1	HA	0-1			X
X7-SS259-0102	11/9/2011	1	HA	1-2			X
X7-SS260-0001	11/9/2011	1	HA	0-1			X
X7-SS260-0102	11/9/2011	1	HA	1-2			X
X7-SS261-0001	11/9/2011	1	HA	0-1			X
X7-SS261-0102	11/9/2011	1	HA	1-2			X
X7-SB261-0204	9/6/2012	2	DPT	2-4			X
X7-SB261-0406	9/6/2012	2	DPT	4-6			X
X7-SS262-0001	11/9/2011	1	HA	0-1			X
X7-SS262-0102	11/9/2011	1	HA	1-2			X
X7-SS263-0001	11/9/2011	1	HA	0-1			X
X7-SS263-0102	11/9/2011	1	HA	1-2			X
X7-SS265-0001	11/9/2011	1	HA	0-1			X
X7-SS265-0102	11/9/2011	1	HA	1-2			X
X7-SS266-0001	11/9/2011	1	HA	0-1			X
X7-SS266-0102	11/9/2011	1	HA	1-2			X
X7-SS267-0001	11/9/2011	1	HA	0-1			X
X7-SS267-0102	11/9/2011	1	HA	1-2			X
X7-SS270-0001	11/9/2011	1	HA	0-1			X
X7-SS270-0102	11/9/2011	1	HA	1-2			X
X7-SS271-0001	11/9/2011	1	HA	0-1			X
X7-SS271-0102	11/9/2011	1	HA	1-2			X
X7-SS272-0001	11/9/2011	1	HA	0-1			X
X7-SS272-0102	11/9/2011	1	HA	1-2			X
X7-SS479-0001	No Sample Collected(1)						
X7-SS479-0102	No Sample Collected(1)						
X7-SB479-0204	No Sample Collected(1)						
X7-SB479-0406	No Sample Collected(1)						
X7-SS480-0001	No Sample Collected(1)						
X7-SS480-0102	No Sample Collected(1)						
X7-SB480-0204	No Sample Collected(1)						
X7-SB480-0406	No Sample Collected(1)						
X7-SS481-0001	No Sample Collected(1)						
X7-SS481-0102	No Sample Collected(1)						
X7-SB481-0204	No Sample Collected(1)						
X7-SB481-0406	No Sample Collected(1)						

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS482-0001	No Sample Collected(1)						
X7-SS482-0102	No Sample Collected(1)						
X7-SB482-0204	No Sample Collected(1)						
X7-SB482-0406	No Sample Collected(1)						
X7-SS483-0001	No Sample Collected(1)						
X7-SS483-0102	No Sample Collected(1)						
X7-SB483-0204	No Sample Collected(1)						
X7-SB483-0406	No Sample Collected(1)						
X7-SS484-0001	No Sample Collected(1)						
X7-SS484-0102	No Sample Collected(1)						
X7-SB484-0204	No Sample Collected(1)						
X7-SB484-0406	No Sample Collected(1)						
X7-SS485-0001	No Sample Collected(1)						
X7-SS485-0102	No Sample Collected(1)						
X7-SB485-0204	No Sample Collected(1)						
X7-SB485-0406	No Sample Collected(1)						
X7-SS486-0001	No Sample Collected(1)						
X7-SS486-0102	No Sample Collected(1)						
X7-SB486-0204	No Sample Collected(1)						
X7-SB486-0406	No Sample Collected(1)						
X7-SS487-0001	No Sample Collected(1)						
X7-SS487-0102	No Sample Collected(1)						
X7-SB487-0204	No Sample Collected(1)						
X7-SB487-0406	No Sample Collected(1)						
X7-SS488-0001	No Sample Collected(1)						
X7-SS488-0102	No Sample Collected(1)						
X7-SB488-0204	No Sample Collected(1)						
X7-SB488-0406	No Sample Collected(1)						
X7-SS489-0001	No Sample Collected(1)						
X7-SS489-0102	No Sample Collected(1)						
X7-SB489-0204	No Sample Collected(1)						
X7-SB489-0406	No Sample Collected(1)						
X7-SS490-0001	No Sample Collected(1)						
X7-SS490-0102	No Sample Collected(1)						
X7-SB490-0204	No Sample Collected(1)						
X7-SB490-0406	No Sample Collected(1)						

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS491-0001	9/6/2012	2	DPT	0-1			X
X7-SS491-0102	9/6/2012	2	DPT	1-2			X
X7-SB491-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB491-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS492-0001	9/6/2012	2	DPT	0-1			X
X7-SS492-0102	9/6/2012	2	DPT	1-2			X
X7-SB492-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB492-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS493-0001	9/6/2012	2	DPT	0-1			X
X7-SS493-0102	9/6/2012	2	DPT	1-2			X
X7-SB493-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB493-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS494-0001	9/6/2012	2	DPT	0-1			X
X7-SS494-0102	9/6/2012	2	DPT	1-2			X
X7-SB494-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB494-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS495-0001	No Sample Collected(1)						
X7-SS495-0102	No Sample Collected(1)						
X7-SB495-0204	No Sample Collected(1)						
X7-SB495-0406	No Sample Collected(1)						
X7-SS496-0001	No Sample Collected(1)						
X7-SS496-0102	No Sample Collected(1)						
X7-SB496-0204	No Sample Collected(1)						
X7-SB496-0406	No Sample Collected(1)						
X7-SS497-0001	10/3/2012	2	DPT	0-1			X
X7-SS497-0102	10/3/2012	2	DPT	1-2			X
X7-SB497-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB497-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS498-0001	9/6/2012	2	DPT	0-1			X
X7-SS498-0102	9/6/2012	2	DPT	1-2			X
X7-SB498-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB498-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS499-0001	No Sample Collected(1)						
X7-SS499-0102	No Sample Collected(1)						
X7-SB499-0204	No Sample Collected(1)						
X7-SB499-0406	No Sample Collected(1)						

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS500-0001	No Sample Collected(1)						
X7-SS500-0102	No Sample Collected(1)						
X7-SB500-0204	No Sample Collected(1)						
X7-SB500-0406	No Sample Collected(1)						
X7-SS501-0001	No Sample Collected(1)						
X7-SS501-0102	No Sample Collected(1)						
X7-SB501-0204	No Sample Collected(1)						
X7-SB501-0406	No Sample Collected(1)						
X7-SS502-0001	9/6/2012	2	DPT	0-1			X
X7-SS502-0102	9/6/2012	2	DPT	1-2			X
X7-SB502-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB502-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS503-0001	9/6/2012	2	DPT	0-1			X
X7-SS503-0102	9/6/2012	2	DPT	1-2			X
X7-SB503-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB503-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS504-0001	10/3/2012	2	DPT	0-1			X
X7-SS504-0102	10/3/2012	2	DPT	1-2			X
X7-SB504-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB504-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS505-0001	9/6/2012	2	DPT	0-1			X
X7-SS505-0102	9/6/2012	2	DPT	1-2			X
X7-SB505-0204	9/6/2012	2	DPT	2-4			X
X7-SB505-0406	9/6/2012	2	DPT	4-6			X
X7-SS506-0001	10/3/2012	2	DPT	0-1			X
X7-SS506-0102	10/3/2012	2	DPT	1-2			X
X7-SB506-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB506-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS507-0001	9/6/2012	2	DPT	0-1			X
X7-SS507-0102	9/6/2012	2	DPT	1-2			X
X7-SB507-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB507-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS508-0001	No Sample Collected(1)						
X7-SS508-0102	No Sample Collected(1)						
X7-SB508-0204	No Sample Collected(1)						
X7-SB508-0406	No Sample Collected(1)						

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS509-0001	No Sample Collected(1)						
X7-SS509-0102	No Sample Collected(1)						
X7-SB509-0204	No Sample Collected(1)						
X7-SB509-0406	No Sample Collected(1)						
X7-SS510-0001	9/6/2012	2	DPT	0-1			X
X7-SS510-0102	9/6/2012	2	DPT	1-2			X
X7-SB510-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB510-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS511-0001	9/6/2012	2	DPT	0-1			X
X7-SS511-0102	9/6/2012	2	DPT	1-2			X
X7-SB511-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB511-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS512-0001	No Sample Collected(1)						
X7-SS512-0102	No Sample Collected(1)						
X7-SB512-0204	No Sample Collected(1)						
X7-SB512-0406	No Sample Collected(1)						
X7-SS513-0001	10/3/2012	2	DPT	0-1			X
X7-SS513-0102	10/3/2012	2	DPT	1-2			X
X7-SB513-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB513-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS514-0001	No Sample Collected(1)						
X7-SS514-0102	No Sample Collected(1)						
X7-SB514-0204	No Sample Collected(1)						
X7-SB514-0406	No Sample Collected(1)						
X7-SS515-0001	No Sample Collected(1)						
X7-SS515-0102	No Sample Collected(1)						
X7-SB515-0204	No Sample Collected(1)						
X7-SB515-0406	No Sample Collected(1)						
X7-SS516-0001	No Sample Collected(1)						
X7-SS516-0102	No Sample Collected(1)						
X7-SB516-0204	No Sample Collected(1)						
X7-SB516-0406	No Sample Collected(1)						
X7-SS517-0001	No Sample Collected(1)						
X7-SS517-0102	No Sample Collected(1)						
X7-SB517-0204	No Sample Collected(1)						
X7-SB517-0406	No Sample Collected(1)						

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS518-0001	9/6/2012	2	DPT	0-1			X
X7-SS518-0102	9/6/2012	2	DPT	1-2			X
X7-SB518-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB518-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS519-0001	9/6/2012	2	DPT	0-1			X
X7-SS519-0102	9/6/2012	2	DPT	1-2			X
X7-SB519-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB519-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS520-0001	No Sample Collected(1)						
X7-SS520-0102	No Sample Collected(1)						
X7-SB520-0204	No Sample Collected(1)						
X7-SB520-0406	No Sample Collected(1)						
X7-SS521-0001	9/6/2012	2	DPT	0-1			X
X7-SS521-0102	9/6/2012	2	DPT	1-2			X
X7-SB521-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB521-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS522-0001	9/6/2012	2	DPT	0-1			X
X7-SS522-0102	9/6/2012	2	DPT	1-2			X
X7-SB522-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB522-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS523-0001	No Sample Collected(1)						
X7-SS523-0102	No Sample Collected(1)						
X7-SB523-0204	No Sample Collected(1)						
X7-SB523-0406	No Sample Collected(1)						
X7-SS524-0001	No Sample Collected(1)						
X7-SS524-0102	No Sample Collected(1)						
X7-SB524-0204	No Sample Collected(1)						
X7-SB524-0406	No Sample Collected(1)						
X7-SS525-0001	9/6/2012	2	DPT	0-1			X
X7-SS525-0102	9/6/2012	2	DPT	1-2			X
X7-SB525-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB525-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS526-0001	9/6/2012	2	DPT	0-1			X
X7-SS526-0102	9/6/2012	2	DPT	1-2			X
X7-SB526-0204	9/6/2012	2	DPT	2-4			X
X7-SB526-0406	9/6/2012	2	DPT	4-6			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS527-0001	9/6/2012	2	DPT	0-1			X
X7-SS527-0102	9/6/2012	2	DPT	1-2			X
X7-SB527-0204	9/6/2012	2	DPT	2-4			X
X7-SB527-0406	9/6/2012	2	DPT	4-6			X
X7-SS528-0001	9/6/2012	2	DPT	0-1			X
X7-SS528-0102	9/6/2012	2	DPT	1-2			X
X7-SB528-0204	9/6/2012	2	DPT	2-4			X
X7-SB528-0406	9/6/2012	2	DPT	4-6			X
X7-SS529-0001	9/6/2012	2	DPT	0-1			X
X7-SS529-0102	9/6/2012	2	DPT	1-2			X
X7-SB529-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB529-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS530-0001	9/6/2012	2	DPT	0-1			X
X7-SS530-0102	9/6/2012	2	DPT	1-2			X
X7-SB530-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB530-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS531-0001	9/6/2012	2	DPT	0-1			X
X7-SS531-0102	9/6/2012	2	DPT	1-2			X
X7-SB531-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB531-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS532-0001	No Sample Collected(1)						
X7-SS532-0102	No Sample Collected(1)						
X7-SB532-0204	No Sample Collected(1)						
X7-SB532-0406	No Sample Collected(1)						
X7-SS533-0001	10/3/2012	2	DPT	0-1			X
X7-SS533-0102	10/3/2012	2	DPT	1-2			X
X7-SB533-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB533-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS534-0001	No Sample Collected(1)						
X7-SS534-0102	No Sample Collected(1)						
X7-SB534-0204	No Sample Collected(1)						
X7-SB534-0406	No Sample Collected(1)						
X7-SS535-0001	9/6/2012	2	DPT	0-1			X
X7-SS535-0102	9/6/2012	2	DPT	1-2			X
X7-SB535-0204	9/6/2012	2	DPT	2-4			X
X7-SB535-0406	9/6/2012	2	DPT	4-6			X

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS536-0001	9/6/2012	2	DPT	0-1			X
X7-SS536-0102	9/6/2012	2	DPT	1-2			X
X7-SB536-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB536-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS537-0001	No Sample Collected(1)						
X7-SS537-0102	No Sample Collected(1)						
X7-SB537-0204	No Sample Collected(1)						
X7-SB537-0406	No Sample Collected(1)						
X7-SS538-0001	No Sample Collected(1)						
X7-SS538-0102	No Sample Collected(1)						
X7-SB538-0204	No Sample Collected(1)						
X7-SB538-0406	No Sample Collected(1)						
X7-SS539-0001	No Sample Collected(1)						
X7-SS539-0102	No Sample Collected(1)						
X7-SB539-0204	No Sample Collected(1)						
X7-SB539-0406	No Sample Collected(1)						
X7-SS540-0001	10/3/2012	2	DPT	0-1			X
X7-SS540-0102	10/3/2012	2	DPT	1-2			X
X7-SB540-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB540-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS541-0001	9/6/2012	2	DPT	0-1			X
X7-SS541-0102	9/6/2012	2	DPT	1-2			X
X7-SB541-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB541-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS542-0001	9/6/2012	2	DPT	0-1			X
X7-SS542-0102	9/6/2012	2	DPT	1-2			X
X7-SB542-0204	9/6/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB542-0406	9/6/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS543-0001	No Sample Collected(1)						
X7-SS543-0102	No Sample Collected(1)						
X7-SB543-0204	No Sample Collected(1)						
X7-SB543-0406	No Sample Collected(1)						
X7-SS544-0001	No Sample Collected(1)						
X7-SS544-0102	No Sample Collected(1)						
X7-SB544-0204	No Sample Collected(1)						
X7-SB544-0406	No Sample Collected(1)						

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS545-0001	No Sample Collected(1)						
X7-SS545-0102	No Sample Collected(1)						
X7-SB545-0204	No Sample Collected(1)						
X7-SB545-0406	No Sample Collected(1)						
X7-SS546-0001	10/3/2012	2	DPT	0-1			X
X7-SS546-0102	10/3/2012	2	DPT	1-2			X
X7-SB546-0204	10/3/2012	2	DPT	2-4	Sample Not Analyzed(2)		
X7-SB546-0406	10/3/2012	2	DPT	4-6	Sample Not Analyzed(2)		
X7-SS547-0001	No Sample Collected(1)						
X7-SS547-0102	No Sample Collected(1)						
X7-SB547-0204	No Sample Collected(1)						
X7-SB547-0406	No Sample Collected(1)						
X7-SS548-0001	No Sample Collected(1)						
X7-SS548-0102	No Sample Collected(1)						
X7-SB548-0204	No Sample Collected(1)						
X7-SB548-0406	No Sample Collected(1)						
X7-SS549-0001	No Sample Collected(1)						
X7-SS549-0102	No Sample Collected(1)						
X7-SB549-0204	No Sample Collected(1)						
X7-SB549-0406	No Sample Collected(1)						
X7-SS550-0001	No Sample Collected(1)						
X7-SS550-0102	No Sample Collected(1)						
X7-SB550-0204	No Sample Collected(1)						
X7-SB550-0406	No Sample Collected(1)						
Northernmost Area of Northern Zone - 500-yard Rifle Range (Figure 2-3)							
X7-SS054-0002	10/4/2007	RFI-2007	HA	0-2	X		
X7-SS055-0002	10/4/2007	RFI-2007	HA	0-2	X	X	
X7-SB055-0203	9/8/2012	2	DPT	2-3	X		
X7-SB055-0304	9/8/2012	2	DPT	3-4	X		
X7-SS173-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS174-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SB174-0203	9/8/2012	2	DPT	2-3	X		
X7-SB174-0304	9/8/2012	2	DPT	3-4	X		
X7-SS175-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS176-0002	10/7/2007	RFI-2007	HA	0-2	X		
X7-SS189-0002	10/9/2007	RFI-2007	HA	0-2	X	X	

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS190-0002	10/9/2007	RFI-2007	HA	0-2	X		
X7-SB190-0203	9/8/2012	2	DPT	2-3	X		
X7-SB190-0304	9/8/2012	2	DPT	3-4	X		
X7-SS274-0001	11/8/2011	1	HA	0-1	X		
X7-SS274-0102	11/8/2011	1	HA	1-2	X		
X7-SB274-0203	9/8/2012	2	DPT	2-3	X		
X7-SB274-0304	9/8/2012	2	DPT	3-4	X		
X7-SS275-0001	11/8/2011	1	HA	0-1	X		
X7-SS275-0102	11/8/2011	1	HA	1-2	X		
X7-SB275-0203	9/8/2012	2	DPT	2-3	X		
X7-SB275-0304	9/8/2012	2	DPT	3-4	X		
X7-SS276-0001	11/8/2011	1	HA	0-1	X		
X7-SS276-0102	11/8/2011	1	HA	1-2	X		
X7-SS277-0001	11/8/2011	1	HA	0-1	X		
X7-SS277-0102	11/8/2011	1	HA	1-2	X		
X7-SB277-0203	9/8/2012	2	DPT	2-3	X		
X7-SB277-0304	9/8/2012	2	DPT	3-4	X		
X7-SS278-0001	11/8/2011	1	HA	0-1	X		
X7-SS278-0102	11/8/2011	1	HA	1-2	X		
X7-SB278-0203	9/8/2012	2	DPT	2-3	X		
X7-SB278-0304	9/8/2012	2	DPT	3-4	X		
X7-SS279-0001	11/8/2011	1	HA	0-1	X		
X7-SS279-0102	11/8/2011	1	HA	1-2	X		
X7-SB279-0203	11/12/2011	1	DPT	2-3	X	X	
X7-SS280-0001	11/8/2011	1	HA	0-1	X		
X7-SS280-0102	11/8/2011	1	HA	1-2	X	X	
X7-SS281-0001	11/8/2011	1	HA	0-1	X		
X7-SS281-0102	11/8/2011	1	HA	1-2	X		
X7-SS282-0001	11/8/2011	1	HA	0-1	X		
X7-SS282-0102	11/8/2011	1	HA	1-2	X		
X7-SB282-0203	11/12/2011	1	HA	2-3	X		
X7-SS283-0001	11/8/2011	1	HA	0-1	X		
X7-SS283-0102	11/8/2011	1	HA	1-2	X		
X7-SB283-0203	9/8/2012	2	DPT	2-3	X		
X7-SB283-0304	9/8/2012	2	DPT	3-4	X		
X7-SS284-0001	11/8/2011	1	HA	0-1	X		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS284-0102	11/8/2011	1	HA	1-2	X		
X7-SS285-0001	11/8/2011	1	HA	0-1	X		
X7-SB285-0102	9/8/2012	2	DPT	1-2	X		
X7-SB285-0203	9/8/2012	2	DPT	2-3	X		
X7-SB285-0304	9/8/2012	2	DPT	3-4	X		
X7-SS286-0001	11/8/2011	1	HA	0-1	X		
X7-SS287-0001	11/8/2011	1	HA	0-1	X	X	
X7-SS288-0001	11/8/2011	1	HA	0-1	X	X	
X7-SS289-0001	11/8/2011	1	HA	0-1	X		
X7-SS290-0001	11/8/2011	1	HA	0-1	X		
X7-SS290-0102	11/8/2011	1	HA	1-2	X		
X7-SS321-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS321-0102	11/12/2011	1	HA	1-2	X		
X7-SS323-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS323-0102	11/12/2011	1	HA	1-2	X		
X7-SS325-0001	11/12/2011	1	HA	0-1	X		
X7-SS325-0102	11/11/2011	1	HA	1-2	X		
X7-SS327-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS329-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS331-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS331-0102	11/12/2011	1	HA	1-2	X		
X7-SS333-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS333-0102	11/12/2011	1	HA	1-2	X		
X7-SS336-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS336-0102	11/12/2011	1	HA	1-2	X		
X7-SS337-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS342-0102	11/12/2011	1	HA	1-2	X	X	
X7-SB342-0203	9/8/2012	2	DPT	2-3	X		
X7-SB342-0304	9/8/2012	2	DPT	3-4	X		
X7-SS344-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS344-0102	11/12/2011	1	HA	1-2	X		
X7-SS423-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS423-0102	11/14/2011	1	HA	1-2	X		
X7-SS424-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS424-0102	11/14/2011	1	HA	1-2	X	X	
X7-SS425-0001	11/14/2011	1	HA	0-1	X	X	

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS425-0102	11/14/2011	1	HA	1-2	X		
X7-SB426-0304	11/14/2011	1	DPT	3-4	X		
X7-SB427-0304	11/14/2011	1	DPT	3-4	X	X	
X7-SB428-0304	11/14/2011	1	DPT	3-4	X		
X7-SS429-0001	11/14/2011	1	HA	0-1	X	X	
X7-SB567-0001	9/9/2012	2	DPT	0-1	X		
X7-SB567-0102	9/9/2012	2	DPT	1-2	X		
X7-SB567-0203	9/9/2012	2	DPT	2-3	NA		
X7-SB567-0304	9/9/2012	2	DPT	3-4	NA		
X7-SB568-0001	9/9/2012	2	DPT	0-1	X		
X7-SB568-0102	9/9/2012	2	DPT	1-2	X	X	
X7-SB568-0203	9/9/2012	2	DPT	2-3	X		
X7-SB568-0304	9/9/2012	2	DPT	3-4	X		
X7-SB569-0001	9/9/2012	2	DPT	0-1	X		
X7-SB569-0102	9/9/2012	2	DPT	1-2	X	X	
X7-SB569-0203	9/9/2012	2	DPT	2-3	X		
X7-SB569-0304	9/9/2012	2	DPT	3-4	X		
X7-SB570-0001	9/9/2012	2	DPT	0-1	X		
X7-SB570-0102	9/9/2012	2	DPT	1-2	X		
X7-SB570-0203	9/9/2012	2	DPT	2-3	X		
X7-SB570-0304	9/9/2012	2	DPT	3-4	X		
X7-SB571-0001	9/9/2012	2	DPT	0-1	X		
X7-SB571-0102	9/9/2012	2	DPT	1-2	X		
X7-SB571-0203	9/9/2012	2	DPT	2-3	NA		
X7-SB571-0304	9/9/2012	2	DPT	3-4	NA		
X7-SB572-0001	9/9/2012	2	DPT	0-1	X		
X7-SB572-0102	9/9/2012	2	DPT	1-2	X		
X7-SB572-0203	9/9/2012	2	DPT	2-3	NA		
X7-SB572-0304	9/9/2012	2	DPT	3-4	NA		
X7-SB573-0001	9/8/2012	2	DPT	0-1	X		
X7-SB573-0102	9/8/2012	2	DPT	1-2	X		
X7-SB573-0203	9/8/2012	2	DPT	2-3	NA		
X7-SB573-0304	9/8/2012	2	DPT	3-4	NA		
X7-SB574-0001	9/8/2012	2	DPT	0-1	X		
X7-SB574-0102	9/8/2012	2	DPT	1-2	X		
X7-SB574-0203	9/8/2012	2	DPT	2-3	NA		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB574-0304	9/8/2012	2	DPT	3-4	NA		
X7-SB575-0001	9/9/2012	2	DPT	0-1	X		
X7-SB575-0102	9/9/2012	2	DPT	1-2	X		
X7-SB575-0203	9/9/2012	2	DPT	2-3	NA		
X7-SB575-0304	9/9/2012	2	DPT	3-4	NA		
X7-SB576-0001	9/9/2012	2	DPT	0-1	X		
X7-SB576-0102	9/9/2012	2	DPT	1-2	X		
X7-SB576-0203	9/9/2012	2	DPT	2-3	NA		
X7-SB576-0304	9/9/2012	2	DPT	3-4	NA		
X7-SB577-0001	9/9/2012	2	DPT	0-1	X	X	
X7-SB577-0102	9/9/2012	2	DPT	1-2	X		
X7-SB577-0203	9/9/2012	2	DPT	2-3	NA		
X7-SB577-0304	9/9/2012	2	DPT	3-4	NA		
X7-SS607-0001	9/10/2012	2	DPT	0-1	X		
X7-SS607-0102	9/10/2012	2	DPT	1-2	X		
X7-SS607-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS607-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS608-0001	9/10/2012	2	DPT	0-1	X	X	
X7-SS608-0102	9/10/2012	2	DPT	1-2	X		
X7-SS608-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS608-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS609-0001	9/10/2012	2	DPT	0-1	X		
X7-SS609-0102	9/10/2012	2	DPT	1-2	X		
X7-SS609-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS609-0304	9/10/2012	2	DPT	3-4	NA		
Central Area of Northern Zone - 400-yard Firing Berm (Figure 2-4)							
X7-SS043-0002	10/3/2007	RFI-2007	HA	0-2	X		
X7-SS044-0002	10/3/2007	RFI-2007	HA	0-2	X	X	
X7-SS044-0102	9/7/2012	2	DPT	1-2	X		
X7-SB044-0203	9/7/2012	2	DPT	2-3	X		
X7-SS045-0002	10/3/2007	RFI-2007	HA	0-2	X	X	
X7-SB045-0203	9/7/2012	2	DPT	2-3	X		
X7-SB045-0304	9/7/2012	2	DPT	3-4	X		
X7-SB045-0405	9/8/2012	2	DPT	4-5	X		
X7-SB045-0506	9/8/2012	2	DPT	5-6	X		
X7-SS046-0002	10/3/2007	RFI-2007	HA	0-2	X	X	

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB046-0203	9/8/2012	2	DPT	2-3	X		
X7-SB046-0304	9/8/2012	2	DPT	3-4	X		
X7-SB046-0405	9/10/2012	2	DPT	4-5	X		
X7-SB046-0506	9/10/2012	2	DPT	5-6	X		
X7-SS047-0002	10/3/2007	RFI-2007	HA	0-2	X		
X7-SS048-0002	10/3/2007	RFI-2007	HA	0-2	X	X	
X7-SS057-0002	10/4/2007	RFI-2007	HA	0-2	X	X	
X7-SS177-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS178-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS179-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS180-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS181-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SB181-0203	9/8/2012	2	DPT	X	X		
X7-SB181-0304	9/8/2012	2	DPT	3-4	X		
X7-SS182-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS291-0001	11/8/2011	1	HA	0-1	X		
X7-SS291-0102	11/8/2011	1	HA	1-2	X		
X7-SB291-0203	11/11/2011	1	HA	2-3	X	X	
X7-SB291-0304	9/7/2012	2	DPT	3-4	X		
X7-SB291-0405	9/7/2012	2	DPT	4-5	X		
X7-SS292-0001	11/8/2011	1	HA	0-1	X		
X7-SS292-0102	11/8/2011	1	HA	1-2	X		
X7-SS293-0001	11/8/2011	1	HA	0-1	X		
X7-SS294-0001	11/8/2011	1	HA	0-1	X		
X7-SS294-0102	11/8/2011	1	HA	1-2	X		
X7-SS295-0001	11/8/2011	1	HA	0-1	X		
X7-SS295-0102	11/8/2011	1	HA	1-2	X		
X7-SB295-0203	11/11/2011	1	HA	2-3	X		
X7-SB295-0304	9/8/2012	2	DPT	3-4	X	X	
X7-SB295-0405	9/8/2012	2	DPT	4-5	X		
X7-SS296-0001	11/8/2011	1	HA	0-1	X		
X7-SS296-0102	11/8/2011	1	HA	1-2	X		
X7-SB296-0203	11/11/2011	1	HA	2-3	X		
X7-SB296-0304	9/8/2012	2	DPT	3-4	X		
X7-SB296-0405	9/8/2012	2	DPT	4-5	X		
X7-SB296-0506	9/10/2012	2	DPT	5-6	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
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NSA CRANE
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB296-0607	9/10/2012	2	DPT	6-7	X		
X7-SS297-0001	11/7/2011	1	HA	0-1	X		
X7-SS297-0102	11/7/2011	1	HA	1-2	X		
X7-SB297-0203	11/11/2011	1	HA	2-3	X		
X7-SB297-0304	9/8/2012	2	DPT	3-4	X		
X7-SB297-0405	9/8/2012	2	DPT	4-5	X		
X7-SS298-0001	11/7/2011	1	HA	0-1	X		
X7-SS298-0102	11/7/2011	1	HA	1-2	X		
X7-SB298-0203	9/8/2012	2	DPT	2-3	X		
X7-SB298-0304	9/8/2012	2	DPT	3-4	X		
X7-SB298-0405	9/9/2012	2	DPT	4-5	X	X	
X7-SB298-0506	9/9/2012	2	DPT	5-6	X		
X7-SS299-0001	11/7/2011	1	HA	0-1	X		
X7-SS299-0102	11/7/2011	1	HA	1-2	X		
X7-SB299-0203	11/11/2011	1	HA	2-3	X		
X7-SS300-0001	11/7/2011	1	HA	0-1	X		
X7-SS300-0102	11/7/2011	1	HA	1-2	X		
X7-SB300-0203	9/8/2012	2	DPT	2-3	X		
X7-SB300-0304	9/8/2012	2	DPT	3-4	X		
X7-SB300-0405	9/10/2012	2	DPT	4-5	X		
X7-SB300-0506	9/10/2012	2	DPT	5-6	X		
X7-SS301-0001	11/7/2011	1	HA	0-1	X		
X7-SS301-0102	11/7/2011	1	HA	1-2	X		
X7-SB301-0203	11/11/2011	1	HA	2-3	X		
X7-SB301-0304	9/8/2012	2	DPT	3-4	X		
X7-SB301-0405	9/8/2012	2	DPT	4-5	X		
X7-SS302-0001	11/7/2011	1	HA	0-1	X		
X7-SS302-0102	11/7/2011	1	HA	1-2	X		
X7-SS303-0001	11/7/2011	1	HA	0-1	X		
X7-SS303-0102	11/7/2011	1	HA	1-2	X		
X7-SB303-0203	9/8/2012	2	DPT	2-3	X		
X7-SB303-0304	9/8/2012	2	DPT	3-4	X		
X7-SS304-0001	11/7/2011	1	HA	0-1	X		
X7-SS305-0001	11/8/2011	1	HA	0-1	X		
X7-SS305-0102	11/8/2011	1	HA	1-2	X		
X7-SS306-0001	11/8/2011	1	HA	0-1	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS306-0102	11/8/2011	1	HA	1-2	X		
X7-SB306-0203	11/11/2011	1	HA	2-3	X		
X7-SS307-0001	11/8/2011	1	HA	0-1	X		
X7-SS307-0102	11/8/2011	1	HA	1-2	X		
X7-SS308-0001	11/7/2011	1	HA	0-1	X		
X7-SS308-0102	11/7/2011	1	HA	1-2	X		
X7-SB308-0203	11/11/2011	1	HA	2-3	X		
X7-SS345-0001	11/11/2011	1	HA	0-1	X		
X7-SS345-0102	11/11/2011	1	HA	1-2	X	X	
X7-SS347-0001	11/11/2011	1	HA	0-1	X		
X7-SS347-0102	11/11/2011	1	HA	1-2	X	X	
X7-SS349-0001	11/11/2011	1	HA	0-1	X		
X7-SS349-0102	11/11/2011	1	HA	1-2	X		
X7-SB349-0203	9/8/2012	2	DPT	2-3	X		
X7-SB349-0304	9/8/2012	2	DPT	3-4	X		
X7-SS351-0001	11/11/2011	1	HA	0-1	X	X	
X7-SS351-0102	11/11/2011	1	HA	1-2	X	X	
X7-SB351-0203	9/7/2012	2	DPT	2-3	X		
X7-SB351-0304	9/7/2012	2	DPT	3-4	X	X	
X7-SB351-0405	9/10/2012	2	DPT	4-5	X		
X7-SB351-0506	9/10/2012	2	DPT	5-6	X	X	
X7-SB351-0607	9/11/2012	2	DPT	6-7	X		
X7-SB351-0708	9/11/2012	2	DPT	7-8	X		
X7-SS353-0001	11/11/2011	1	HA	0-1	X	X	
X7-SS355-0001	11/11/2011	1	HA	0-1	X	X	
X7-SS355-0102	11/11/2011	1	HA	1-2	X		
X7-SS357-0001	11/11/2011	1	HA	0-1	X		
X7-SS357-0102	11/11/2011	1	HA	1-2	X		
X7-SS358-0001	11/11/2011	1	HA	0-1	X		
X7-SS358-0102	11/11/2011	1	HA	1-2	X		
X7-SB358-0203	9/8/2012	2	DPT	2-3	X		
X7-SB358-0304	9/8/2012	2	DPT	3-4	X		
X7-SB358-0405	9/10/2012	2	DPT	4-5	X		
X7-SB358-0506	9/10/2012	2	DPT	5-6	X	X	
X7-SB358-0607	9/11/2012	2	DPT	6-7	X		
X7-SB358-0708	9/11/2012	2	DPT	7-8	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS360-0001	11/11/2011	1	HA	0-1	X		
X7-SS360-0102	11/11/2011	1	HA	1-2	X		
X7-SB360-0203	9/8/2012	2	DPT	2-3	X		
X7-SB360-0304	9/8/2012	2	DPT	3-4	X		
X7-SS361-0001	11/11/2011	1	HA	0-1	X		
X7-SS361-0102	11/11/2011	1	HA	1-2	X		
X7-SB361-0203	9/8/2012	2	DPT	2-3	X		
X7-SB361-0304	9/8/2012	2	DPT	3-4	X		
X7-SS363-0001	11/11/2011	1	HA	0-1	X	X	
X7-SS363-0102	11/11/2011	1	HA	1-2	X		
X7-SS365-0001	11/11/2011	1	HA	0-1	X		
X7-SS365-0102	11/11/2011	1	HA	1-2	X		
X7-SB365-0203	9/8/2012	2	DPT	2-3	X		
X7-SB365-0304	9/8/2012	2	DPT	3-4	X		
X7-SS368-0001	11/11/2011	1	HA	0-1	X		
X7-SS368-0102	11/11/2011	1	HA	1-2	X		
X7-SB368-0203	9/9/2012	2	DPT	2-3	X	X	
X7-SB368-0304	9/9/2012	2	DPT	3-4	X		
X7-SS369-0001	11/11/2011	1	HA	0-1	X		
X7-SS369-0102	11/11/2011	1	HA	1-2	X	X	
X7-SB369-0203	9/8/2012	2	DPT	2-3	X		
X7-SB369-0304	9/8/2012	2	DPT	3-4	X		
X7-SB369-0405	9/8/2012	2	DPT	4-5	X		
X7-SB369-0506	9/8/2012	2	DPT	5-6	X		
X7-SS391-0001	11/8/2011	1	HA	0-1	X		
X7-SS391-0102	11/8/2011	1	HA	1-2	X		
X7-SB391-0203	11/11/2011	1	HA	2-3	X		
X7-SS392-0001	11/8/2011	1	HA	0-1	X	X	
X7-SS393-0001	11/8/2011	1	HA	0-1	X		
X7-SS393-0102	11/8/2011	1	HA	1-2	X	X	
X7-SB393-0203	11/11/2011	1	HA	2-3	X		
X7-SS394-0001	11/8/2011	1	HA	0-1	X		
X7-SS394-0102	11/8/2011	1	HA	1-2	X		
X7-SB394-0203	11/11/2011	1	HA	2-3	X		
X7-SS395-0001	11/8/2011	1	HA	0-1	X		
X7-SS395-0102	11/8/2011	1	HA	1-2	X		

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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB395-0203	11/11/2011	1	HA	2-3	X		
X7-SB395-0304	9/8/2012	2	HA	3-4	X		
X7-SB395-0405	9/8/2012	2	HA	4-5	X	X	
X7-SB395-0506	9/10/2012	2	HA	5-6	X		
X7-SB395-0607	9/10/2012	2	HA	6-7	X		
X7-SS396-0001	11/8/2011	1	HA	0-1	X		
X7-SS396-0102	11/8/2011	1	HA	1-2	X		
X7-SB396-0203	11/11/2011	1	HA	2-3	X		
X7-SB396-0304	No Sample Collected(3)						
X7-SB396-0405	No Sample Collected(3)						
X7-SS398-0001	11/11/2011	1	HA	0-1	X		
X7-SS398-0102	11/11/2011	1	HA	1-2	X		
X7-SB398-0203	9/7/2012	2	DPT	2-3	X		
X7-SB398-0304	9/7/2012	2	DPT	3-4	X		
X7-SB398-0405	9/8/2012	2	DPT	4-5	X		
X7-SB398-0506	9/8/2012	2	DPT	5-6	X		
X7-SS400-0001	11/11/2011	1	HA	0-1	X		
X7-SS401-0001	11/11/2011	1	HA	0-1	X	X	
X7-SS401-0102	11/11/2011	1	HA	1-2	X		
X7-SB401-0203	9/7/2012	2	DPT	2-3	X		
X7-SB401-0304	9/7/2012	2	DPT	3-4	X		
X7-SS402-0001	11/11/2011	1	HA	0-1	X	X	
X7-SS404-0001	11/11/2011	1	HA	0-1	X		
X7-SS404-0102	11/11/2011	1	HA	1-2	X		
X7-SS406-0001	11/11/2011	1	HA	0-1	X		
X7-SS407-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS408-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS408-0102	11/14/2011	1	HA	1-2	X		
X7-SB409-0304	11/14/2011	1	DPT	3-4	X		
X7-SB409-0405	9/7/2012	2	DPT	4-5	X		
X7-SB409-0506	9/7/2012	2	DPT	5-6	X		
X7-SS410-0001	11/14/2011	1	HA	0-1	X	X	
X7-SB411-0304	11/14/2011	1	DPT	3-4	X		
X7-SS412-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS412-0102	11/14/2011	1	HA	1-2	X		
X7-SB413-0304	11/14/2011	1	DPT	3-4	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB413-0405	No Sample Collected(3)						
X7-SB413-0506	No Sample Collected(3)						
X7-SS414-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS414-0102	11/14/2011	1	HA	1-2	X		
X7-SS415-0001	11/14/2011	1	HA	0-1	X	X	
X7-SS415-0102	11/14/2011	1	HA	1-2	X		
X7-SS416-0001	11/14/2011	1	HA	0-1	X	X	
X7-SB417-0304	11/14/2011	1	DPT	3-4	X		
X7-SB417-0405	11/14/2011	1	DPT	4-5	X		
X7-SB417-0506	11/14/2011	1	DPT	5-6	X		
X7-SB417-0607	9/8/2012	2	DPT	6-7	X		
X7-SS418-0001	11/14/2011	1	HA	0-1	X		
X7-SS420-0001	11/14/2011	1	HA	0-1	X		
X7-SS420-0102	11/14/2011	1	HA	1-2	X		
X7-SS420-0203	11/14/2011	1	HA	2-3	X		
X7-SS421-0001	11/14/2011	1	HA	0-1	X		
X7-SS421-0102	11/14/2011	1	HA	1-2	X		
X7-SS422-0001	11/14/2011	1	HA	0-1	X		
X7-SS422-0102	11/14/2011	1	HA	1-2	X	X	
X7-SS422-0203	11/14/2011	1	HA	2-3	X		
X7-SS551-0001	9/7/2012	2	DPT	0-1	X		
X7-SS551-0102	9/7/2012	2	DPT	1-2	X		
X7-SB551-0203	9/7/2012	2	DPT	2-3	X		
X7-SB551-0304	9/7/2012	2	DPT	3-4	X		
X7-SB551-0405	9/10/2012	2	DPT	4-5	X		
X7-SB551-0506	9/10/2012	2	DPT	5-6	X		
X7-SS552-0001	9/7/2012	2	DPT	0-1	X		
X7-SS552-0102	9/7/2012	2	DPT	1-2	X		
X7-SB552-0203	9/7/2012	2	DPT	2-3	X		
X7-SB552-0304	9/7/2012	2	DPT	3-4	X		
X7-SB552-0405	9/10/2012	2	DPT	4-5	X		
X7-SB552-0506	9/10/2012	2	DPT	5-6	X		
X7-SS553-0001	9/8/2012	2	DPT	0-1	X		
X7-SS553-0102	9/8/2012	2	DPT	1-2	X		
X7-SB553-0203	9/8/2012	2	DPT	2-3	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB553-0304	9/8/2012	2	DPT	3-4	X		
X7-SS554-0001	9/8/2012	2	DPT	0-1	X		
X7-SS554-0102	9/8/2012	2	DPT	1-2	X		
X7-SB554-0203	9/8/2012	2	DPT	2-3	X		
X7-SB554-0304	9/8/2012	2	DPT	3-4	X		
X7-SB554-0405	9/10/2012	2	DPT	4-5	X		
X7-SB554-0506	9/10/2012	2	DPT	5-6	X		
X7-SS555-0001	9/8/2012	2	DPT	0-1	X		
X7-SS555-0102	9/8/2012	2	DPT	1-2	X		
X7-SB555-0203	9/8/2012	2	DPT	2-3	X		
X7-SB555-0304	9/8/2012	2	DPT	3-4	X		
X7-SS556-0001	9/8/2012	2	DPT	0-1	X		
X7-SS556-0102	9/8/2012	2	DPT	1-2	X		
X7-SB556-0203	9/8/2012	2	DPT	2-3	X		
X7-SB556-0304	9/8/2012	2	DPT	3-4	X		
X7-SB556-0405	9/10/2012	2	DPT	4-5	X		
X7-SB556-0506	9/10/2012	2	DPT	5-6	X		
X7-SB556-0607	9/11/2012	2	DPT	6-7	X		
X7-SB556-0708	9/11/2012	2	DPT	7-8	X		
X7-SS557-0001	9/8/2012	2	DPT	0-1	X		
X7-SS557-0102	9/8/2012	2	DPT	1-2	X		
X7-SB557-0203	9/8/2012	2	DPT	2-3	X		
X7-SB557-0304	9/8/2012	2	DPT	3-4	X		
X7-SB557-0405	9/10/2012	2	DPT	4-5	X		
X7-SB557-0506	9/10/2012	2	DPT	5-6	X		
X7-SS558-0001	9/8/2012	2	DPT	0-1	X		
X7-SS558-0102	9/8/2012	2	DPT	1-2	X		
X7-SB558-0203	9/8/2012	2	DPT	2-3	X		
X7-SB558-0304	9/8/2012	2	DPT	3-4	X		
X7-SB558-0405	9/10/2012	2	DPT	4-5	X		
X7-SB558-0506	9/10/2012	2	DPT	5-6	X	X	
X7-SB558-0607	9/10/2012	2	DPT	6-7	X		
X7-SB558-0708	9/10/2012	2	DPT	7-8	X		
X7-SS559-0001	9/8/2012	2	DPT	0-1	X		
X7-SS559-0102	9/8/2012	2	DPT	1-2	X		
X7-SB559-0203	9/8/2012	2	DPT	2-3	X		

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NSA CRANE
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB559-0304	9/8/2012	2	DPT	3-4	X		
X7-SS560-0001	9/8/2012	2	DPT	0-1	X		
X7-SS560-0102	9/8/2012	2	DPT	1-2	X		
X7-SB560-0203	9/8/2012	2	DPT	2-3	X		
X7-SB560-0304	9/8/2012	2	DPT	3-4	X		
X7-SS561-0001	9/8/2012	2	DPT	0-1	X		
X7-SS561-0102	9/8/2012	2	DPT	1-2	X		
X7-SB561-0203	9/8/2012	2	DPT	2-3	X	X	
X7-SB561-0304	9/8/2012	2	DPT	3-4	X		
X7-SB561-0405	9/10/2012	2	DPT	4-5	X		
X7-SB561-0506	9/10/2012	2	DPT	5-6	NA		
X7-SS562-0001	9/8/2012	2	DPT	0-1	X		
X7-SS562-0102	9/8/2012	2	DPT	1-2	X		
X7-SB562-0203	9/8/2012	2	DPT	2-3	X		
X7-SB562-0304	9/8/2012	2	DPT	3-4	X		
X7-SS563-0001	9/8/2012	2	DPT	0-1	X	X	
X7-SS563-0102	9/8/2012	2	DPT	1-2	X		
X7-SB563-0203	9/8/2012	2	DPT	2-3	X		
X7-SB563-0304	9/8/2012	2	DPT	3-4	X		
X7-SS564-0001	9/8/2012	2	DPT	0-1	X		
X7-SS564-0102	9/8/2012	2	DPT	1-2	X		
X7-SB564-0203	9/8/2012	2	DPT	2-3	X		
X7-SB564-0304	9/8/2012	2	DPT	3-4	X		
X7-SS565-0001	9/7/2012	2	DPT	0-1	X		
X7-SS565-0102	9/7/2012	2	DPT	1-2	X		
X7-SB565-0203	9/7/2012	2	DPT	2-3	X		
X7-SB565-0304	9/7/2012	2	DPT	3-4	X		
X7-SB565-0405	9/10/2012	2	DPT	4-5	X		
X7-SB565-0506	9/10/2012	2	DPT	5-6	X		
X7-SS566-0001	9/7/2012	2	DPT	0-1	X		
X7-SS566-0102	9/7/2012	2	DPT	1-2	X		
X7-SB566-0203	9/7/2012	2	DPT	2-3	X		
X7-SB566-0304	9/7/2012	2	DPT	3-4	X		
X7-SB566-0405	9/11/2012	2	DPT	4-5	X		
X7-SB566-0506	9/11/2012	2	DPT	5-6	NA		
X7-SS581-0001	9/7/2012	2	DPT	0-1	X		

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UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS581-0102	9/7/2012	2	DPT	1-2	X		
X7-SS582-0001	9/7/2012	2	DPT	0-1	X		
X7-SS582-0102	9/7/2012	2	DPT	1-2	X		
X7-SB582-0203	9/7/2012	2	DPT	2-3	X		
X7-SB582-0304	9/7/2012	2	DPT	3-4	X		
X7-SB582-0405	9/10/2012	2	DPT	4-5	X		
X7-SB582-0506	9/10/2012	2	DPT	5-6	X		
X7-SS583-0001	9/7/2012	2	DPT	0-1	X		
X7-SS583-0102	9/7/2012	2	DPT	1-2	X		
X7-SB583-0203	9/7/2012	2	DPT	2-3	X		
X7-SB583-0304	9/7/2012	2	DPT	3-4	X		
X7-SB583-0405	9/10/2012	2	DPT	4-5	X		
X7-SB583-0506	9/10/2012	2	DPT	5-6	X		
X7-SS584-0001	9/7/2012	2	DPT	0-1	X	X	
X7-SS584-0102	9/7/2012	2	DPT	1-2	X		
X7-SB584-0203	9/10/2012	2	DPT	2-3	X		
X7-SB584-0304	9/10/2012	2	DPT	3-4	X		
X7-SS585-0001	9/7/2012	2	DPT	0-1	X		
X7-SS585-0102	9/7/2012	2	DPT	1-2	X		
X7-SS585-0203	9/7/2012	2	DPT	2-3	NA		
X7-SS585-0304	9/7/2012	2	DPT	3-4	NA		
X7-SS586-0001	9/10/2012	2	DPT	0-1	X		
X7-SS586-0102	9/10/2012	2	DPT	1-2	X	X	
X7-SS586-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS586-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS587-0001	9/10/2012	2	DPT	0-1	X	X	
X7-SS587-0102	9/10/2012	2	DPT	1-2	X		
X7-SS587-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS587-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS588-0001	9/10/2012	2	DPT	0-1	X		
X7-SS588-0102	9/10/2012	2	DPT	1-2	X		
X7-SB588-0203	9/10/2012	2	DPT	2-3	X		
X7-SB588-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS589-0001	9/10/2012	2	DPT	0-1	X		
X7-SS589-0102	9/10/2012	2	DPT	1-2	X		
X7-SB589-0203	9/10/2012	2	DPT	2-3	X		

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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB589-0304	9/10/2012	2	DPT	3-4	X		
X7-SS590-0001	9/10/2012	2	DPT	0-1	X		
X7-SS590-0102	9/10/2012	2	DPT	1-2	X		
X7-SS590-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS590-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS591-0001	9/10/2012	2	DPT	0-1	X		
X7-SS591-0102	9/10/2012	2	DPT	1-2	X		
X7-SB591-0203	9/10/2012	2	DPT	2-3	X		
X7-SB591-0304	9/10/2012	2	DPT	3-4	X		
X7-SS592-0001	9/10/2012	2	DPT	0-1	X		
X7-SS592-0102	9/10/2012	2	DPT	1-2	X		
X7-SB592-0203	9/10/2012	2	DPT	2-3	X		
X7-SB592-0304	9/10/2012	2	DPT	3-4	X		
X7-SB592-0405	9/10/2012	2	DPT	4-5	X		
X7-SB592-0506	9/10/2012	2	DPT	5-6	X	X	
X7-SB592-0607	9/11/2012	2	DPT	6-7	X		
X7-SB592-0708	9/11/2012	2	DPT	7-8	X		
X7-SS593-0001	9/10/2012	2	DPT	0-1	X		
X7-SS593-0102	9/10/2012	2	DPT	1-2	X		
X7-SB593-0203	9/10/2012	2	DPT	2-3	X		
X7-SB593-0304	9/10/2012	2	DPT	3-4	X	X	
X7-SS594-0001	9/10/2012	2	DPT	0-1	X		
X7-SS594-0102	9/10/2012	2	DPT	1-2	X		
X7-SB594-0203	9/10/2012	2	DPT	2-3	X		
X7-SB594-0304	9/10/2012	2	DPT	3-4	X		
X7-SS595-0001	9/10/2012	2	DPT	0-1	X	X	
X7-SS595-0102	9/10/2012	2	DPT	1-2	X		
X7-SS595-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS595-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS596-0001	9/10/2012	2	DPT	0-1	X		
X7-SS596-0102	9/10/2012	2	DPT	1-2	X		
X7-SS596-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS596-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS597-0001	9/10/2012	2	DPT	0-1	X		
X7-SS597-0102	9/10/2012	2	DPT	1-2	X		
X7-SS597-0203	9/10/2012	2	DPT	2-3	NA		

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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS597-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS598-0001	9/10/2012	2	DPT	0-1	X		
X7-SS598-0102	9/10/2012	2	DPT	1-2	X		
X7-SS598-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS598-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS599-0001	9/10/2012	2	DPT	0-1	X		
X7-SS599-0102	9/10/2012	2	DPT	1-2	X		
X7-SS599-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS599-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS600-0001	9/10/2012	2	DPT	0-1	X		
X7-SS600-0102	9/10/2012	2	DPT	1-2	X		
X7-SS600-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS600-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS601-0001	9/10/2012	2	DPT	0-1	X		
X7-SS601-0102	9/10/2012	2	DPT	1-2	X		
X7-SB601-0203	9/10/2012	2	DPT	2-3	X		
X7-SB601-0304	9/10/2012	2	DPT	3-4	X		
X7-SS602-0001	9/10/2012	2	DPT	0-1	X		
X7-SS602-0102	9/10/2012	2	DPT	1-2	X		
X7-SB602-0203	9/10/2012	2	DPT	2-3	X		
X7-SB602-0304	9/10/2012	2	DPT	3-4	X		
X7-SS603-0001	9/10/2012	2	DPT	0-1	X		
X7-SS603-0102	9/10/2012	2	DPT	1-2	X		
X7-SB603-0203	9/10/2012	2	DPT	2-3	X		
X7-SB603-0304	9/10/2012	2	DPT	3-4	X		
X7-SB603-0405	9/11/2012	2	DPT	4-5	X		
X7-SB603-0506	9/11/2012	2	DPT	5-6	X		
X7-SS604-0001	9/10/2012	2	DPT	0-1	X		
X7-SS604-0102	9/10/2012	2	DPT	1-2	X		
X7-SB604-0203	9/10/2012	2	DPT	2-3	X		
X7-SB604-0304	9/10/2012	2	DPT	3-4	X		
X7-SS605-0001	9/10/2012	2	DPT	0-1	X		
X7-SS605-0102	9/10/2012	2	DPT	1-2	X		
X7-SB605-0203	9/10/2012	2	DPT	2-3	X		
X7-SB605-0304	9/10/2012	2	DPT	3-4	X		
X7-SS606-0001	9/10/2012	2	DPT	0-1	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS606-0102	9/10/2012	2	DPT	1-2	X		
X7-SS606-0203	9/10/2012	2	DPT	2-3	NA		
X7-SS606-0304	9/10/2012	2	DPT	3-4	NA		
X7-SS610-0001	9/11/2012	2	DPT	0-1	X		
X7-SS610-0102	9/11/2012	2	DPT	1-2	X		
X7-SB610-0203	9/11/2012	2	DPT	2-3	X		
X7-SB610-0304	9/11/2012	2	DPT	3-4	NA		
X7-SS611-0001	9/11/2012	2	DPT	0-1	X		
X7-SS611-0102	9/11/2012	2	DPT	1-2	X		
X7-SB611-0203	9/11/2012	2	DPT	2-3	X	X	
X7-SB611-0304	9/11/2012	2	DPT	3-4	X		
X7-SB611-0405	9/11/2012	2	DPT	4-5	X		
X7-SS612-0001	9/11/2012	2	DPT	0-1	X		
X7-SS612-0102	9/11/2012	2	DPT	1-2	X		
X7-SB612-0203	9/11/2012	2	DPT	2-3	X		
X7-SB612-0304	9/11/2012	2	DPT	3-4	X		
X7-SS613-0001	9/11/2012	2	DPT	0-1	X		
X7-SS613-0102	9/11/2012	2	DPT	1-2	X		
X7-SB613-0203	9/11/2012	2	DPT	2-3	X		
X7-SB613-0304	9/11/2012	2	DPT	3-4	X		
X7-SS614-0001	9/11/2012	2	DPT	0-1	X		
X7-SS614-0102	9/11/2012	2	DPT	1-2	X		
X7-SS614-0203	9/11/2012	2	DPT	2-3	NA		
X7-SS614-0304	9/11/2012	2	DPT	3-4	NA		
X7-SS615-0001	9/11/2012	2	DPT	0-1	X		
X7-SS615-0102	9/11/2012	2	DPT	1-2	X		
X7-SB615-0203	9/11/2012	2	DPT	2-3	X		
X7-SB615-0304	9/11/2012	2	DPT	3-4	X	X	
X7-SS616-0001	9/11/2012	2	DPT	0-1	X		
X7-SS616-0102	9/11/2012	2	DPT	1-2	X		
X7-SB616-0203	9/11/2012	2	DPT	2-3	X		
X7-SB616-0304	9/11/2012	2	DPT	3-4	X		
X7-SS617-0001	9/11/2012	2	DPT	0-1	X		
X7-SS617-0102	9/11/2012	2	DPT	1-2	X		
X7-SS617-0203	9/11/2012	2	DPT	2-3	NA		
X7-SS617-0304	9/11/2012	2	DPT	3-4	NA		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS618-0001	9/11/2012	2	DPT	0-1	X		
X7-SS618-0102	9/11/2012	2	DPT	1-2	X		
X7-SS618-0203	9/11/2012	2	DPT	2-3	X		
X7-SS618-0304	9/11/2012	2	DPT	3-4	NA		
X7-SS619-0001	9/11/2012	2	DPT	0-1	X		
X7-SS619-0102	9/11/2012	2	DPT	1-2	X		
X7-SB619-0203	9/11/2012	2	DPT	2-3	X		
X7-SB619-0304	9/11/2012	2	DPT	3-4	X		
X7-SB619-0405	9/11/2012	2	DPT	4-5	X		
X7-SB619-0506	9/11/2012	2	DPT	5-6	X		
X7-SS620-0001	9/11/2012	2	DPT	0-1	X		
X7-SS620-0102	9/11/2012	2	DPT	1-2	X		
X7-SB620-0203	9/11/2012	2	DPT	2-3	X	X	
X7-SB620-0304	9/11/2012	2	DPT	3-4	X		
X7-SS621-0001	9/11/2012	2	DPT	0-1	X		
X7-SS621-0102	9/11/2012	2	DPT	1-2	X	X	
X7-SB621-0203	9/11/2012	2	DPT	2-3	X		
X7-SB621-0304	9/11/2012	2	DPT	3-4	X		
X7-SS622-0001	9/11/2012	2	DPT	0-1	X		
X7-SS622-0102	9/11/2012	2	DPT	1-2	X		
X7-SB622-0203	9/11/2012	2	DPT	2-3	X		
X7-SB622-0304	9/11/2012	2	DPT	3-4	X		
X7-SS623-0001	9/11/2012	2	DPT	0-1	X		
X7-SS623-0102	9/11/2012	2	DPT	1-2	X		
X7-SS623-0203	9/11/2012	2	DPT	2-3	NA		
X7-SS623-0304	9/11/2012	2	DPT	3-4	NA		
X7-SS624-0001	9/11/2012	2	DPT	0-1	X	X	
X7-SS624-0102	9/11/2012	2	DPT	1-2	X		
X7-SB624-0203	9/11/2012	2	DPT	2-3	X		
X7-SB624-0304	9/11/2012	2	DPT	3-4	X		
X7-SB624-0405	10/3/2012	2	DPT	4-5	X		
X7-SB624-0506	10/3/2012	2	DPT	5-6	X		
X7-SB624-0607	10/3/2012	2	DPT	6-7	X		
X7-SB624-0708	10/3/2012	2	DPT	7-8	X		
X7-SS625-0001	9/11/2012	2	DPT	0-1	X		
X7-SS625-0102	9/11/2012	2	DPT	1-2	X		

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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB625-0203	9/11/2012	2	DPT	2-3	X		
X7-SB625-0304	9/11/2012	2	DPT	3-4	X		
X7-SB625-0405	10/3/2012	2	DPT	4-5	X		
X7-SB625-0506	10/3/2012	2	DPT	5-6	X		
X7-SB625-0607	10/3/2012	2	DPT	6-7	X		
X7-SB625-0708	10/3/2012	2	DPT	7-8	NA		
X7-SS626-0001	9/11/2012	2	DPT	0-1	X	X	
X7-SS626-0102	9/11/2012	2	DPT	1-2	X		
X7-SB626-0203	9/11/2012	2	DPT	2-3	X		
X7-SB626-0304	9/11/2012	2	DPT	3-4	X		
X7-SS627-0001	9/11/2012	2	DPT	0-1	X		
X7-SS627-0102	9/11/2012	2	DPT	1-2	X	X	
X7-SB627-0203	9/11/2012	2	DPT	2-3	X		
X7-SB627-0304	9/11/2012	2	DPT	3-4	X		
X7-SS628-0001	9/11/2012	2	DPT	0-1	X		
X7-SS628-0102	9/11/2012	2	DPT	1-2	X		
X7-SS628-0203	9/11/2012	2	DPT	2-3	NA		
X7-SS628-0304	9/11/2012	2	DPT	3-4	NA		
X7-SS629-0001	10/3/2012	2	DPT	0-1	X		
X7-SS629-0102	10/3/2012	2	DPT	1-2	X		
X7-SB629-0203	10/3/2012	2	DPT	2-3	X		
X7-SB629-0304	10/3/2012	2	DPT	3-4	X		
X7-SB629-0405	10/6/2012	2	DPT	4-5	X		
X7-SB629-0506	10/6/2012	2	DPT	5-6	X		
X7-SS630-0001	10/3/2012	2	DPT	0-1	X		
X7-SS630-0102	10/3/2012	2	DPT	1-2	X		
X7-SB630-0203	10/3/2012	2	DPT	2-3	X		
X7-SB630-0304	10/3/2012	2	DPT	3-4	X		
X7-SS631-0001	10/3/2012	2	DPT	0-1	X		
X7-SS631-0102	10/3/2012	2	DPT	1-2	X		
X7-SB631-0203	10/3/2012	2	DPT	2-3	X		
X7-SS632-0001	10/3/2012	2	DPT	0-1	X		
X7-SS632-0102	10/3/2012	2	DPT	1-2	X		
X7-SB632-0203	10/3/2012	2	DPT	2-3	X		
X7-SB632-0304	10/3/2012	2	DPT	3-4	X		
X7-SB632-0405	10/3/2012	2	DPT	4-5	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB632-0506	10/3/2012	2	DPT	5-6	X		
X7-SS633-0001	10/3/2012	2	DPT	0-1	X		
X7-SS633-0102	10/3/2012	2	DPT	1-2	X		
X7-SB633-0203	10/3/2012	2	DPT	2-3	X		
X7-SB633-0304	10/3/2012	2	DPT	3-4	X		
X7-SS634-0001	10/3/2012	2	DPT	0-1	X		
X7-SS634-0102	10/3/2012	2	DPT	1-2	X		
X7-SB634-0203	10/3/2012	2	DPT	2-3	X		
X7-SB634-0304	10/3/2012	2	DPT	3-4	X		
X7-SS635-0001	10/3/2012	2	DPT	0-1	X		
X7-SS635-0102	10/3/2012	2	DPT	1-2	X		
X7-SB635-0203	10/3/2012	2	DPT	2-3	X		
X7-SB635-0304	10/3/2012	2	DPT	3-4	X		
X7-SB635-0405	10/3/2012	2	DPT	4-5	X		
X7-SB635-0506	10/3/2012	2	DPT	5-6	X		
X7-SS636-0001	10/3/2012	2	DPT	0-1	X		
X7-SS636-0102	10/3/2012	2	DPT	1-2	X		
X7-SB636-0203	10/3/2012	2	DPT	2-3	X		
X7-SB636-0304	10/3/2012	2	DPT	3-4	X		
X7-SS637-0001	10/3/2012	2	DPT	0-1	X		
X7-SS637-0102	10/3/2012	2	DPT	1-2	X		
X7-SB637-0203	10/3/2012	2	DPT	2-3	X		
X7-SB637-0304	10/3/2012	2	DPT	3-4	X		
X7-SB637-0405	10/6/2012	2	DPT	4-5	X		
X7-SB637-0506	10/6/2012	2	DPT	5-6	X		
X7-SS638-0001	10/3/2012	2	DPT	0-1	X		
X7-SS638-0102	10/3/2012	2	DPT	1-2	X		
X7-SB638-0203	10/3/2012	2	DPT	2-3	X		
X7-SB638-0304	10/3/2012	2	DPT	3-4	X		
X7-SB638-0405	10/6/2012	2	DPT	4-5	X	X	
X7-SB638-0506	10/6/2012	2	DPT	5-6	X		
X7-SS639-0001	10/3/2012	2	DPT	0-1	X		
X7-SS639-0102	10/3/2012	2	DPT	1-2	X		
X7-SB639-0203	10/3/2012	2	DPT	2-3	X		
X7-SB639-0304	10/3/2012	2	DPT	3-4	X		
X7-SS640-0001	10/3/2012	2	DPT	0-1	X		

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SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
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SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS640-0102	10/3/2012	2	DPT	1-2	X		
X7-SB640-0203	10/3/2012	2	DPT	2-3	X		
X7-SB640-0304	10/3/2012	2	DPT	3-4	X		
X7-SS641-0001	10/3/2012	2	DPT	0-1	X		
X7-SS641-0102	10/3/2012	2	DPT	1-2	X		
X7-SB641-0203	10/3/2012	2	DPT	2-3	X		
X7-SB641-0304	10/3/2012	2	DPT	3-4	X		
X7-SS642-0001	10/3/2012	2	DPT	0-1	X		
X7-SS642-0102	10/3/2012	2	DPT	1-2	X		
X7-SB642-0203	10/3/2012	2	DPT	2-3	X		
X7-SB642-0304	10/3/2012	2	DPT	3-4	X		
X7-SS643-0001	10/3/2012	2	DPT	0-1	X	X	
X7-SS643-0102	10/3/2012	2	DPT	1-2	X		
X7-SB643-0203	10/3/2012	2	DPT	2-3	X		
X7-SB643-0304	10/3/2012	2	DPT	3-4	X		
X7-SS644-0001	10/3/2012	2	DPT	0-1	X		
X7-SS644-0102	10/3/2012	2	DPT	1-2	X		
X7-SB644-0203	10/3/2012	2	DPT	2-3	X		
X7-SB644-0304	10/3/2012	2	DPT	3-4	X		
X7-SS645-0001	10/3/2012	2	DPT	0-1	X		
X7-SS645-0102	10/3/2012	2	DPT	1-2	X		
X7-SB645-0203	10/3/2012	2	DPT	2-3	X		
X7-SB645-0304	10/3/2012	2	DPT	3-4	X		
X7-SS646-0001	10/3/2012	2	DPT	0-1	X		
X7-SS646-0102	10/3/2012	2	DPT	1-2	X	X	
X7-SB646-0203	10/3/2012	2	DPT	2-3	X		
X7-SB646-0304	10/3/2012	2	DPT	3-4	X		
X7-SS647-0001	10/3/2012	2	DPT	0-1	X		
X7-SS647-0102	10/3/2012	2	DPT	1-2	X		
X7-SB647-0203	10/3/2012	2	DPT	2-3	X		
X7-SB647-0304	10/3/2012	2	DPT	3-4	X		
X7-SS648-0001	10/3/2012	2	DPT	0-1	X		
X7-SS648-0102	10/3/2012	2	DPT	1-2	X		
X7-SB648-0203	10/3/2012	2	DPT	2-3	X		
X7-SB648-0304	10/3/2012	2	DPT	3-4	X		
X7-SS649-0001	10/3/2012	2	DPT	0-1	X		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS649-0102	10/3/2012	2	DPT	1-2	X		
X7-SB649-0203	10/3/2012	2	DPT	2-3	X		
X7-SB649-0304	10/3/2012	2	DPT	3-4	X		
X7-SS650-0001	10/3/2012	2	DPT	0-1	X		
X7-SS650-0102	10/3/2012	2	DPT	1-2	X		
X7-SB650-0203	10/3/2012	2	DPT	2-3	X		
X7-SB650-0304	10/3/2012	2	DPT	3-4	NA		
X7-SS651-0001	10/3/2012	2	DPT	0-1	X		
X7-SS651-0102	10/3/2012	2	DPT	1-2	X	X	
X7-SB651-0203	10/3/2012	2	DPT	2-3	X		
X7-SB651-0304	10/3/2012	2	DPT	3-4	X		
X7-SS652-0001	10/3/2012	2	DPT	0-1	X	X	
X7-SS652-0102	10/3/2012	2	DPT	1-2	X		
X7-SB652-0203	10/3/2012	2	DPT	2-3	X		
X7-SB652-0304	10/3/2012	2	DPT	3-4	NA		
X7-SS653-0001	10/3/2012	2	DPT	0-1	X		
X7-SS653-0102	10/3/2012	2	DPT	1-2	X		
X7-SB653-0203	10/3/2012	2	DPT	2-3	X		
X7-SB653-0304	10/3/2012	2	DPT	3-4	X		
X7-SS654-0001	10/3/2012	2	DPT	0-1	X		
X7-SS654-0102	10/3/2012	2	DPT	1-2	X		
X7-SB654-0203	10/3/2012	2	DPT	2-3	X		
X7-SB654-0304	10/3/2012	2	DPT	3-4	X		
X7-SS655-0001	10/3/2012	2	DPT	0-1	X		
X7-SS655-0102	10/3/2012	2	DPT	1-2	X		
X7-SB655-0203	10/3/2012	2	DPT	2-3	X		
X7-SB655-0304	10/3/2012	2	DPT	3-4	X		
X7-SS656-0001	10/3/2012	2	DPT	0-1	X	X	
X7-SS656-0102	10/3/2012	2	DPT	1-2	X	X	
X7-SB656-0203	10/3/2012	2	DPT	2-3	X		
X7-SB656-0304	10/3/2012	2	DPT	3-4	X		
X7-SS657-0001	10/3/2012	2	DPT	0-1	X		
X7-SS657-0102	10/3/2012	2	DPT	1-2	X		
X7-SB657-0203	10/3/2012	2	DPT	2-3	X		
X7-SB657-0304	10/3/2012	2	DPT	3-4	X		
X7-SB657-0405	10/6/2012	2	DPT	4-5	X		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB657-0506	10/6/2012	2	DPT	5-6	X		
X7-SS658-0001	10/3/2012	2	DPT	0-1	X		
X7-SS658-0102	10/3/2012	2	DPT	1-2	X		
X7-SB658-0203	10/3/2012	2	DPT	2-3	X		
X7-SB658-0304	10/3/2012	2	DPT	3-4	X		
X7-SS659-0001	10/3/2012	2	DPT	0-1	X	X	
X7-SS659-0102	10/3/2012	2	DPT	1-2	X		
X7-SB659-0203	10/3/2012	2	DPT	2-3	X		
X7-SB659-0304	10/3/2012	2	DPT	3-4	NA		
X7-SS660-0001	10/3/2012	2	DPT	0-1	X		
X7-SS660-0102	10/3/2012	2	DPT	1-2	X		
X7-SB660-0203	10/3/2012	2	DPT	2-3	X		
X7-SB660-0304	10/3/2012	2	DPT	3-4	X		
X7-SS661-0001	10/3/2012	2	DPT	0-1	X	X	
X7-SS661-0102	10/3/2012	2	DPT	1-2	X		
X7-SB661-0203	10/3/2012	2	DPT	2-3	X		
X7-SB661-0304	10/3/2012	2	DPT	3-4	NA		
X7-SS662-0001	10/3/2012	2	DPT	0-1	X	X	
X7-SS662-0102	10/3/2012	2	DPT	1-2	X		
X7-SB662-0203	10/3/2012	2	DPT	2-3	X		
X7-SB662-0304	10/3/2012	2	DPT	3-4	NA		
X7-SS663-0001	10/3/2012	2	DPT	0-1	X		
X7-SS663-0102	10/3/2012	2	DPT	1-2	X		
X7-SB663-0203	10/3/2012	2	DPT	2-3	X		
X7-SB663-0304	10/3/2012	2	DPT	3-4	NA		
X7-SS664-0001	10/4/2012	2	DPT	0-1	X		
X7-SS664-0102	10/4/2012	2	DPT	1-2	X		
X7-SB664-0203	10/4/2012	2	DPT	2-3	NA		
X7-SB664-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS665-0001	10/4/2012	2	DPT	0-1	X		
X7-SS665-0102	10/4/2012	2	DPT	1-2	X		
X7-SB665-0203	10/4/2012	2	DPT	2-3	NA		
X7-SB665-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS666-0001	10/4/2012	2	DPT	0-1	X		
X7-SS666-0102	10/4/2012	2	DPT	1-2	X		
X7-SB666-0203	10/4/2012	2	DPT	2-3	NA		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB666-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS667-0001	10/4/2012	2	DPT	0-1	X		
X7-SS667-0102	10/4/2012	2	DPT	1-2	X		
X7-SB667-0203	10/4/2012	2	DPT	2-3	X		
X7-SB667-0304	10/4/2012	2	DPT	3-4	X		
X7-SS668-0001	10/4/2012	2	DPT	0-1	X	X	
X7-SS668-0102	10/4/2012	2	DPT	1-2	X	X	
X7-SB668-0203	10/4/2012	2	DPT	2-3	X		
X7-SB668-0304	10/4/2012	2	DPT	3-4	X		
X7-SS669-0001	10/4/2012	2	DPT	0-1	X		
X7-SS669-0102	10/4/2012	2	DPT	1-2	X		
X7-SB669-0203	10/4/2012	2	DPT	2-3	X		
X7-SB669-0304	10/4/2012	2	DPT	3-4	X		
X7-SS670-0001	10/4/2012	2	DPT	0-1	X		
X7-SS670-0102	10/4/2012	2	DPT	1-2	X		
X7-SB670-0203	10/4/2012	2	DPT	2-3	X		
X7-SB670-0304	10/4/2012	2	DPT	3-4	X		
X7-SS671-0001	10/4/2012	2	DPT	0-1	X		
X7-SS671-0102	10/4/2012	2	DPT	1-2	X		
X7-SB671-0203	10/4/2012	2	DPT	2-3	X		
X7-SB671-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS672-0001	10/4/2012	2	DPT	0-1	X		
X7-SS672-0102	10/4/2012	2	DPT	1-2	X		
X7-SB672-0203	10/4/2012	2	DPT	2-3	X		
X7-SB672-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS673-0001	10/4/2012	2	DPT	0-1	X		
X7-SS673-0102	10/4/2012	2	DPT	1-2	X		
X7-SB673-0203	10/4/2012	2	DPT	2-3	X		
X7-SB673-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS674-0001	10/4/2012	2	DPT	0-1	X		
X7-SS674-0102	10/4/2012	2	DPT	1-2	X		
X7-SB674-0203	10/4/2012	2	DPT	2-3	X		
X7-SB674-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS675-0001	10/4/2012	2	DPT	0-1	X		
X7-SS675-0102	10/4/2012	2	DPT	1-2	X		
X7-SB675-0203	10/4/2012	2	DPT	2-3	X		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB675-0304	10/4/2012	2	DPT	3-4	X		
X7-SS676-0001	10/4/2012	2	DPT	0-1	X		
X7-SS676-0102	10/4/2012	2	DPT	1-2	X		
X7-SB676-0203	10/4/2012	2	DPT	2-3	X		
X7-SB676-0304	10/4/2012	2	DPT	3-4	X		
X7-SS677-0001	10/4/2012	2	DPT	0-1	X		
X7-SS677-0102	10/4/2012	2	DPT	1-2	X		
X7-SB677-0203	10/4/2012	2	DPT	2-3	X		
X7-SB677-0304	10/4/2012	2	DPT	3-4	X		
X7-SS678-0001	10/4/2012	2	DPT	0-1	X		
X7-SS678-0102	10/4/2012	2	DPT	1-2	X		
X7-SB678-0203	10/4/2012	2	DPT	2-3	X		
X7-SB678-0304	10/4/2012	2	DPT	3-4	X		
X7-SS679-0001	10/6/2012	2	DPT	0-1	X		
X7-SS679-0102	10/6/2012	2	DPT	1-2	X		
X7-SB679-0203	10/6/2012	2	DPT	2-3	X		
X7-SB679-0304	10/6/2012	2	DPT	3-4	X		
X7-SS680-0001	10/6/2012	2	DPT	0-1	X	X	
X7-SS680-0102	10/6/2012	2	DPT	1-2	X	X	
X7-SB680-0203	10/6/2012	2	DPT	2-3	X		
X7-SB680-0304	10/6/2012	2	DPT	3-4	X		
X7-SS681-0001	10/6/2012	2	DPT	0-1	X	X	
X7-SS681-0102	10/6/2012	2	DPT	1-2	X		
X7-SB681-0203	10/6/2012	2	DPT	2-3	X		
X7-SB681-0304	10/6/2012	2	DPT	3-4	NA		
X7-SS682-0001	10/6/2012	2	DPT	0-1	X	X	
X7-SS682-0102	10/6/2012	2	DPT	1-2	X		
X7-SB682-0203	10/6/2012	2	DPT	2-3	X		
X7-SB682-0304	10/6/2012	2	DPT	3-4	NA		
X7-SS683-0001	10/6/2012	2	DPT	0-1	X		
X7-SS683-0102	10/6/2012	2	DPT	1-2	X		
X7-SB683-0203	10/6/2012	2	DPT	2-3	NA		
X7-SB683-0304	10/6/2012	2	DPT	3-4	NA		
X7-SS684-0001	10/4/2012	2	DPT	0-1	X		
X7-SS684-0102	10/4/2012	2	DPT	1-2	X		
X7-SB684-0203	10/4/2012	2	DPT	2-3	NA		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB684-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS685-0001	10/4/2012	2	DPT	0-1	X		
X7-SS685-0102	10/4/2012	2	DPT	1-2	X		
X7-SB685-0203	10/4/2012	2	DPT	2-3	NA		
X7-SB685-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS686-0001	10/4/2012	2	DPT	0-1	X		
X7-SS686-0102	10/4/2012	2	DPT	1-2	X		
X7-SB686-0203	10/4/2012	2	DPT	2-3	X		
X7-SB686-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS687-0001	10/4/2012	2	DPT	0-1	X	X	
X7-SS687-0102	10/4/2012	2	DPT	1-2	X		
X7-SB687-0203	10/4/2012	2	DPT	2-3	X		
X7-SB687-0304	10/4/2012	2	DPT	3-4	NA		
X7-SS688-0001	10/8/2012	2	DPT	0-1	X		
X7-SS688-0102	10/8/2012	2	DPT	1-2	X		
X7-SB688-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB688-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS689-0001	10/8/2012	2	DPT	0-1	X		
X7-SS689-0102	10/8/2012	2	DPT	1-2	X		
X7-SB689-0203	10/8/2012	2	DPT	2-3	X		
X7-SB689-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS690-0001	10/8/2012	2	DPT	0-1	X		
X7-SS690-0102	10/8/2012	2	DPT	1-2	X		
X7-SB690-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB690-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS691-0001	10/8/2012	2	DPT	0-1	X		
X7-SS691-0102	10/8/2012	2	DPT	1-2	X		
X7-SB691-0203	10/8/2012	2	DPT	2-3	X	X	
X7-SB691-0304	10/8/2012	2	DPT	3-4	X		
X7-SS692-0001	10/8/2012	2	DPT	0-1	X		
X7-SS692-0102	10/8/2012	2	DPT	1-2	X		
X7-SB692-0203	10/8/2012	2	DPT	2-3	X		
X7-SB692-0304	10/8/2012	2	DPT	3-4	X		
X7-SS693-0001	10/8/2012	2	DPT	0-1	X		
X7-SS693-0102	10/8/2012	2	DPT	1-2	X		
X7-SB693-0203	10/8/2012	2	DPT	2-3	NA		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB693-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS694-0001	10/8/2012	2	DPT	0-1	X	X	
X7-SS694-0102	10/8/2012	2	DPT	1-2	X		
X7-SB694-0203	10/8/2012	2	DPT	2-3	X		
X7-SB694-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS695-0001	10/8/2012	2	DPT	0-1	X		
X7-SS695-0102	10/8/2012	2	DPT	1-2	X		
X7-SB695-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB695-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS696-0001	10/8/2012	2	DPT	0-1	X		
X7-SS696-0102	10/8/2012	2	DPT	1-2	X		
X7-SB696-0203	10/8/2012	2	DPT	2-3	X	X	
X7-SB696-0304	10/8/2012	2	DPT	3-4	X		
X7-SS697-0001	10/8/2012	2	DPT	0-1	X		
X7-SS697-0102	10/8/2012	2	DPT	1-2	X		
X7-SB697-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB697-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS698-0001	10/8/2012	2	DPT	0-1	X		
X7-SS698-0102	10/8/2012	2	DPT	1-2	X		
X7-SB698-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB698-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS699-0001	10/8/2012	2	DPT	0-1	X		
X7-SS699-0102	10/8/2012	2	DPT	1-2	X		
X7-SB699-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB699-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS700-0001	10/8/2012	2	DPT	0-1	X		
X7-SS700-0102	10/8/2012	2	DPT	1-2	X		
X7-SB700-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB700-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS701-0001	10/8/2012	2	DPT	0-1	X		
X7-SS701-0102	10/8/2012	2	DPT	1-2	X		
X7-SB701-0203	10/8/2012	2	DPT	2-3	X		
X7-SB701-0304	10/8/2012	2	DPT	3-4	X		
X7-SS702-0001	10/8/2012	2	DPT	0-1	X		
X7-SS702-0102	10/8/2012	2	DPT	1-2	X		
X7-SB702-0203	10/8/2012	2	DPT	2-3	NA		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB702-0304	10/8/2012	2	DPT	3-4	NA		
X7-SS703-0001	10/8/2012	2	DPT	0-1	X		
X7-SS703-0102	10/8/2012	2	DPT	1-2	X		
X7-SB703-0203	10/8/2012	2	DPT	2-3	NA		
X7-SB703-0304	10/8/2012	2	DPT	3-4	NA		
Southernmost Area of Northern Zone - Dirt Mound (Figure 2-5)							
X7-SS038-0002	10/3/2007	RFI-2007	HA	0-2	X		
X7-SB038-0203	9/8/2012	2	DPT	2-3	X		
X7-SB038-0304	9/8/2012	2	DPT	3-4	X		
X7-SS039-0002	10/3/2007	RFI-2007	HA	0-2	X	X	
X7-SB039-0203	9/8/2012	2	DPT	2-3	X	X	
X7-SB039-0304	9/8/2012	2	DPT	3-4	X		
X7-SS040-0002	10/3/2007	RFI-2007	HA	0-2	X		
X7-SS041-0002	10/3/2007	RFI-2007	HA	0-2	X		
X7-SS042-0002	10/3/2007	RFI-2007	HA	0-2	X		
X7-SS184-0002	10/7/2007	RFI-2007	HA	0-2	X	X	
X7-SS309-0001	11/7/2011	1	HA	0-1	X		
X7-SS310-0001	11/7/2011	1	HA	0-1	X		
X7-SS310-0102	11/7/2011	1	HA	1-2	X	X	
X7-SB310-0203	11/12/2011	1	HA	2-3	X	X	
X7-SB310-0304	9/8/2012	2	DPT	3-4	X		
X7-SB310-0405	9/8/2012	2	DPT	4-5	X	X	
X7-SS311-0001	11/7/2011	1	HA	0-1	X		
X7-SS312-0001	11/7/2011	1	HA	0-1	X		
X7-SS312-0102	11/7/2011	1	HA	1-2	X	X	
X7-SS312-0203	9/8/2012	2	DPT	2-3	X		
X7-SS312-0304	9/8/2012	2	DPT	3-4	X		
X7-SS313-0001	11/7/2011	1	HA	0-1	X	X	
X7-SS313-0102	11/7/2011	1	HA	1-2	X		
X7-SB313-0203	11/12/2011	1	HA	2-3	X		
X7-SB313-0304	9/8/2012	2	DPT	3-4	X		
X7-SB313-0405	9/8/2012	2	DPT	4-5	X		
X7-SS314-0001	11/7/2011	1	HA	0-1	X		
X7-SS314-0102	11/7/2011	1	HA	1-2	X		
X7-SS315-0001	11/7/2011	1	HA	0-1	X	X	
X7-SS315-0102	11/7/2011	1	HA	1-2	X		

TABLE 2-1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SS316-0001	11/7/2011	1	HA	0-1	X		
X7-SS316-0102	11/7/2011	1	HA	1-2	X		
X7-SS317-0001	11/7/2011	1	HA	0-1	X		
X7-SS318-0001	11/7/2011	1	HA	0-1	X		
X7-SS319-0001	11/7/2011	1	HA	0-1	X		
X7-SS320-0001	11/7/2011	1	HA	0-1	X		
X7-SS320-0102	11/7/2011	1	HA	1-2	X		
X7-SB320-0203	11/12/2011	1	HA	2-3	X		
X7-SS371-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS371-0102	9/8/2012	2	DPT	1-2	X	X	
X7-SB371-0203	9/8/2012	2	DPT	2-3	X		
X7-SS373-0001	11/12/2011	1	HA	0-1	X		
X7-SS376-0001	11/12/2011	1	HA	0-1	X		
X7-SS376-0102	11/12/2011	1	HA	1-2	X	X	
X7-SS377-0001	11/12/2011	1	HA	0-1	X		
X7-SS377-0102	11/12/2011	1	HA	1-2	X	X	
X7-SS379-0001	11/12/2011	1	HA	0-1	X		
X7-SS383-0001	11/12/2011	1	HA	0-1	X		
X7-SS385-0001	11/12/2011	1	HA	0-1	X	X	
X7-SS385-0102	11/12/2011	1	HA	1-2	X		
X7-SS387-0001	11/12/2011	1	HA	0-1	X		
X7-SB430-0304	11/15/2011	1	DPT	3-4	X		
X7-SB430-0405	11/15/2011	1	DPT	4-5	X		
X7-SB430-0506	11/15/2011	1	DPT	5-6	X		
X7-SB431-0304	11/15/2011	1	DPT	3-4	X		
X7-SB431-0405	11/15/2011	1	DPT	4-5	X	X	
X7-SB432-0304	11/15/2011	1	DPT	3-4	X		
X7-SB432-0405	11/15/2011	1	DPT	4-5	X		
X7-SS434-0001	11/15/2011	1	HA	0-1	X	X	
X7-SS434-0102	11/15/2011	1	HA	1-2	X		
X7-SB578-0001	9/8/2012	2	DPT	3-4	X		
X7-SB578-0102	9/8/2012	2	DPT	1-2	X		
X7-SB578-0203	9/8/2012	2	DPT	2-3	NA		
X7-SB578-0304	9/8/2012	2	DPT	3-4	NA		
X7-SB579-0001	9/8/2012	2	DPT	0-1	X		
X7-SB579-0102	9/8/2012	2	DPT	1-2	X		

TABLE 2-1

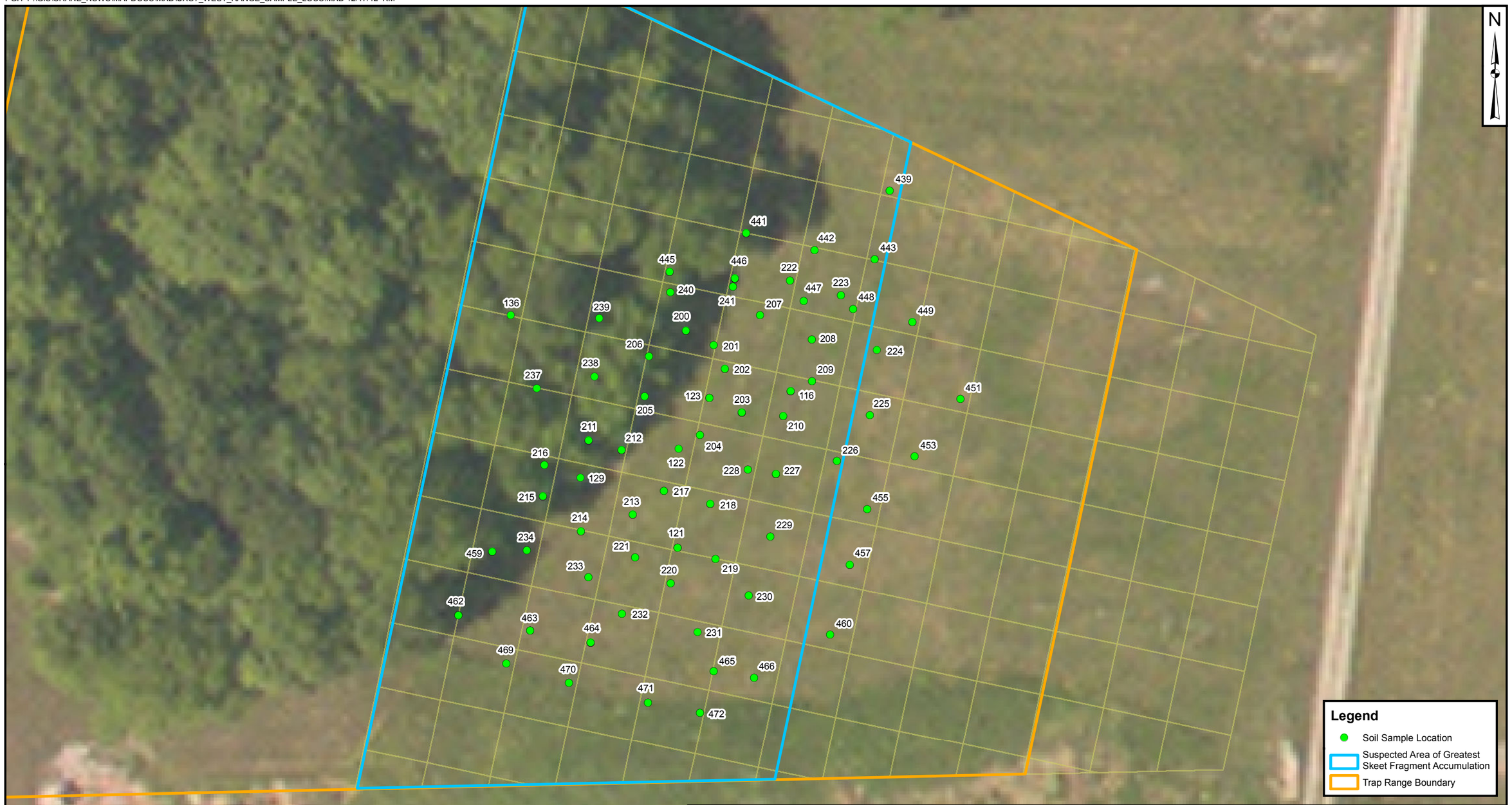
SAMPLE COLLECTION AND ANALYSIS SUMMARY
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE COLLECTION DATE	SAMPLE ROUND	SAMPLE METHOD	SAMPLE DEPTH (ft bgs)	XRF (LEAD)	FBL ANALYSIS	
						LEAD	PAHs
X7-SB579-0203	9/8/2012	2	DPT	2-3	NA		
X7-SB579-0304	9/8/2012	2	DPT	3-4	NA		
X7-SB580-0001	9/8/2012	2	DPT	0-1	X		
X7-SB580-0102	9/8/2012	2	DPT	1-2	X		
X7-SB580-0203	9/8/2012	2	DPT	2-3	NA		

bgs = below ground surface
DPT = Direct-push technology
FBL = Fixed-base laboratory
ft = feet
HA = Hand auger
NA = not analyzed
PAHs = polycyclic hydrocarbons
XRF = X-Ray fluorescence

(1) = Sample proposed, but not collected since not needed for PAH delineation.
(2) = Sample collected, but not analyzed. Not required for delineation.
(3) = Proposed sample not collected due to its close proximity to adjacent location.

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_WEST_RANGE_SAMPLE_LOCS.MXD 12/17/12 KM



DRAWN BY	DATE
K. MOORE	12/17/12
CHECKED BY	DATE
R. BARRINGER	12/17/12
REVISED BY	DATE
—	—
SCALE	
AS NOTED	

NAVFAC

BaP EQUIVALENT DELINEATION
SOIL SAMPLING LOCATIONS
UXO 7 - WEST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
0057	F272
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
FIGURE NO. 2-1	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_EAST_RANGE_SAMPLE_LOCS.MXD 12/17/12 KM

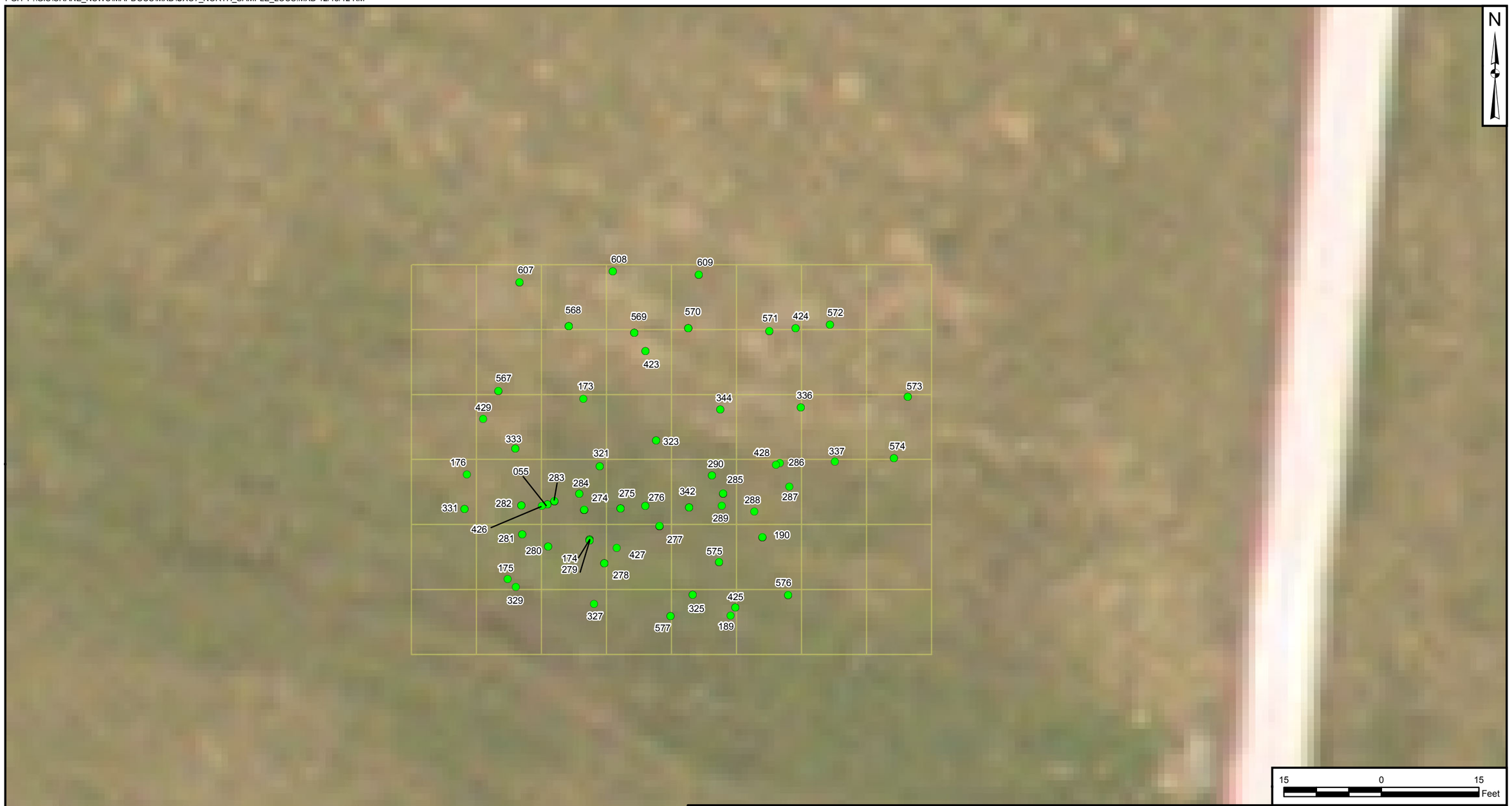
DRAWN BY	DATE
K. MOORE	12/17/12
CHECKED BY	DATE
R. BARRINGER	12/17/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

BaP EQUIVALENT DELINEATION
SOIL SAMPLING LOCATIONS
UXO 7 - EAST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
0057	F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-2	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_NORTH_SAMPLE_LOCS.MXD 12/18/12 KM



Legend

- Soil Sample Location
- 10' x 10' Grid

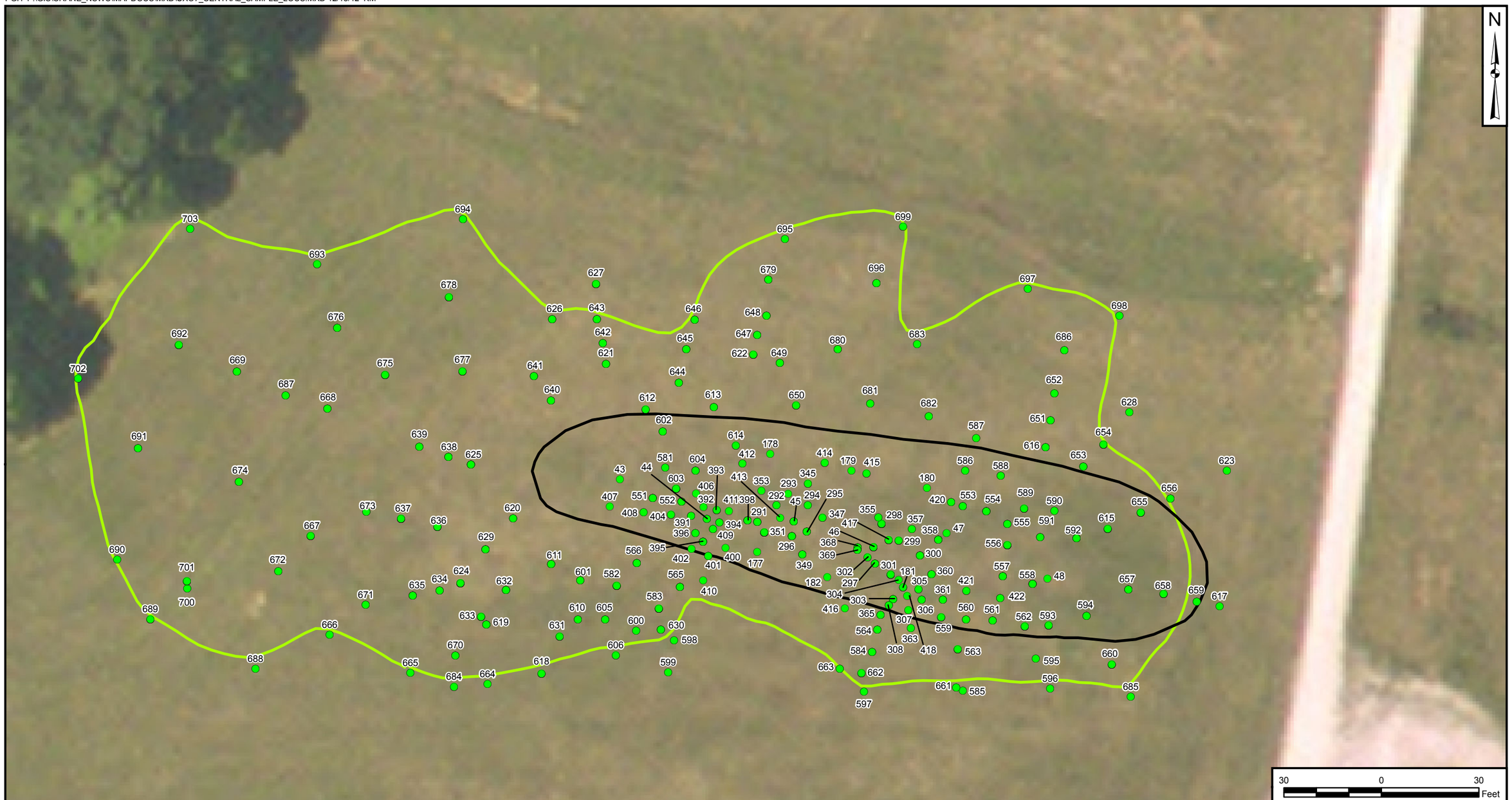
DRAWN BY	DATE
K. MOORE	12/14/12
CHECKED BY	DATE
J. GOERDT	12/18/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

LEAD DELINEATION SOIL SAMPLE LOCATIONS
UXO 7 - NORTHERNMOST AREA OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
1621	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-3	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_CENTRAL_SAMPLE_LOCS.MXD 12/18/12 KM



Legend

- Soil Sample Location
- 400 Yard Firing Position
- Clean Boundary

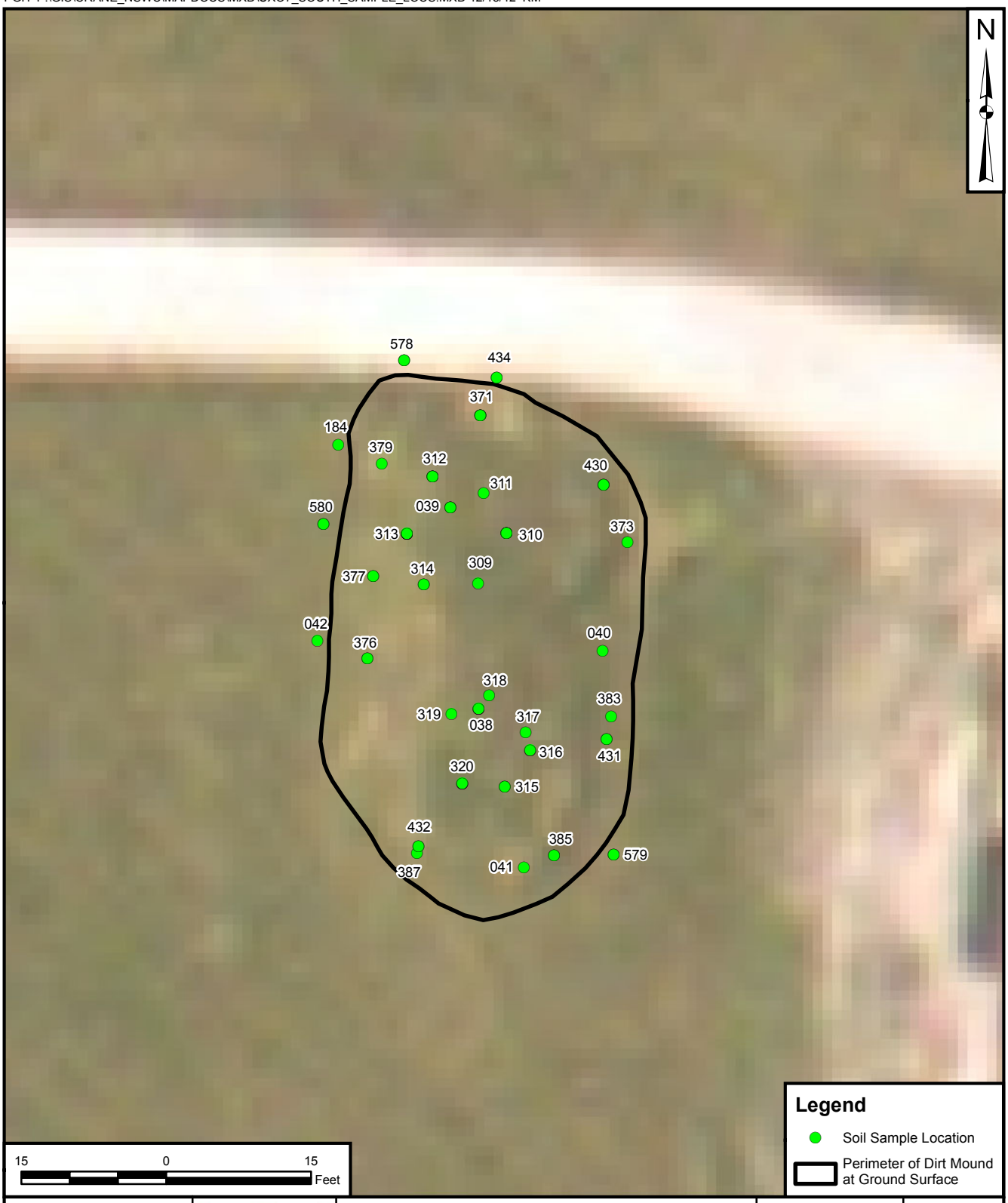
DRAWN BY	DATE
K. MOORE	12/14/12
CHECKED BY	DATE
J. GOERDT	12/18/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

LEAD DELINEATION SOILS SAMPLE LOCATIONS
UXO 7 - CENTRAL AREA OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
	F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-4	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_SOUTH_SAMPLE_LOCS.MXD 12/18/12 KM



DRAWN BY	DATE			CONTRACT NUMBER	CTO NUMBER
K. MOORE	12/14/12		LEAD DELINEATION SOIL SAMPLE LOCATIONS	___	F272
CHECKED BY	DATE		UXO 7 - SOUTHERNMOST AREA	APPROVED BY	DATE
J. GOERDT	12/18/12		OF NORTHERN ZONE	___	___
REVISED BY	DATE		NSA CRANE	APPROVED BY	DATE
___	___		CRANE, INDIANA	___	___
SCALE		NAVFAC		FIGURE NO.	REV
AS NOTED				2-5	0

3.0 PRESENTATION OF ANALYTICAL RESULTS

3.1 PAHS (AS BAP EQUIVALENTS) IN UXO 7 TRAP RANGE SOIL

Both the East and West Trap Ranges inside UXO 7 were initially investigated as part of an RFI in 2007. The source of PAHs detected in soil from the former trap ranges is the tar pitch/bitumen binder materials used in the manufacturing of the clay pigeon targets.

Specific information regarding UXO 7 site history is presented in the UXO 7 RFI Report (Tetra Tech, 2009). During the UXO 7 RFI sampling event, samples were collected and analyzed for both PAHs and metals. Samples collected during the UXO 7 RFI from the former trap range areas and evaluated for PAHs and BaP equivalents were adequate for risk assessments. The analytical results from the RFI indicated an excess human health residential exposure risk from the PAHs. For purposes of designing remedial measures, a more robust sampling program was developed during 2011 to perform supplemental soil sampling at the two former trap ranges in the Central Zone to more clearly delineate and assess the relative exposure risks for PAHs in soil as BaP equivalents. The refined understanding of the distribution and extent of PAHs (as BaP equivalents) within the former trap range soil supports limited removals of specific soil volumes with measured elevated BaP concentrations to reduce potential exposure cancer risk hazards for future residential human receptors to acceptable levels.

Supplemental soil sampling was completed during November 2011 (Sampling Round 1) and September/October 2012 (Rounds 2A and 2B, respectively) to more fully delineate the extent of PAH contamination within the soil of the former trap ranges at UXO 7, and the soil samples were collected in accordance with the SOPs and QA procedures presented in the approved Supplemental Sampling Activities at UXO 7 Ranges (approved October 21, 2011). The area of greatest skeet fragment accumulation on these trap ranges was defined as beginning at a distance of approximately 75 feet from the range firing area and continuing downrange for another 125 feet from that 75-foot line (extending a total distance of approximately 200 feet from the range firing area). The blue trapezoids shown on Figures 2-1 and 2-2 enclose the suspected area of maximum skeet fragment accumulation. The supplemental sampling program focused on defining the nature and extent of PAHs in soil within those areas, but when necessary continued beyond those boundaries to more fully assess the distribution and extent of PAHs (as BaP equivalents) within the former trap ranges soil (Figures 3-1, 3-2, 3-3, and 3-4).

During all of the UXO 7 trap range soil sampling and investigation events (2007 through 2012), PAHs were detected in multiple range soil samples and based on the magnitude of detected concentrations presented excess human health cancer risks to future residential receptors in the Central Zone of UXO 7.

The skeet-derived PAH contamination in the former trap range soil was expected to be confined to the surficial 2-feet of soil. However, the supplemental sampling approach extended down to a depth of 6 feet bgs and was appropriate to provide confirmation of the specific depth intervals where PAH contamination had accumulated in the vertical soil profile. There were isolated instances where the PAH contamination (as BaP equivalents) was present in trap range soil at concentrations above human health risk based screening levels at depths of more than two feet bgs.

Nearly 400 soil samples were collected and shipped to the FBL; however, not all collected samples were analyzed. Only the sample locations and associated sample depths adjacent to former locations exhibiting BaP equivalent contamination were initially authorized for analysis by the FBL as identified on **Table 3-1 and Table 3-2**. The remaining collected samples were processed and extracted by the FBL, but were only approved for analysis when authorized by Tetra Tech to fill data gaps on nature and extent of BaP equivalent contamination. A total of approximately 300 soil samples were eventually approved for analysis (inclusive of RFI PAH samples and supplemental rounds) for the West and East Trap Ranges and are summarized on **Table 3-1 and Table 3-2** and presented on **Figure 2-1 and Figure 2-2,** respectively.

3.2 LEAD IN UXO 7 RIFLE RANGE SOIL

The Northernmost, Central, and Southernmost Areas within the Northern Zone of the Rifle Range at UXO 7 were initially investigated as part of an RFI in 2007. The source of lead contamination detected in soil from these areas is a result of lead bullets fired at the range.

Specific information regarding UXO 7 site history is presented in the UXO 7 RFI Report (Tetra Tech, 2009). During the UXO 7 RFI sampling event, samples were collected and analyzed for lead in various areas of the Rifle Range. Samples collected during the UXO 7 RFI from the Rifle Range areas and evaluated for lead were adequate for risk assessments, and the analytical results from the RFI indicated an excess human health residential exposure risk from the lead. Additionally, The USEPA and the Navy agreed upon a preliminary remediation goal (PRG) concentration of 192 mg/kg as an acceptable ecological benchmark to be applied as a site-wide arithmetic average soil lead concentration for UXO 7. A sample-specific lead concentration of 621 mg/kg was also agreed upon indicating all surface soil samples with a lead concentration greater than 621 mg/kg would be removed. Based on this information, lead concentrations greater than the Navy/EPA agreed upon average concentration of 192 mg/kg and the sample-specific lead concentration of 621 mg/kg in the surface soil (defined as ground surface to two feet below ground surface [bgs]) remain in the Northern Zone of UXO 7. Specifically, these areas include the Northernmost Area (small area located between the 400- and 500-yard firing berms), Central Area

(400-yard firing berm), and the Southernmost Area (dirt mound). Lead concentrations in deeper soil (greater than two feet bgs) are not regarded as biologically available to ecological receptors, but could serve as potential exposure sources to future human receptors for construction workers, etc.

For purposes of designing remedial measures a more robust sampling program was developed during 2011 to perform supplemental soil sampling at the three areas within the Northern Zone of UXO 7 to more clearly delineate and assess the relative exposure risks for lead in soil. These areas include the Northernmost Area, the Central Area, and the Southernmost Area. The refined understanding of the distribution and extent of lead within the soil of these three areas supports limited removals of specific soil volumes which contain measured elevated lead concentrations to reduce potential ecological and human health risks.

Supplemental soil sampling was completed during November 2011 (Sampling Round 1) and September/October 2012 (Rounds 2A and 2B, respectively) to more fully delineate the extent of lead contamination within the soil of the three identified areas at UXO 7. The soil samples were collected in accordance with the SOPs and QA procedures presented in the approved Supplemental Sampling Activities at UXO 7 Ranges (approved October 21, 2011). The supplemental sampling program focused on defining the nature and extent of lead in soil within the Northernmost Area, Central Area, and Southernmost Area of the UXO 7 Rifle Range.

During all of the UXO 7 Rifle Range soil sampling and investigation events (2007 through 2012), lead was detected in multiple range soil samples and based on the magnitude of detected concentrations presented excess human health and ecological risks. The supplemental sampling approach extended down to a depth of 8 feet bgs in some locations and was appropriate to provide confirmation of the specific depth intervals where lead contamination had accumulated in the vertical soil profile (Figures 3-5 through 3-10).

Over 1,000 soil samples were collected from the three areas of the Rifle Range, with the majority of these samples undergoing field XRF analysis for lead. Representative soil samples evaluated by the field XRF approach were also submitted for FBL analysis to determine the overall accuracy of the XRF field screening process and to add greater credibility to the XRF data through a correlation analysis of the FBL and field data. A correlation study comparing XRF and FBL analytical lead data was completed to establish laboratory equivalent (calculated) lead concentrations based on the field measurements. Information regarding the correlation between XRF lead field samples and FBL lead analyzed samples is provided in **Appendix D**. **Table 2-1** presents a summary of the samples collected within the three areas

during the individual rounds of sampling at UXO 7. **Figure 2-3**, **Figure 2-4**, and **Figure 2-5** present the sample locations for the Northernmost Area, Central Area, and Southernmost Area, respectively.

3.3 DATA QUALITY REVIEW

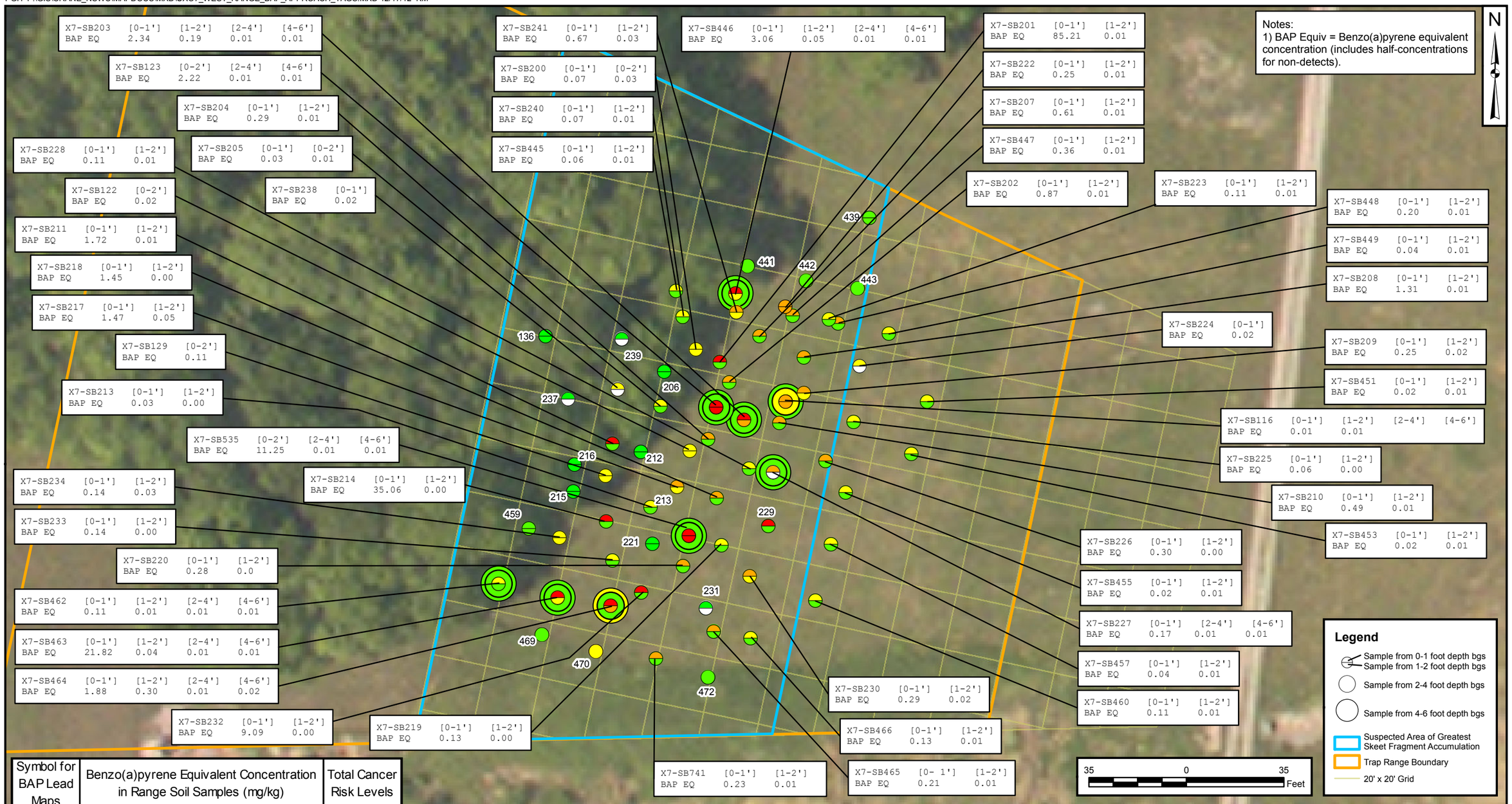
Data quality indicators (DQIs) are parameters monitored to help establish the quality of data generated during an investigation. Some of the DQIs are generated from analysis of field samples (e. g., field duplicates), and some are generated from the analysis of FBL samples (e. g., FBL duplicates). Individually, field and FBL DQIs provide measures of the performance of the respective investigative operations (field or FBL). During data validation, individual QC results were evaluated. If individual QC results were acceptable, no validation flag was assigned to an analytical result; otherwise, a flag indicating the type of QC deficiency was assigned to the result. Samples collected at UXO 7, were separated into five areas including the Northernmost Area, Central Area, Southernmost Area, East Trap Range, and West Trap Range. Tables C-1 through C-4 (Appendix C) present the qualified data along with the reason for qualification for each site, except the Southernmost Area, which did not have any qualified data. No data from UXO 7 were rejected and all data are considered useable for their intended purpose.

TABLES 3-1 THROUGH 3-5

ARE INCLUDED IN APPENDIX C

ON COMPACT DISC WITH THIS DOCUMENT

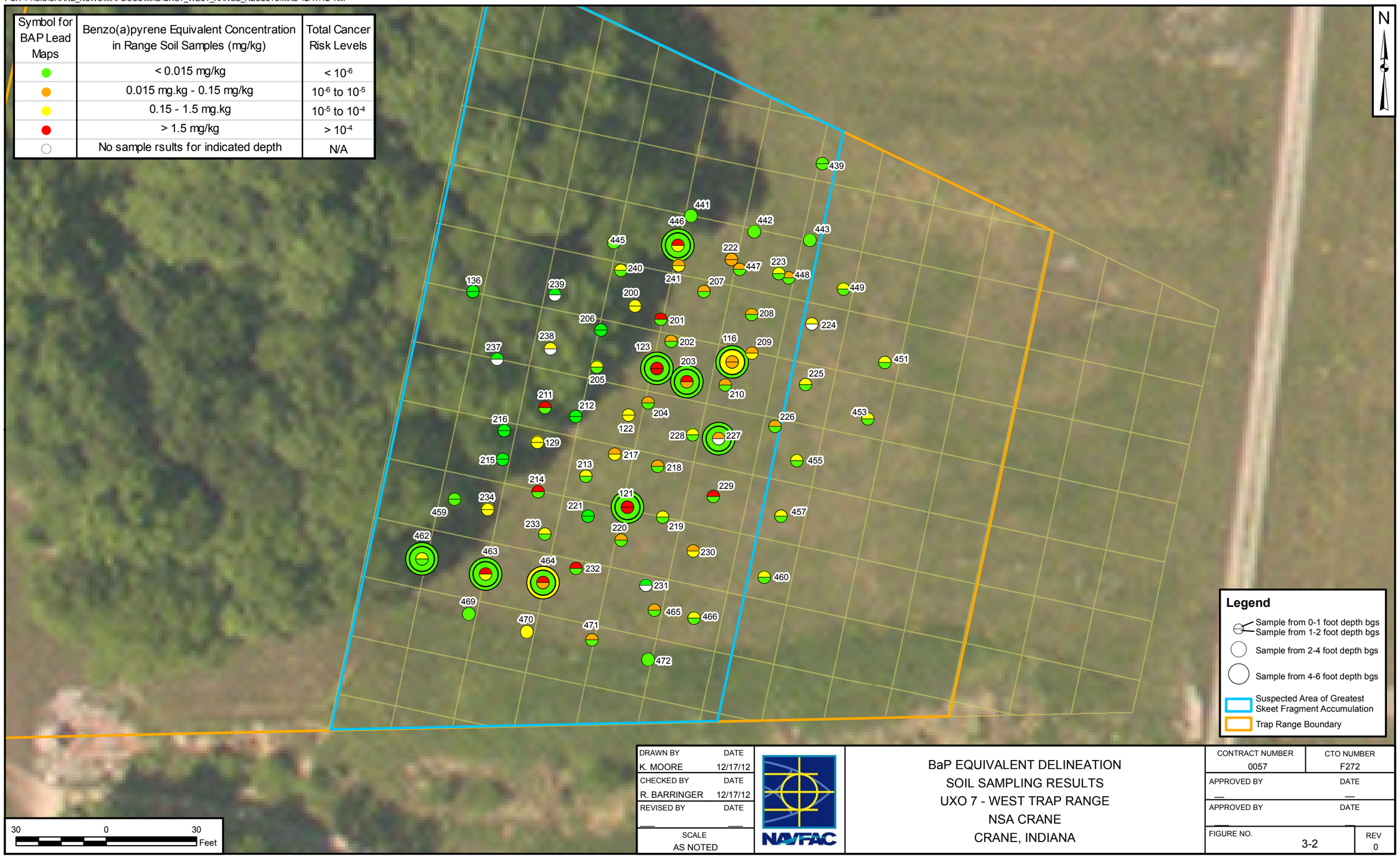
PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_WEST_RANGE_BAP_APPROACH_TAGS.MXD 12/17/12 KM



Symbol for BAP Lead Maps	Benzo(a)pyrene Equivalent Concentration in Range Soil Samples (mg/kg)	Total Cancer Risk Levels
●	< 0.015 mg/kg	$< 10^{-6}$
●	0.015 mg.kg - 0.15 mg/kg	10^{-6} to 10^{-5}
●	0.15 - 1.5 mg.kg	10^{-5} to 10^{-4}
●	> 1.5 mg/kg	$> 10^{-4}$
○	No sample rsults for indicated depth	N/A

DRAWN BY J. ENGLISH	DATE 03/01/12	BaP EQUIVALENTS IN RANGE SOIL FROM RFI (2007) & SUPPLEMENTAL SAMPLING UXO 7 - WEST TRAP RANGE NSA CRANE CRANE, INDIANA	CONTRACT NUMBER 0057 / CTO NUMBER F272
CHECKED BY R. BARRINGER	DATE 12/17/12		APPROVED BY — / DATE —
REVISED BY K. MOORE	DATE 12/17/12		APPROVED BY — / DATE —
SCALE AS NOTED			FIGURE NO. 3-1 / REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_WEST_RANGE_RESULTS.MXD 12/17/12 KM



Symbol for BAP Lead Maps	Benzo(a)pyrene Equivalent Concentration in Range Soil Samples (mg/kg)	Total Cancer Risk Levels
●	< 0.015 mg/kg	$< 10^{-6}$
●	0.015 mg.kg - 0.15 mg/kg	10^{-6} to 10^{-5}
●	0.15 - 1.5 mg.kg	10^{-5} to 10^{-4}
●	> 1.5 mg/kg	$> 10^{-4}$
○	No sample rsults for indicated depth	N/A

Legend

- Sample from 0-1 foot depth bgs
- Sample from 1-2 foot depth bgs
- Sample from 2-4 foot depth bgs
- Sample from 4-6 foot depth bgs
- Suspected Area of Greatest Skeet Fragment Accumulation
- Trap Range Boundary

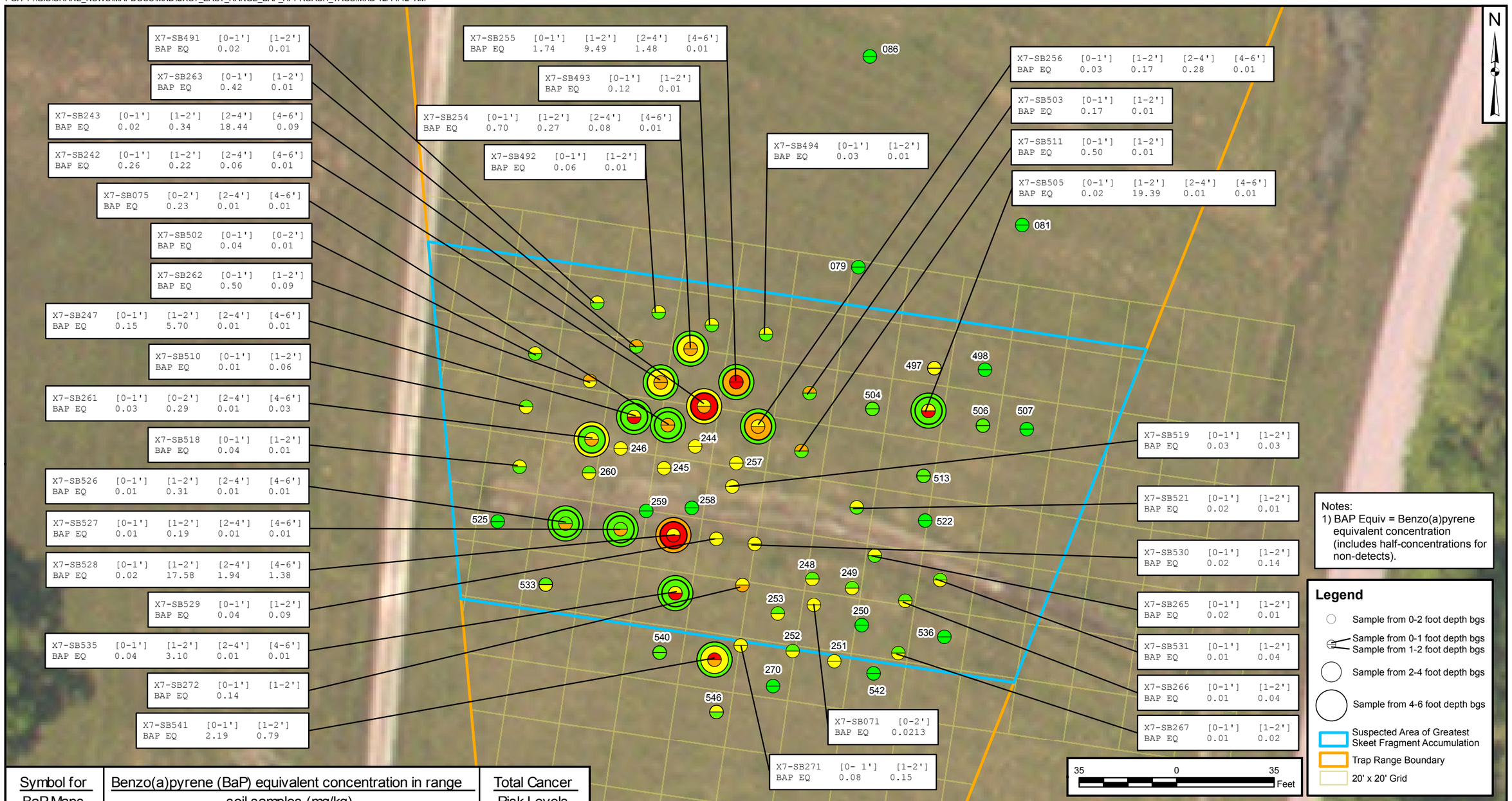
DRAWN BY	DATE
K. MOORE	12/17/12
CHECKED BY	DATE
R. BARRINGER	12/17/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

BaP EQUIVALENT DELINEATION
SOIL SAMPLING RESULTS
UXO 7 - WEST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
0057	F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-2	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_EAST_RANGE_BAP_APPROACH_TAGS.MXD 12/14/12 KM



Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentration in range soil samples (mg/kg)	Total Cancer Risk Levels
●	<0.015 mg/kg	$< 10^{-6}$
●	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
●	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
●	>1.5 mg/kg	$> 10^{-4}$

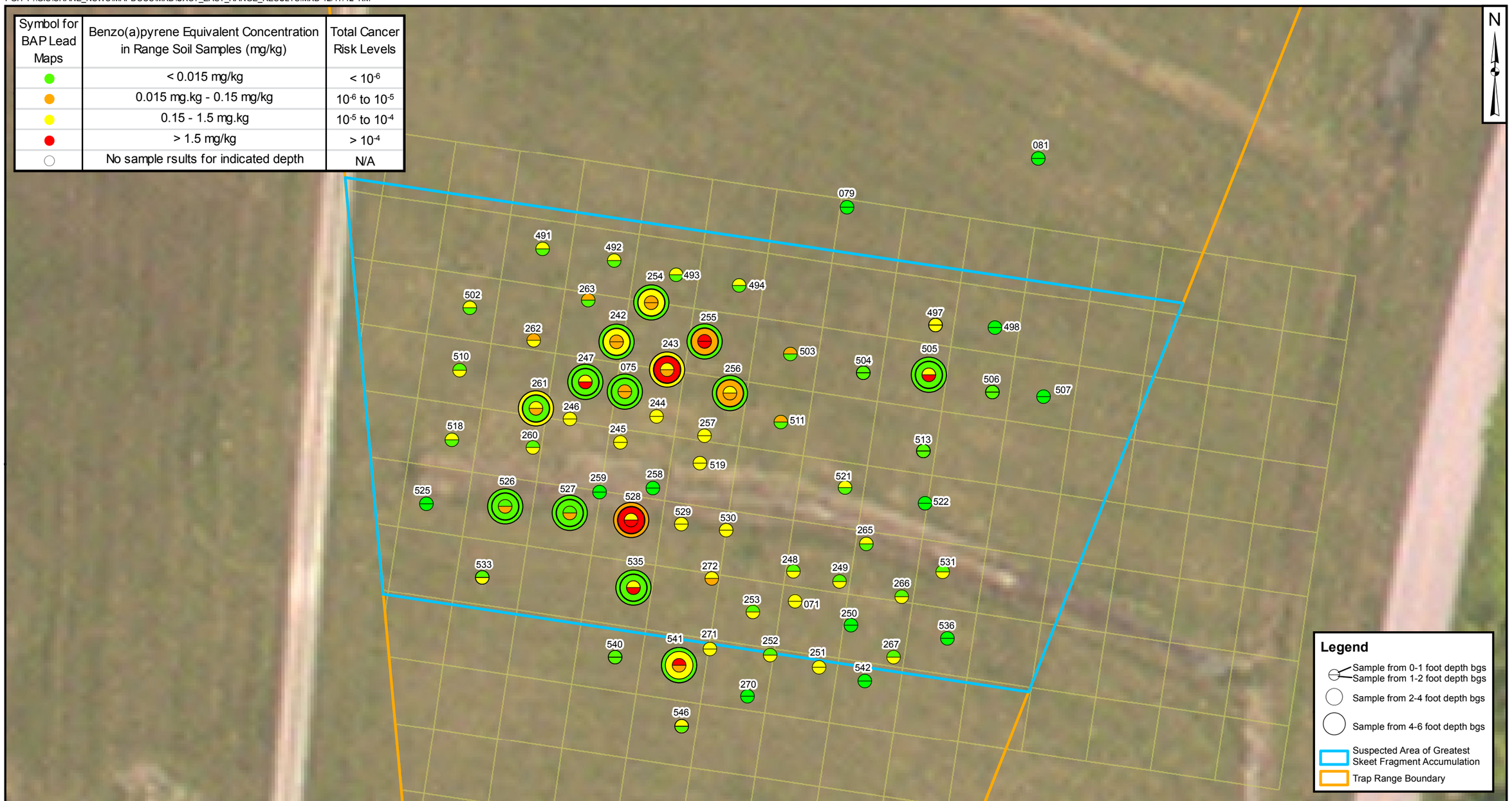
DRAWN BY J. NOVAK	DATE 10/04/12	
CHECKED BY R. BARRINGER	DATE 12/14/12	
REVISED BY	DATE	
SCALE AS NOTED		

NAVFAC

BaP EQUIVALENT DELINEATION SOIL SAMPLING RESULTS
UXO 7 - EAST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER 0057	CTO NUMBER F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-3	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_EAST_RANGE_RESULTS.MXD 12/17/12 KM



Symbol for BAP Lead Maps	Benzo(a)pyrene Equivalent Concentration in Range Soil Samples (mg/kg)	Total Cancer Risk Levels
●	< 0.015 mg/kg	$< 10^{-6}$
●	0.015 mg.kg - 0.15 mg/kg	10^{-6} to 10^{-5}
●	0.15 - 1.5 mg.kg	10^{-5} to 10^{-4}
●	> 1.5 mg/kg	$> 10^{-4}$
○	No sample rsults for indicated depth	N/A

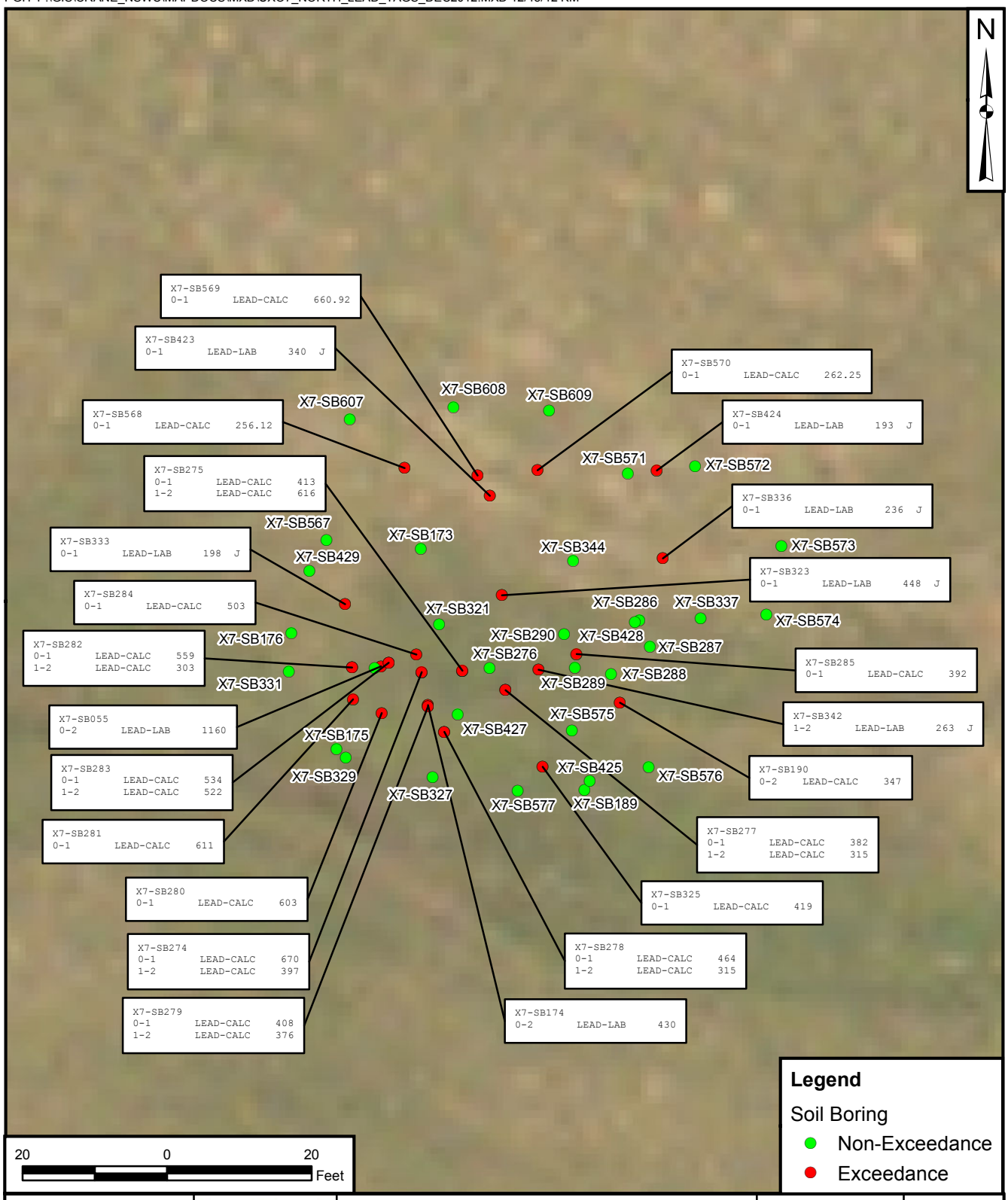
DRAWN BY	DATE
K. MOORE	12/17/12
CHECKED BY	DATE
R. BARRINGER	12/17/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

BaP EQUIVALENT DELINEATION
SOIL SAMPLING RESULTS
UXO 7 - EAST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
0057	F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-4	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_NORTH_LEAD_TAGS_DEC2012.MXD 12/18/12 KM



DRAWN BY	DATE			CONTRACT NUMBER	CTO NUMBER
K. MOORE	12/12/12		LEAD IN RANGE SOIL FROM RFI AND SUPPLEMENTAL SOIL SAMPLING UXO 7 - NORTHERNMOST AREA OF NORTHERN ZONE NSA CRANE CRANE, INDIANA	___	F272
CHECKED BY	DATE			APPROVED BY	DATE
R. BARRINGER	12/12/12			___	___
REVISED BY	DATE			APPROVED BY	DATE
___	___			___	___
SCALE AS NOTED		NAVFAC		FIGURE NO. 3-5	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_NORTH_LEAD_RESULTS_2012.MXD 12/18/12 KM

Symbol for Soil Lead Maps	Soil Lead Concentration Range
●	<192 mg/kg
●	≥ 192 mg/kg and ≤ 400 mg/kg
●	> 400 mg/kg
○	No sample taken at indicated depth

Legend

- Sample from 0-2 foot depth bgs
- Sample from 0-1 foot depth bgs
- Sample from 1-2 foot depth bgs
- Sample from 2-3 foot depth bgs
- Sample from 3-4 foot depth bgs

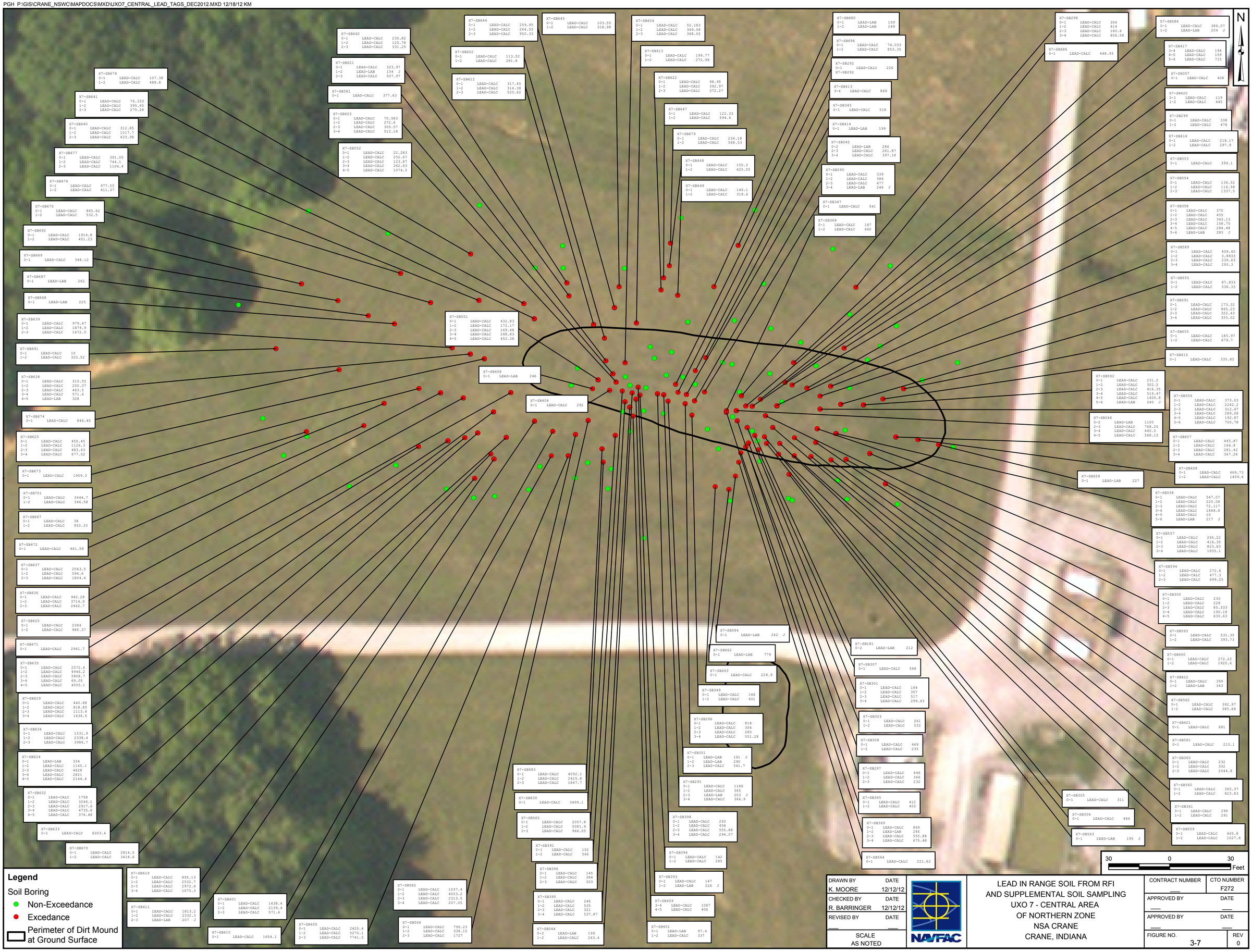
DRAWN BY	DATE
K. MOORE	12/14/12
CHECKED BY	DATE
J. GOERDT	12/18/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

LEAD IN RANGE SOIL FROM RFI
AND SUPPLEMENTAL SOIL SAMPLING
UXO 7 - NORTHERNMOST AREA OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

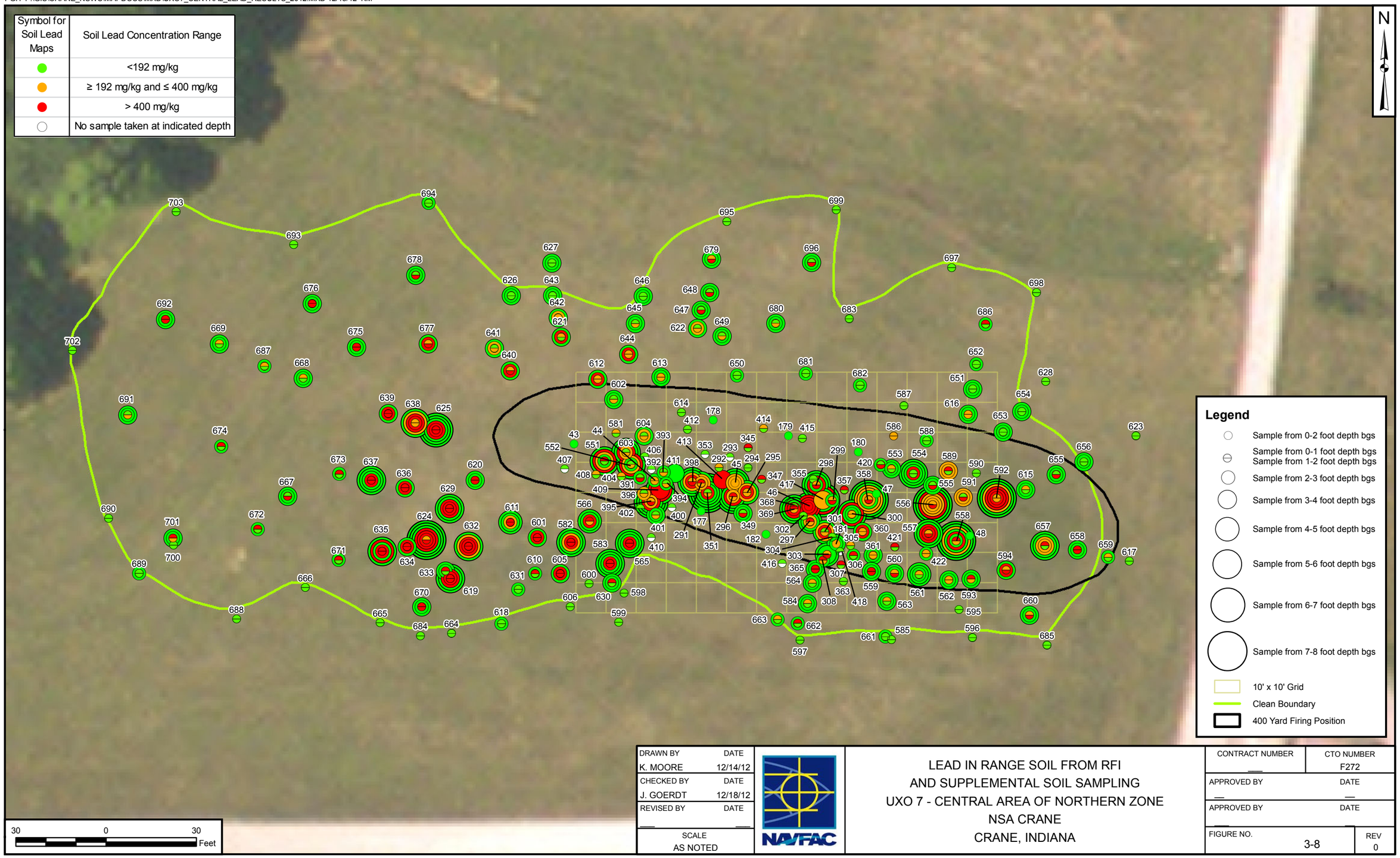
CONTRACT NUMBER	CTO NUMBER
1621	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-6	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_CENTRAL_LEAD_TAGS_DEC2012.MXD 12/18/12 KM



DRAWN BY K. MOORE	DATE 12/12/12	LEAD IN RANGE SOIL FROM RFI AND SUPPLEMENTAL SOIL SAMPLING UXO 7 - CENTRAL AREA OF NORTHERN ZONE NSA CRANE CRANE, INDIANA	CONTRACT NUMBER ___ / CTO NUMBER F272
CHECKED BY R. BARRINGER	DATE 12/12/12		APPROVED BY ___ / DATE ___
REVISED BY ___	DATE ___		APPROVED BY ___ / DATE ___
SCALE AS NOTED		NAVFAC	FIGURE NO. 3-7 / REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_CENTRAL_LEAD_RESULTS_2012.MXD 12/18/12 KM



Symbol for Soil Lead Maps	Soil Lead Concentration Range
●	<192 mg/kg
●	≥ 192 mg/kg and ≤ 400 mg/kg
●	> 400 mg/kg
○	No sample taken at indicated depth

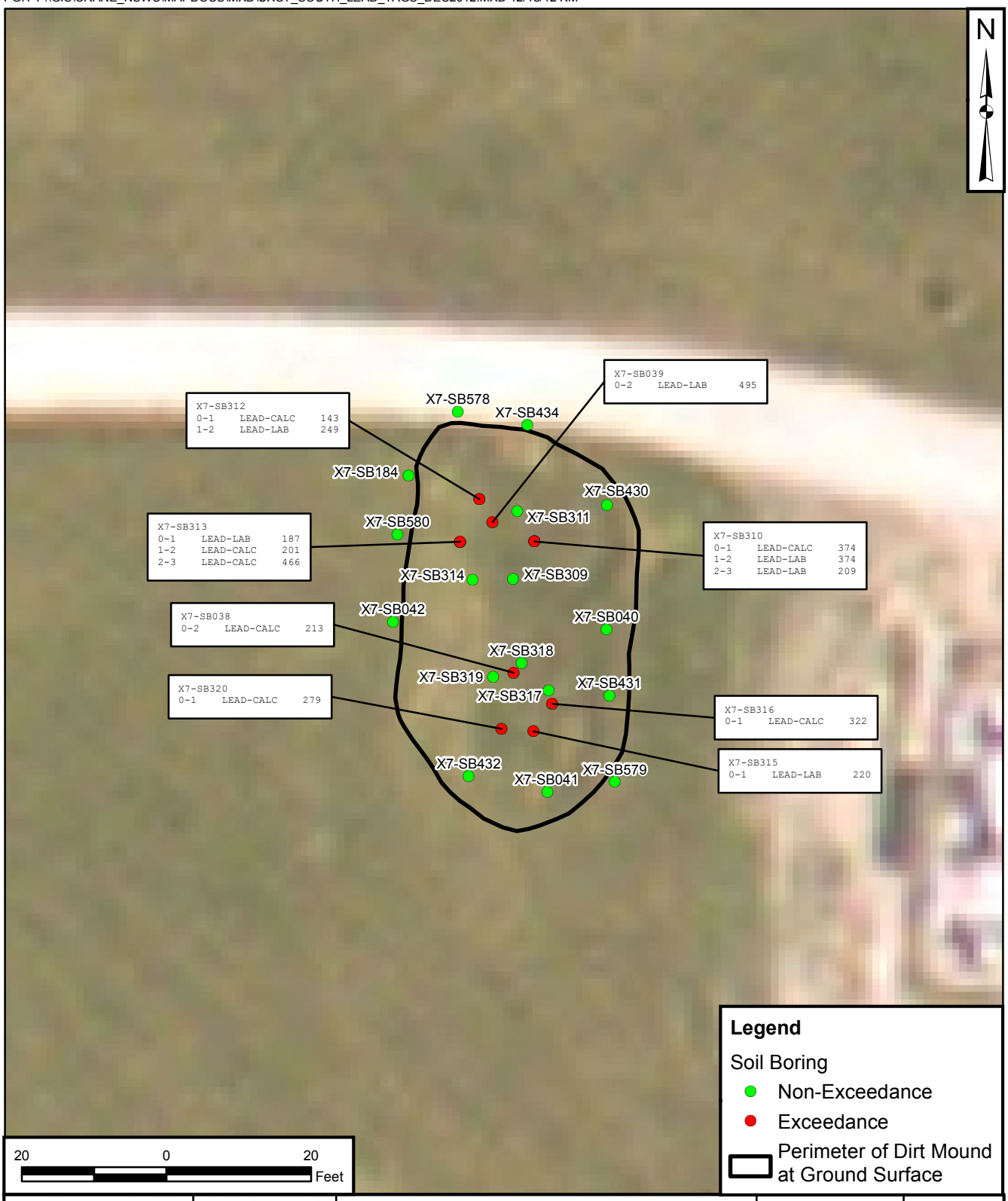
DRAWN BY K. MOORE	DATE 12/14/12
CHECKED BY J. GOERDT	DATE 12/18/12
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

LEAD IN RANGE SOIL FROM RFI
AND SUPPLEMENTAL SOIL SAMPLING
UXO 7 - CENTRAL AREA OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-8	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_SOUTH_LEAD_TAGS_DEC2012.MXD 12/18/12 KM



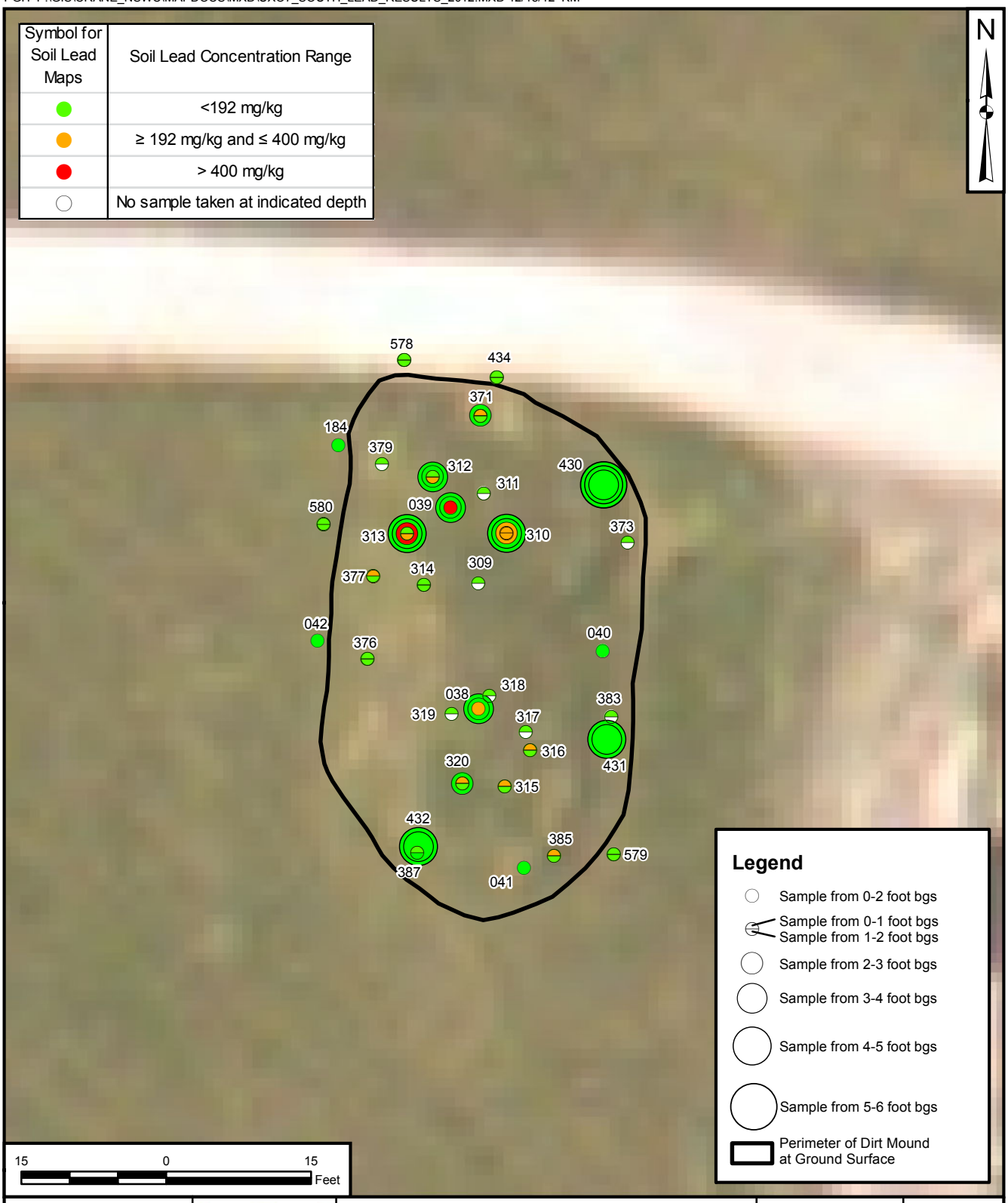
DRAWN BY	DATE
K. MOORE	12/12/12
CHECKED BY	DATE
R. BARRINGER	12/12/12
REVISED BY	DATE
___	___
SCALE AS NOTED	

NAVFAC

LEAD IN RANGE SOIL FROM RFI
AND SUPPLEMENTAL SOIL SAMPLING
UXO 7 - SOUTHERNMOST AREA
OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
___	F272
APPROVED BY	DATE
___	___
APPROVED BY	DATE
___	___
FIGURE NO. 3-9	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_SOUTH_LEAD_RESULTS_2012.MXD 12/18/12 KM



DRAWN BY	DATE			CONTRACT NUMBER	CTO NUMBER
K. MOORE	12/14/12		LEAD IN RANGE SOIL FROM RFI AND SUPPLEMENTAL SOIL SAMPLING UXO 7 - SOUTHERNMOST AREA OF NORTHERN ZONE NSA CRANE CRANE, INDIANA	___	F272
CHECKED BY	DATE			APPROVED BY	DATE
J. GOERDT	12/18/12			___	___
REVISED BY	DATE			APPROVED BY	DATE
___	___			___	___
SCALE AS NOTED		NAVFAC		FIGURE NO. 3-10	REV 0

4.0 HUMAN HEALTH RISK ASSESSMENT

The goal of this human health risk assessment (HHRA) update for UXO 7 was to re-evaluate combination of data collected for the Initial RFI (Tetra Tech 2009) and the additional Round 1 and Round 2 data collected in support of planned interim measures. Lead and PAHs had been identified as the major contaminants in UXO 7 soil. The initial HHRA had identified significant risks to human receptors from PAHs in soil. The additional data delineated the extent of contamination for use in estimation of remediation volumes and did not affect the initial HHRA conclusion that concentrations of PAHs in soil at the West and East Trap Ranges presented significant risk and that remedial actions are required.

In the baseline HHRA The Integrated Exposure Uptake Biokinetic (IEUBK) model and Adult Lead Model (ALM) analyses of lead concentrations in surface soil at UXO 7 indicated that predicted blood levels for children, adult workers, adult recreational users, and their fetuses were acceptable (i.e., within USEPA's goals and the probabilities of exceeding these goals from exposure to lead in soil were less than the USEPA goal of 5 percent Because the results for the Northern Zone, which were evaluated in the IEUBK and ALM analysis, were less than USEPA goals, it was not necessary to estimate risks for the Central and Southern Zones because the average lead concentrations in these areas (184 and 22.9 mg/kg, respectively) were less than the average concentration in the Northern Zone (278 mg/kg). Figure 1-2 shows the three zones.

The ecological risk assessment had identified the need for remedial actions to reduce risks from ecological receptors in the Northern Zone. For purposes of remediation the Northern Zone had been divided into three distinct areas (Northernmost, Central and Southernmost). The average lead concentration in the Northernmost Area using the combined dataset is 151 mg/kg. In the Central Area the average lead concentration in the combined dataset is 401 mg/kg. In the Southernmost Area the average lead concentration is 117 mg/kg. The lead concentration of 401 mg/kg in the Central Area is slightly above the residential lead screening criteria of 400 mg/kg. However, this concentration would not be expected to result in an exceedance of USEPA's goals for lead. Figure 1-2 shows the three areas within the Northern Zone.

Remedial actions will be conducted in all three areas of the Northern Zone to address excess risk from lead to ecological receptors. The ecological MCGs for lead are attainment of an average lead concentration of less than 192 mg/kg lead for each zone with no remaining soils with lead concentrations above 652 mg/kg. Attainment of the lead MCGs for protection of ecological receptors is expected to also lead to reductions of risk from lead to human receptors. Because attainment of ecological MCGs will

significantly reduce lead concentrations in the Northern Zone Central Area to below 278 mg/kg it was not necessary to re-evaluate lead risks.

5.0 ECOLOGICAL RISK UPDATES

The goal of this ecological risk assessment (ERA) update is to re-evaluate risks to ecological receptors from PAHs in the surface soil of the West and East Trap Ranges at Unexploded Ordnance (UXO) 7, because additional soil samples for PAH analysis have been collected since the ERA was presented in the RFI Report for UXO 7 Ranges (Tetra Tech, 2009). Risks from lead were not re-evaluated because ecological risks from lead were found to be significant in the initial UXO 7 RFI report. The objective for collection of additional samples was to refine the delineation for interim measures.

The general methodology that was followed for this ERA update was presented in the ERA in the RFI Report (Tetra Tech, 2009), and is not repeated here. However, there have been some changes in the methodology used to conduct ERAs at NSA Crane since the 2009 RFI report so these changes have been incorporated into this update, and are noted when they occur.

5.1 SELECTION OF CONTAMINANTS OF POTENTIAL CONCERN

The first step in this ERA update was to select the contaminants of potential concern (COPCs) using the most current toxicity data. Table 5-1 presents the soil screening levels for the four primary receptor groups that were evaluated in the ERA: plants, invertebrates, birds, and mammals. This is a difference from the ERA conducted in the RFI Report which only presented the lowest screening level for those receptor groups. The surface soil screening levels were selected in the following order of preference:

- USEPA Ecological Soil Screening Levels (Eco SSLs) (USEPA, 2007b) were selected first because they are the most current screening levels.

- Canadian Soil Quality Guidelines (SQG) (CCME, 2010) were selected next because they were developed following a similar approach as the USEPA Eco SSLs and are also relatively current.

- Oak Ridge National Laboratory (ORNL) Toxicological Benchmarks for invertebrates (Efroymson et al., 1997a) and plants (Efroymson et al., 1997b) were selected next because they are common benchmarks used for screening, but are typically based on a less robust data set than the Canadian SQGs

- Los Alamos National Laboratory (LANL) ECORISK database (version 3.1; LANL, 2011) were selected in the absence of data in the other references.

No Region 5 Ecological Screening Levels (ESLs) were used because all of the ESLs for PAHs are based on risks to mammals, and the USEPA Eco SSLs were used as the screening levels for mammals.

The next step in the process was to compile the analytical data into tables for the initial screening. The data were segregated into West Trap Range samples and East Trap Range samples and only data collected from the top two feet were included. Also, although there will likely be a removal action to excavate soil containing elevated levels of PAHs based on human health risks, for this initial screening, all the data collected from within the top two feet of soil were included in the screening tables. The COPC selection was conducted using the following rules:

- A contaminant was initially selected as a COPC for risks to terrestrial plants or soil invertebrates if the maximum detected concentration in surface soil exceeded the associated screening level or a screening level was not available.

- A contaminant was retained for food chain modeling for wildlife if its maximum detected concentration exceeded an associated soil screening level for birds or mammals or a screening level was not available for a bioaccumulative chemical. If the ecological effects quotient (EEQ) was greater than 1.0 based on the conservative food chain model, the chemical was initially selected as a COPC.

Tables 5-2 and 5-3 present the COPC selection tables for the West Trap Range samples and East Trap Range samples, respectively. For plants, 10 PAHs were selected as COPCs in both the West and East Trap Ranges because screening levels were not available. Six PAHs in the West Trap Range and one PAH in the East Trap Range were selected as COPCs because their maximum detected concentrations were greater than their respective screening levels, resulting in EEQs that were greater than 1.0. For invertebrates, nine PAHs in the West Trap Range and one PAH in the East Trap Range were selected as COPCs, because their maximum detected concentrations were greater than their respective screening levels.

As presented above, the avian and mammal screening levels were used to determine whether food chain modeling was needed for those chemicals. The determination of whether a chemical was selected as a COPC was based on the results of the food chain modeling. For mammals, screening levels were available for all of the PAHs, but screening levels were only available for a few of the PAHs for birds. Nine PAHs in the West Trap Range and eight PAHs in the East Trap Range were retained for food chain modeling because their maximum detected concentrations were greater than their respective avian or mammal screening levels. In addition, six PAHs in both the West and East Trap Ranges were retained for food chain modeling because avian screening levels were not available, even though the maximum

detected concentration did not exceed the mammal screening level. Those PAHs were still included in the mammal food chain model for simplicity, because the calculation spreadsheets were already set up for all of the PAHs. Finally, three PAHs were not retained for food chain modeling in either the West or East Trap Ranges because they are not considered bioaccumulative.

The food chain modeling was conducted in accordance with the methodology presented in the ERA in the RFI Report (Tetra Tech, 2009). However, some of the exposure factors have changed since the ERA was conducted. Also, some of the current soil-to-invertebrate bioaccumulation factors are different than the ones used in the 2009 ERA to reflect comments from USEPA Region 5 on other risk assessments conducted at NSA Crane. These updated tables are presented in Appendix E.

Tables 5-4 and 5-5 summarize the results of the Tier 1 inputs food chain modeling for terrestrial soil receptors. Appendix E presents the calculation worksheets. The following summarizes the results of the food chain modeling for terrestrial receptors using maximum concentrations and conservative input parameters:

West Trap Range

- Herbivorous mammal: Three PAHs had an EEQ greater than 1.0 and were initially selected as COPCs.
- Herbivorous bird: Four PAHs had an EEQ greater than 1.0 and were initially selected as COPCs.
- Invertivorous mammal: Nine PAHs had EEQs greater than 1.0 and were initially selected as COPCs.
- Invertivorous bird: Twelve PAHs had EEQs greater than 1.0 and were initially selected as COPCs.

East Trap Range

- Herbivorous mammal: No PAHs had an EEQ greater than 1.0 so none were initially selected as COPCs.
- Herbivorous bird: No PAHs had an EEQ greater than 1.0 so none were initially selected as COPCs.
- Invertivorous mammal: Eight PAHs had EEQs greater than 1.0 and were initially selected as COPCs.
- Invertivorous bird: Nine PAHs had EEQs greater than 1.0 and were initially selected as COPCs.

5.2 RISK EVALUATION

This risk evaluation is comparable to Step 3a of the ERA process which consists of refining the conservative exposure assumptions/concentrations used to evaluate potential risks to ecological receptors and re-evaluating the analytical data using benchmarks that are more appropriate for the

assessment endpoints. The Step 3a process is presented in the ERA in the RFI Report (Tetra Tech, 2009).

5.2.1 West Trap Range Risk Evaluation

This section presents the risk evaluation for plants, invertebrates, mammals, and birds from chemical concentrations in the West Trap Range.

Several PAHs were selected as COPCs for plants because their maximum detected concentrations were greater than their respective plant screening levels. Their concentrations only exceeded the screening level at four locations in the surface interval (SB201, SB214, SB463, and SB232). All of those locations are bounded within 20 to 30 feet by samples with concentrations less than the screening level (see Figure E-3 for sample locations). Also, all of those locations are proposed for excavation because the PAH concentrations exceed human health criteria. Plant screening levels were not available for 10 PAHs. As presented below for the East Trap Range, data presented in the Eco SSL document for PAHs shows that PAHs are typically not toxic to plants except at high soil concentrations with the lowest listed EC_{50} of 30 mg/kg from Mitchell et al. (1988). Concentrations of some of the other PAHs were greater than the lowest Canadian SQG of 2.5 mg/kg in samples from only four locations in addition to the ones listed above (SB121, SB123, SB229, and SB470). All of these locations are bounded within 20 to 30 feet by samples with concentrations less than the screening level. Also, all of these locations are proposed for excavation because the PAH concentrations exceed human health criteria. For these reasons, risks to plants from PAHs are low and they are eliminated as COPCs for plants.

Nine PAHs were selected as COPCs for invertebrates because their maximum detected concentration were greater than their respective invertebrate screening levels. Concentrations of PAHs only exceeded their screening level at three locations in the surface interval (SB201, SB214, and SB463). All of those locations are bounded within 20 to 30 feet by samples with concentrations less than the screening level. Also, all of those locations are proposed for excavation because the PAH concentrations exceed human health criteria. For these reasons, risks to invertebrates from PAHs are low and therefore, eliminated as COPCs for invertebrates.

As discussed above, EEQs from the terrestrial food chain modeling were greater than 1.0 for PAHs using maximum chemical concentrations and conservative exposure assumptions. Therefore, as part of the risk evaluation, food chain risks were recalculated using average chemical concentrations and average exposure parameters. Table 5-6 summarizes the results of the average food chain modeling for terrestrial soil receptors. Appendix E presents the calculation worksheets. No chemicals had EEQs

greater than 1.0; therefore, impacts to mammals and birds are not expected from chemicals detected in surface soil at the West Trap Range.

5.2.2 East Trap Range Risk Evaluation

This section presents the risk evaluation for plants, invertebrates, mammals, and birds from chemical concentrations in the East Trap Range.

Benzo(b)fluoranthene was the only PAH selected as a COPC for plants because its maximum detected concentration was greater than a plant screening level. Benzo(b)fluoranthene concentrations only exceeded the screening level at two locations in the surface interval (SB505 and SB528). Both of those locations are bounded within 20 feet by samples with concentrations less than the screening level (see Figure E-3 for sample locations). Therefore, the potentially impacted area is very small. Also, both of those locations are proposed for excavation because the PAH concentrations exceed human health criteria. Plant screening levels were not available for ten PAHs. However, data presented on Table 3.1 in the Eco SSL document for PAHs shows that PAHs are typically not toxic to plants except at high soil concentrations with the lowest listed EC_{50} of 30 mg/kg from Mitchell et al. (1988). Also, the Canadian SQGs are relatively high for anthracene (2.5 mg/kg), benzo(a)pyrene (20 mg/kg), and fluoranthene (50 mg/kg) (CCME, 2010), as seen on Table 1. Concentrations of some of the other PAHs were greater than the lowest Canadian SQG of 2.5 mg/kg in samples from only three locations in addition to the ones listed above (SB255, SB247, and SB535). All of these locations are bounded within 20 feet by samples with concentrations less than the screening level. Also, all of these locations are proposed for excavation because the PAH concentrations exceed human health criteria. For these reasons, risks to plants from PAHs are low and therefore, eliminated as COPCs for plants.

Benzo(b)fluoranthene was the only PAH selected as a COPC for invertebrates because its maximum detected concentration was greater than an invertebrate screening level. It only exceeded the screening level at two locations in the surface interval (SB505 and SB528). Similar to what was discussed above for plants, both of those locations are bounded within 20 feet by samples with concentrations less than the screening level and both of those locations are proposed for excavation. For these reasons, risks to invertebrates from benzo(b)fluoranthene are low and it is eliminated as a COPC for invertebrates. No other PAHs had concentrations greater than their respective screening levels in any samples, so risks to invertebrates from PAHs are low and therefore, eliminated as COPCs for invertebrates.

As discussed above, EEQs from the terrestrial food chain modeling were greater than 1.0 for PAHs using maximum chemical concentrations and conservative exposure assumptions. Therefore, as part of the

risk evaluation, food chain risks were recalculated using average chemical concentrations and average exposure parameters. Table 5-7 summarizes the results of the average food chain modeling for terrestrial soil receptors. Appendix E presents the calculation worksheets. No chemicals had EEQs were greater than 1.0; therefore, impacts to mammals and birds are not expected from chemicals detected in surface soil at the East Trap Range.

5.3 ECOLOGICAL RISK SUMMARY AND CONCLUSIONS

This ERA Update evaluated risks to plants, invertebrates, birds, and mammals from exposure to PAHs in surface soil. Based on the initial screening of the chemical data, several chemicals were initially selected as COPCs in surface soil because they were detected at concentrations that exceeded conservative screening levels, they had EEQs greater than 1.0 in the conservative food chain model, or because they did not have screening levels.

These chemicals were then further evaluated to refine the list of COPCs, and to better characterize risks to ecological receptors. After further evaluation, no chemicals were retained as COPCs for risks to any of the ecological receptors.

TABLE 5-1

SOIL SCREENING LEVELS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Parameter	Ecological Soil Screening Level							
	Plant		Invertebrate		Avian		Mammal	
	Value	Source	Value	Source	Value	Source	Value	Source
Polycyclic Aromatic Hydrocarbons (mg/kg)								
1-Methylnaphthalene[1]	NA	NA	29	EcoSSL	NA	NA	100	EcoSSL
2-Methylnaphthalene	NA	NA	29	EcoSSL	NA	NA	100	EcoSSL
Acenaphthene	20	ORNL	29	EcoSSL	NA	NA	100	EcoSSL
Acenaphthylene	20	ORNL[2]	29	EcoSSL	NA	NA	100	EcoSSL
Anthracene	2.5	CCME	29	EcoSSL	NA	NA	100	EcoSSL
Benzo(a)anthracene	18	LANL	18	EcoSSL	0.8	LANL	1.1	EcoSSL
Benzo(a)pyrene	20	CCME	18	EcoSSL	NA	NA	1.1	EcoSSL
Benzo(b)fluoranthene	18	LANL	18	EcoSSL	NA	NA	1.1	EcoSSL
Benzo(g,h,i)perylene	NA	NA	18	EcoSSL	NA	NA	1.1	EcoSSL
Benzo(k)fluoranthene	NA	NA	18	EcoSSL	NA	NA	1.1	EcoSSL
Chrysene	NA	NA	18	EcoSSL	NA	NA	1.1	EcoSSL
Dibenzo(a,h)anthracene	NA	NA	18	EcoSSL	NA	NA	1.1	EcoSSL
Fluoranthene	50	CCME	29	EcoSSL	NA	NA	100	EcoSSL
Fluorene	NA	NA	29	EcoSSL	NA	NA	100	EcoSSL
Indeno(1,2,3-cd)pyrene	NA	NA	18	EcoSSL	NA	NA	1.1	EcoSSL
Naphthalene	1	LANL	29	EcoSSL	3.4	LANL	100	EcoSSL
Phenanthrene	NA	NA	29	EcoSSL	NA	NA	100	EcoSSL
Pyrene	NA	NA	18	EcoSSL	34	LANL	1.1	EcoSSL

Ecological Screening Level sources used in the order of preference:
EcoSSL - EPA Ecological Soil Screening Levels (USEPA, 2005a-h, 2006a, 2007b-g, 2008)
CCME - Canadian Soil Quality Guidelines (CCME, 1999a-e, 2001, 2004a-d, 2006, 2010).
ORNL - Oak Ridge National Laboratory Toxicological Benchmarks for plants and invertebrates (Efroymson et al., 1997a, 1997b).
LANL (3.1 Ecorisk database; LANL, 2012)

Footnotes:
1 - Values are for 2-methylnaphthalene
2 - Value for acenaphthene.

NA - Not available.

TABLE 5-2

ECOLOGICAL COPC SELECTION - SURFACE SOIL IN THE WEST TRAP RANGE
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Parameter	Frequency of Detection	Minimum Detection	Maximum Detection	Sample ID of Maximum Detection	Average of Detections[1,2]	Average of All Results[1,3]	Ecological Screening Level[4]				Ecological Effects Quotient[5]				Deletion or Selection of COPCs for Invertebrates/Plants		Further Evaluated in Terrestrial Food Chain Modeling[6]	
							Plants	Invertebrates	Avian	Mammals	Plants	Invertebrates	Avian	Mammals	COPC (yes/no)?	Rationale	Evaluated (yes/no)?	Rationale
Polycyclic Aromatic Hydrocarbons (mg/kg)																		
1-METHYLNAPHTHALENE	18/122	0.00211 J	0.318	X7-SS201-0001	0.042	0.008	NA	29	NA	100	NA	0.01	NA	0.003	YES	NSL	NO	NONBIO
2-METHYLNAPHTHALENE	23/128	0.00213 J	0.362	X7-SS201-0001	0.042	0.009	NA	29	NA	100	NA	0.01	NA	0.004	YES	NSL	NO	NONBIO
ACENAPHTHENE	47/128	0.00203 J	2.3	X7-SS201-0001	0.139	0.052	20	29	NA	100	0.12	0.08	NA	0.02	NO	BSL	YES	NSL, BIO
ACENAPHTHYLENE	1/128	0.027	0.027	X7-SS123-0002	0.027	0.003	20	29	NA	100	0.001	0.00	NA	0.0003	NO	BSL	YES	NSL, BIO
ANTHRACENE	53/128	0.00194 J	3.33	X7-SS232-0001	0.19	0.079	2.5	29	NA	100	1.3	0.11	NA	0.03	YES	ASL	YES	NSL, BIO
BENZO(A)ANTHRACENE	86/128	0.00193 J	52.3	X7-SS201-0001	1.42	0.96	18	18	0.8	1.1	2.9	2.9	65	48	YES	ASL	YES	ASL, BIO
BENZO(A)PYRENE	91/128	0.00257 J	56.6	X7-SS201-0001	1.49	1.06	20	18	NA	1.1	2.83	3.1	NA	51	YES	ASL	YES	NSL, ASL, BIO
BENZO(B)FLUORANTHENE	95/128	0.00246 J	79.4	X7-SS201-0001	1.95	1.45	18	18	NA	1.1	4.4	4.4	NA	72	YES	ASL	YES	NSL, ASL, BIO
BENZO(G,H,I)PERYLENE	90/128	0.00228 J	48.3	X7-SS201-0001	1.14	0.80	NA	18	NA	1.1	NA	2.7	NA	44	YES	NSL, ASL	YES	NSL, ASL, BIO
BENZO(K)FLUORANTHENE	83/128	0.00229 J	23	X7-SS201-0001	0.74	0.48	NA	18	NA	1.1	NA	1.3	NA	21	YES	NSL, ASL	YES	NSL, ASL, BIO
CHRYSENE	86/128	0.00212 J	66.8	X7-SS201-0001	1.76	1.18	NA	18	NA	1.1	NA	3.7	NA	61	YES	NSL, ASL	YES	NSL, ASL, BIO
DIBENZO(A,H)ANTHRACENE	44/128	0.00211 J	10.3	X7-SS201-0001	0.44	0.15	NA	18	NA	1.1	NA	0.57	NA	9.4	YES	NSL	YES	NSL, ASL, BIO
FLUORANTHENE	94/128	0.00208 J	61.4	X7-SS201-0001	1.64	1.21	50	29	NA	100	1.2	2.1	NA	0.6	YES	ASL	YES	NSL, BIO
FLUORENE	33/128	0.00239 J	1.3	X7-SS232-0001	0.12	0.034	NA	29	NA	100	NA	0.04	NA	0.01	YES	NSL	YES	NSL, BIO
INDENO(1,2,3-CD)PYRENE	90/128	0.002 J	48.4	X7-SS201-0001	1.12	0.79	NA	18	NA	1.1	NA	2.7	NA	44	YES	NSL, ASL	YES	NSL, ASL, BIO
NAPHTHALENE	22/128	0.00239 J	1.43	X7-SS201-0001	0.14	0.026	1	29	3.4	100	1.4	0.05	0.42	0.01	YES	ASL	NO	BSL, NONBIO
PHENANTHRENE	90/128	0.00201 J	13.7	X7-SS201-0001	0.51	0.36	NA	29	NA	100	NA	0.47	NA	0.1	YES	NSL	YES	NSL, BIO
PYRENE	95/128	0.00197 J	62.6	X7-SS201-0001	1.68	1.25	NA	18	34	1.1	NA	3.5	1.8	57	YES	NSL, ASL	YES	ASL, BIO

Shading indicates the EEQ is greater than 1.0, the chemical is selected as a COPC, or the chemical is retained for food chain modeling.
EEQ - Ecological Effects Quotient
COPC - Chemical of Potential Concern
NA - Not Applicable/Not Available

1 - When duplicate results are available, the maximum of the original and duplicate sample is used in the calculation.
2 - Average of detected concentrations only.
3 - Average of all analytical results including one-half of the detection limit for non-detects.
4 - The sources of the screening levels are presented in Appendix ___.
5 - EEQ is calculated by dividing the chemical concentration by its screening level. Value is unitless.
6 - Chemicals with EEQs for birds or mammals greater than 1.0 or bioaccumulative chemicals without bird or mammal screening values are retained for food chain modeling.

Rationale Codes for COPC Selection:
ASL - Above Screening Level
BIO - Bioaccumulative chemical
BSL - Below Screening Level
NSL - No Screening Level
NONBIO - Non-bioaccumulative chemical

TABLE 5-3

ECOLOGICAL COPC SELECTION - SURFACE SOIL IN THE EAST TRAP RANGE
UXO 7 - RAMGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Parameter	Frequency of Detection	Minimum Detection	Maximum Detection	Sample ID of Maximum Detection	Average of Detections[1,2]	Average of All Results[1,3]	Ecological Screening Level[4]				Ecological Effects Quotient[5]				Deletion or Selection of COPCs for Invertebrates/Plants		Further Evaluated in Terrestrial Food Chain Modeling[6]	
							Plants	Invertebrates	Avian	Mammals	Plants	Invertebrates	Avian	Mammals	COPC (yes/no)?	Rationale	Evaluated (yes/no)?	Rationale
Polycyclic Aromatic Hydrocarbons (mg/kg)																		
1-METHYLNAPHTHALENE	5/122	0.0033 J	0.0507	X7-SS528-0102	0.02	0.004	NA	29	NA	100	NA	0.002	NA	0.001	YES	NSL	NO	NONBIO
2-METHYLNAPHTHALENE	6/127	0.0029 J	0.0598	X7-SS528-0102	0.02	0.004	NA	29	NA	100	NA	0.002	NA	0.001	YES	NSL	NO	NONBIO
ACENAPHTHENE	28/127	0.0019 J	0.545	X7-SS528-0102	0.04	0.01	20	29	NA	100	0.03	0.02	NA	0.005	NO	BSL	YES	NSL, BIO
ANTHRACENE	39/127	0.0021 J	0.502	X7-SS528-0102	0.04	0.02	2.5	29	NA	100	0.20	0.02	NA	0.005	NO	BSL	YES	NSL, BIO
BENZO(A)ANTHRACENE	85/127	0.0037 J	10.6	X7-SS505-0102	0.46	0.31	18	18	0.8	1.1	0.59	0.59	13.3	9.6	NO	BSL	YES	ASL, BIO
BENZO(A)PYRENE	107/127	0.0019 J	15.4	X7-SS505-0102	0.48	0.40	20	18	NA	1.1	0.77	0.86	NA	14	NO	BSL	YES	NSL, ASL, BIO
BENZO(B)FLUORANTHENE	109/127	0.0021 J	20.9	X7-SS505-0102	0.63	0.54	18	18	NA	1.1	1.16	1.16	NA	19	YES	ASL	YES	NSL, ASL, BIO
BENZO(G,H,I)PERYLENE	98/127	0.0022 J	8.65	X7-SS505-0102	0.33	0.25	NA	18	NA	1.1	NA	0.48	NA	7.9	YES	NSL	YES	NSL, ASL, BIO
BENZO(K)FLUORANTHENE	92/127	0.0020 J	6.93	X7-SS505-0102	0.26	0.19	NA	18	NA	1.1	NA	0.39	NA	6.3	YES	NSL	YES	NSL, ASL, BIO
CHRYSENE	86/127	0.0020 J	13.4	X7-SS505-0102	0.56	0.38	NA	18	NA	1.1	NA	0.74	NA	12.2	YES	NSL	YES	NSL, ASL, BIO
DIBENZO(A,H)ANTHRACENE	41/127	0.0020 J	1.03	X7-SS255-0102	0.06	0.02	NA	18	NA	1.1	NA	0.06	NA	0.94	YES	NSL	YES	NSL, BIO
FLUORANTHENE	107/127	0.0019 J	11.8	X7-SS505-0102, X7-SS528-0102	0.44	0.37	50	29	NA	100	0.24	0.41	NA	0.12	NO	BSL	YES	NSL, BIO
FLUORENE	19/127	0.0020 J	0.192	X7-SS528-0102	0.03	0.01	NA	29	NA	100	NA	0.01	NA	0.002	YES	NSL	YES	NSL, BIO
INDENO(1,2,3-CD)PYRENE	97/127	0.0020 J	7.63	X7-SS528-0102	0.31	0.24	NA	18	NA	1.1	NA	0.42	NA	6.9	YES	NSL	YES	NSL, ASL, BIO
NAPHTHALENE	12/127	0.0021 J	0.154	X7-SS528-0102	0.04	0.01	1	29	3.4	100	0.15	0.01	0.05	0.002	NO	BSL	NO	BSL, NONBIO
PHENANTHRENE	85/127	0.0023 J	1.97	X7-SS505-0102	0.10	0.07	NA	29	NA	100	NA	0.07	NA	0.02	YES	NSL	YES	NSL, BIO
PYRENE	107/127	0.0019 J	12.7	X7-SS505-0102	0.45	0.38	NA	18	34	1.1	NA	0.71	0.37	11.5	YES	NSL	YES	ASL, BIO

Shading indicates the EEQ is greater than 1.0, the chemical is selected as a COPC, or the chemical is retained for food chain modeling.
EEQ - Ecological Effects Quotient
COPC - Chemical of Potential Concern
NA - Not Applicable/Not Available

1 - When duplicate results are available, the maximum of the original and duplicate sample is used in the calculation.
2 - Average of detected concentrations only.
3 - Average of all analytical results including one-half of the detection limit for non-detects.
4 - The sources of the screening levels are presented in Appendix ___.
5 - EEQ is calculated by dividing the chemical concentration by its screening level. Value is unitless.
6 - Chemicals with EEQs for birds or mammals greater than 1.0 or bioaccumulative chemicals without bird or mammal screening values are retained for food chain modeling.

Rationale Codes for COPC Selection:
ASL - Above Screening Level
BIO - Bioaccumulative chemical
BSL - Below Screening Level
NSL - No Screening Level
NONBIO - Non-bioaccumulative chemical

TABLE 5-4

TERRESTRIAL FOOD CHAIN MODEL - TIER 1 SCENARIO - WEST TRAP RANGE
INVERTIVOROUS AND HERBIVOROUS RECEPTORS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

	Herbivorous Receptors EEQs				Invertivorous Receptors EEQs			
	Bobwhite Quail		Meadow Vole		Woodcock		Short-Tailed Shrew	
Chemical	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**
Polycyclic Aromatic Hydrocarbons								
ACENAPHTHENE	1.6E-02	1.6E-03	6.7E-05	1.2E-05	3.4E-01	3.4E-02	8.9E-03	1.6E-03
ACENAPHTHYLENE	1.1E-03	1.1E-04	1.7E-05	3.1E-06	5.7E-02	5.7E-03	1.6E-03	3.0E-04
ANTHRACENE	7.1E-02	7.1E-03	9.4E-04	1.7E-04	7.9E-01	7.9E-02	2.1E-02	3.9E-03
BENZO(A)ANTHRACENE	4.0E-01	4.0E-02	2.3E-01	3.6E-03	8.4E+00	8.4E-01	2.3E+01	3.8E-01
BENZO(A)PYRENE	7.3E-01	7.3E-02	7.9E-01	1.3E-02	7.7E+00	7.7E-01	2.1E+01	3.4E-01
BENZO(B)FLUORANTHENE	1.8E+00	1.8E-01	2.6E+00	4.1E-02	2.0E+01	2.0E+00	5.8E+01	9.2E-01
BENZO(G,H,I)PERYLENE	2.3E+00	2.3E-01	3.8E+00	6.1E-02	1.4E+01	1.4E+00	4.0E+01	6.3E-01
BENZO(K)FLUORANTHENE	2.5E-01	2.5E-02	2.3E-01	3.7E-03	5.8E+00	5.8E-01	1.7E+01	2.7E-01
CHRYSENE	5.1E-01	5.1E-02	2.8E-01	4.5E-03	1.5E+01	1.5E+00	4.3E+01	6.9E-01
DIBENZO(A,H)ANTHRACENE	1.4E-01	1.4E-02	1.6E-01	2.5E-03	2.3E+00	2.3E-01	6.7E+00	1.1E-01
FLUORANTHENE	2.0E+00	2.0E-01	2.9E-02	5.4E-03	1.8E+01	1.8E+00	4.9E-01	9.0E-02
FLUORENE	9.3E-03	9.3E-04	4.0E-05	7.3E-06	1.2E+00	1.2E-01	3.2E-02	6.0E-03
INDENO(1,2,3-CD)PYRENE	6.1E-01	6.1E-02	6.5E-01	1.0E-02	1.3E+01	1.3E+00	3.9E+01	6.2E-01
PHENANTHRENE	3.1E-01	3.1E-02	4.2E-03	7.8E-04	2.4E+00	2.4E-01	6.2E-02	1.1E-02
PYRENE	2.7E+00	2.7E-01	4.5E+00	7.2E-02	1.1E+01	1.1E+00	3.1E+01	4.9E-01

Cells are shaded if the value is greater than 1.0

NOAEL - No Observed Adverse Effects Level
LOAEL - Lowest Observed Adverse Effects Level
EEQ - Ecological Effects Quotient

TABLE 5-5

TERRESTRIAL FOOD CHAIN MODEL - TIER 1 SCENARIO - EAST TRAP RANGE
INVERTIVOROUS AND HERBIVOROUS RECEPTORS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

	Herbivorous Receptors EEQs				Invertivorous Receptors EEQs			
	Bobwhite Quail		Meadow Vole		Woodcock		Short-Tailed Shrew	
Chemical	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**
Polycyclic Aromatic Hydrocarbons								
ACENAPHTHENE	4.2E-03	4.2E-04	2.1E-05	3.9E-06	8.1E-02	8.1E-03	2.1E-03	3.9E-04
ANTHRACENE	1.5E-02	1.5E-03	2.1E-04	3.8E-05	1.2E-01	1.2E-02	3.2E-03	5.9E-04
BENZO(A)ANTHRACENE	8.8E-02	8.8E-03	5.8E-02	9.3E-04	1.7E+00	1.7E-01	4.7E+00	7.6E-02
BENZO(A)PYRENE	2.0E-01	2.0E-02	2.2E-01	3.5E-03	2.1E+00	2.1E-01	5.8E+00	9.3E-02
BENZO(B)FLUORANTHENE	4.7E-01	4.7E-02	6.8E-01	1.1E-02	5.3E+00	5.3E-01	1.5E+01	2.4E-01
BENZO(G,H,I)PERYLENE	3.2E-01	3.2E-02	5.1E-01	8.1E-03	2.5E+00	2.5E-01	7.1E+00	1.1E-01
BENZO(K)FLUORANTHENE	8.0E-02	8.0E-03	7.9E-02	1.3E-03	1.7E+00	1.7E-01	5.0E+00	8.1E-02
CHRYSENE	1.1E-01	1.1E-02	7.0E-02	1.1E-03	3.0E+00	3.0E-01	8.6E+00	1.4E-01
DIBENZO(A,H)ANTHRACENE	1.4E-02	1.4E-03	1.6E-02	2.5E-04	2.3E-01	2.3E-02	6.7E-01	1.1E-02
FLUORANTHENE	3.8E-01	3.8E-02	5.6E-03	1.0E-03	3.5E+00	3.5E-01	9.4E-02	1.7E-02
FLUORENE	2.1E-03	2.1E-04	1.9E-05	3.6E-06	1.7E-01	1.7E-02	4.8E-03	8.8E-04
INDENO(1,2,3-CD)PYRENE	9.6E-02	9.6E-03	1.0E-01	1.6E-03	2.1E+00	2.1E-01	6.1E+00	9.8E-02
PHENANTHRENE	7.9E-02	7.9E-03	1.2E-03	2.2E-04	3.4E-01	3.4E-02	8.9E-03	1.6E-03
PYRENE	5.5E-01	5.5E-02	9.1E-01	1.5E-02	2.2E+00	2.2E-01	6.2E+00	1.0E-01

Cells are shaded if the value is greater than 1.0

NOAEL - No Observed Adverse Effects Level
LOAEL - Lowest Observed Adverse Effects Level
EEQ - Ecological Effects Quotient

TABLE 5-6

TERRESTRIAL FOOD CHAIN MODEL - TIER 2, STEP 3A SCENARIO - WEST TRAP RANGE
INVERTIVOROUS AND HERBIVOROUS RECEPTORS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

	Herbivorous Receptors EEQs				Invertivorous Receptors EEQs			
	Bobwhite Quail		Meadow Vole		Woodcock		Short-Tailed Shrew	
Chemical	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**
Polycyclic Aromatic Hydrocarbons								
BENZO(A)ANTHRACENE	5.0E-03	5.0E-04	6.1E-03	9.7E-05	1.1E-01	1.1E-02	2.4E-01	3.9E-03
BENZO(A)PYRENE	8.1E-03	8.1E-04	1.2E-02	1.9E-04	9.8E-02	9.8E-03	2.2E-01	3.6E-03
BENZO(B)FLUORANTHENE	2.2E-02	2.2E-03	3.7E-02	5.9E-04	2.6E-01	2.6E-02	6.0E-01	9.6E-03
BENZO(G,H,I)PERYLENE	1.4E-02	1.4E-03	2.5E-02	4.0E-04	1.6E-01	1.6E-02	3.8E-01	6.0E-03
BENZO(K)FLUORANTHENE	3.7E-03	3.7E-04	5.3E-03	8.6E-05	8.6E-02	8.6E-03	2.0E-01	3.2E-03
CHRYSENE	5.9E-03	5.9E-04	7.0E-03	1.1E-04	1.9E-01	1.9E-02	4.3E-01	6.9E-03
DIBENZO(A,H)ANTHRACENE	1.2E-03	1.2E-04	1.7E-03	2.7E-05	2.4E-02	2.4E-03	5.6E-02	8.9E-04
FLUORANTHENE	2.8E-02	2.8E-03	4.6E-04	8.5E-05	2.5E-01	2.5E-02	5.5E-03	1.0E-03
FLUORENE	2.9E-03	2.9E-04	5.2E-05	9.6E-06	2.2E-02	2.2E-03	4.8E-04	8.8E-05
INDENO(1,2,3-CD)PYRENE	5.5E-03	5.5E-04	7.6E-03	1.2E-04	1.5E-01	1.5E-02	3.6E-01	5.8E-03
PHENANTHRENE	1.9E-02	1.9E-03	3.4E-04	6.2E-05	4.3E-02	4.3E-03	9.3E-04	1.7E-04
PYRENE	4.0E-02	4.0E-03	7.2E-02	1.2E-03	1.5E-01	1.5E-02	3.5E-01	5.6E-03

Cells are shaded if the value is greater than 1.0

NOAEL - No Observed Adverse Effects Level
LOAEL - Lowest Observed Adverse Effects Level
EEQ - Ecological Effects Quotient

TABLE 5-7

TERRESTRIAL FOOD CHAIN MODEL - TIER 2, STEP 3A SCENARIO - EAST TRAP RANGE
INVERTIVOROUS AND HERBIVOROUS RECEPTORS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

	Herbivorous Receptors EEQs				Invertivorous Receptors EEQs			
	Bobwhite Quail		Meadow Vole		Woodcock		Short-Tailed Shrew	
Chemical	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**	**NOAEL-based**	**LOAEL-based**
Polycyclic Aromatic Hydrocarbons								
BENZO(A)ANTHRACENE	2.1E-03	2.1E-04	2.9E-03	4.7E-05	3.4E-02	3.4E-03	7.8E-02	1.3E-03
BENZO(A)PYRENE	3.1E-03	3.1E-04	4.5E-03	7.3E-05	3.8E-02	3.8E-03	8.6E-02	1.4E-03
BENZO(B)FLUORANTHENE	8.1E-03	8.1E-04	1.4E-02	2.2E-04	9.6E-02	9.6E-03	2.2E-01	3.6E-03
BENZO(G,H,I)PERYLENE	3.8E-03	3.8E-04	6.4E-03	1.0E-04	5.1E-02	5.1E-03	1.2E-01	1.9E-03
BENZO(K)FLUORANTHENE	1.6E-03	1.6E-04	2.4E-03	3.8E-05	3.4E-02	3.4E-03	8.0E-02	1.3E-03
CHRYSENE	2.5E-03	2.5E-04	3.3E-03	5.3E-05	5.9E-02	5.9E-03	1.4E-01	2.2E-03
DIBENZO(A,H)ANTHRACENE	1.7E-04	1.7E-05	2.4E-04	3.8E-06	3.4E-03	3.4E-04	7.8E-03	1.3E-04
FLUORANTHENE	8.4E-03	8.4E-04	1.4E-04	2.6E-05	7.6E-02	7.6E-03	1.7E-03	3.1E-04
FLUORENE	1.2E-02	1.2E-03	2.2E-04	4.0E-05	4.0E-03	4.0E-04	9.0E-05	1.7E-05
INDENO(1,2,3-CD)PYRENE	1.7E-03	1.7E-04	2.3E-03	3.7E-05	4.6E-02	4.6E-03	1.1E-01	1.7E-03
PHENANTHRENE	6.5E-03	6.5E-04	1.2E-04	2.1E-05	7.7E-03	7.7E-04	1.7E-04	3.1E-05
PYRENE	1.2E-02	1.2E-03	2.2E-02	3.5E-04	4.6E-02	4.6E-03	1.1E-01	1.7E-03

Cells are shaded if the value is greater than 1.0

NOAEL - No Observed Adverse Effects Level
LOAEL - Lowest Observed Adverse Effects Level
EEQ - Ecological Effects Quotient

6.0 RISK REDUCTION AND MITIGATION

This section presents an evaluation of the steps necessary to reduce human health and ecological risk to acceptable levels. PAHs present human health risk in excess 1 X 10^{-4}. Acceptable risk is within the risk range 1 X 10^{-6} to 1 X 10^{-4}. The MCGs for PAHs are reduction of contaminant concentrations so that the risk from residual contamination in surface and subsurface soils is within the acceptable risk range for residential receptors. Ecological risks from lead were found to be unacceptable in the screening risk assessment. The MCGs for lead are reduction of lead concentrations to below and average of 192 mg/kg with no soils remaining with lead concentration above 652 mg/kg. The discrete areas where PAHs and lead contamination have been delineated in soil are located in different zones within UXO 7. Risk reduction strategies are discussed separately for PAHs and lead in this section.

6.1 PAHS

The risk-based screening level (RBSL) of 1 X 10^{-4} for residential human health exposure is used as the point of departure for evaluating total cancer risks in this assessment. Several PAHs are present. The total risk is presented as BaP equivalents. A discussion of BaP equivalent calculations is included in Appendix C. A RBSL corresponding to a risk level of 1 X 10^{-4} or 1.5 mg/kg, is used to evaluate the total BaP equivalent concentrations for this project. Based on the collected soil samples from the UXO 7 trap ranges and the BaP equivalent concentrations calculated for those soil samples, there is PAH contamination present within the footprints of the former East and West Trap Ranges above the human health screening level of 0.015 mg/kg BaP equivalents. Because the primary screening level of 0.015 mg/kg BaP equivalents for the human health screening level of 1 X 10^{-6} is particularly low (15 parts per billion), many of the soil samples collected from the former trap ranges that contain detectable levels of PAHs exceeded this screening level established for the human health risk level of 1 X 10^{-6}.

However, if all or most of the soil areas with BaP equivalent concentrations greater than the screening level established for the human health risk level of 1 X 10^{-5} (0.15 mg/kg) were removed from the former trap range areas, then the majority of the remaining soil areas should fall somewhere between the projected residential cancer risk levels 1 X 10^{-6} (0.015 mg/kg) and 1 X 10^{-5} (0.15 mg/kg) of BaP equivalents in the remaining trap range soil as shown in the table below.

BaP Equivalent Concentrations in Trap Range Soil Samples	Total Residential Cancer Risk Levels
< 0.015 mg/kg	$< 1 X10^{-6}$
0.015 mg/kg to 0.15 mg/kg	$1 X 10^{-6}$ to $1 X 10^{-5}$
0.15 mg/kg to 1.5 mg/kg	$1 X 10^{-5}$ to $1 X 10^{-4}$
> 1.5 mg/kg	$> 1 X 10^{-4}$

Based on this approach, it is possible to delineate discrete soil areas with higher BaP equivalent concentrations and corresponding higher total residential cancer risks and target those specific soil areas for excavation and removal, which would reduce the overall residential cancer risk for the remaining range soil to levels between the residential cancer risk levels of $1 X 10^{-6}$ (0.015 mg/kg) and $1 X 10^{-5}$ (0.15 mg/kg) based on post-remedial action BaP equivalent concentrations in the former UXO 7 East Trap Range soil.

6.1.1 West Trap Range

The initial RFI sampling at the West Trap Range included samples from locations SB116, SB121, SB122, SB123, SB129, and SB136 and PAHs were detected in the central sector of the suspected maximum skeet fragment area. Supplemental soil sampling for PAHs at the West Trap Range was performed in 2011 and 2012 in the north, south, east, and west portions of the suspected maximum skeet accumulation area to delineate the lateral and vertical extent of BaP equivalent concentrations in soil. **Table 6-1** lists the BaP equivalent results for all samples collected at the UXO 7 West Trap Range during the RFI and the Round 1 and Round 2 supplemental investigations. **Table 6-2** ranks the BaP equivalent results from highest to lowest concentrations for soil samples collected on the West Trap Range.

Figure 3-2 identifies the soil samples with exceedances of the BaP human health screening criteria for the West Trap Range using colors to identify the general magnitudes of the detections. The vast majority of the BaP equivalent contamination identified in soil from the West Trap Range was present in samples collected from the surficial two feet of soil. Six discrete excavation subareas are proposed for excavation (**Figure 6-1**). The largest area (Subarea 1) covers approximately 9,800 square feet within the suspected maximum skeet fragment area and extends to a depth of one foot (approximately 363 cubic yards of soil for removal). Five other smaller removal areas (Subareas 2 through 6) are located inside the larger excavation and will extend down one additional foot to address deeper soil contamination. These smaller areas collectively cover 3,042 square feet (at a depth of one foot below the Subarea 1 excavation) and generate an additional 113 cubic yards of contaminated soil for removal. The excavation subareas are presented on **Figure 6-1** and in **Table F-1** (Appendix F).

The volume of range soil to be removed from the West Trap Range totals approximately 476 cubic yards. **Table 6-3** presents the West Trap Range sample locations with corresponding BaP concentrations remaining after removal actions. Subareas of soil with cancer risk levels in excess of 1 X 10^{-4} and areas of soil with cancer risk levels between 1 X 10^{-5} to 1 X 10^{-4} are proposed for removal. **Table 6-4** presents the upper confidence level (UCL) calculations with a 95 percent confidence level for the BaP equivalent concentrations in the West Trap Range soil. Before removal the 95% UCL for the BaP equivalent concentrations in the West Trap Range soil is 5.42 mg/kg (1.5 mg/kg BaP concentration for residential human receptor is equivalent to a cancer risk level of 1 X 10^{-4}). With the removal of the soil identified in the six removal areas, the 95% UCL for the BaP equivalent concentrations in the West Trap Range soil is reduced to 0.02 mg/kg, which is well within the acceptable risk range.

6.1.2 East Trap Range

The initial RFI sampling at the West Trap Range included samples SB071 and SB075 where PAHs were detected in the south central and northwestern sectors of the maximum suspected skeet fragment area. Additional supplemental soil sampling for PAHs at the East Trap Range was performed during 2011 and 2012 in the north, south, east, and west portions of the suspected maximum skeet accumulation area to delineate the lateral and vertical extent of BaP equivalent concentrations in soil. **Table 6-5** lists the BaP equivalent results for all samples collected at the UXO 7 East Trap Range during the RFI and the Round 1 and Round 2 supplemental investigations. **Table 6-6** ranks the BaP equivalent results from highest to lowest concentrations for soil samples collected on the East Trap Range.

Figure 3-4 identifies the soil samples with exceedances of the BaP human health screening criteria for the East Trap Range using colors to identify the general magnitudes of the detections. With only limited exceptions, the majority of the BaP equivalent contamination identified in soil from the East Trap Range was present in samples collected from the surficial two feet of soil. Seven discrete excavation subareas are proposed to address excess cancer risk to future residential human health receptors (**Figure 6-2**). The largest area (Subarea 6) covers approximately 2,900 square feet within the suspected maximum skeet fragment area and extends to a depth of two feet (approximately 212 cubic yards of soil for removal). One other smaller removal area (Subarea 7) is physically located inside this larger excavation and will extend down 4 additional feet to address deeper soil contamination (at a total depth of 6 feet bgs). This smaller area (Subarea 7) collectively covers 400 square feet (and at a depth of four more feet below the Area 6 excavation) generates an additional 60 cubic yards of contaminated soil for removal. Areas 1, 2, 3, 4, and 5 in the north central area of the East Trap Range cover approximately 4,563 square feet and while each subarea has a special excavation depth (identified on **Figure 6-2**), these northern

areas will produce an estimated 367 cubic yards of excavated soil. These excavation areas are presented on **Figure 6-2** and in **Table F-2** (Appendix F).

The volume of range soil to be removed from the East Trap Range totals approximately 640 cubic yards. **Table 6-7** presents the East Trap Range sample locations with corresponding BaP concentrations remaining after removal actions. Areas of soil with cancer risk levels in excess of 1 X 10^{-4} and areas of soil with cancer risk levels between 1 X 10^{-5} to 1 X 10^{-4} are proposed for removal.

Table 6-8 presents the upper confidence level (UCL) with a 95 percent confidence level for the BaP equivalent concentrations in the East Trap Range soil. Before removal the 95% UCL for the BaP equivalent concentrations in the East Trap Range soil is 1.96 mg/kg (1.5 mg/kg BaP concentration for residential human receptor is equivalent to a cancer risk level of 1 X 10^{-4}). With the removal of the soil identified in the seven removal areas, the 95% UCL for the BaP equivalent concentrations in the East Trap Range soil is reduced to 0.025 mg/kg, and is closer to the 0.015 mg/kg concentration which correlates to the residential human receptor cancer risk of 1 X 10^{-6}.

6.2 LEAD

Per an e-mail from Mr. Peter Ramanauskas, dated June 24, 2011, the EPA agreed upon a MCG of a concentration of 192 mg/kg as an acceptable benchmark to be applied as a site-wide arithmetic average soil lead concentration in the surface soil (0 to 2-feet bgs) for UXO 7. Additionally, a sample-specific lead concentration of 652 mg/kg was determined as the maximum allowable lead concentration to remain within the surface soil at the site while still meeting the 192 mg/kg lead concentration benchmark. Lead concentrations greater than the Navy/EPA agreed upon average concentration of 192 mg/kg, and the sample-specific lead concentration of 652 mg/kg in the surface soil remain in the northern zone of UXO 7. Specifically, these areas include the Northernmost Area, the Central Area, and the Southernmost Area, as presented on **Figure 2-3**, **Figure 2-4**, and **Figure 2-5**, respectively. Lead concentrations in deeper soil (greater than 2 feet bgs) are not regarded as biologically available to ecological receptors, but could serve as potential exposure sources to future human receptors for construction workers, etc. Consequently, deeper subsurface soil samples (below 2 feet bgs) were compared against the direct contact human health lead criteria of 400 mg/kg.

6.2.1 Northernmost Area of Northern Zone

The initial RFI sampling within the Northernmost Area of the Northern Zone which is located between the 400- and 500-yard firing berms, included samples from seven locations at a depth of 2-feet bgs. Of the initial seven samples, one location (SB055) presented a lead detection greater than 652 mg/kg. This

sample location, along with location SB174 presented lead concentrations in excess of the residential direct-contact screening criteria of 400 mg/kg. In an attempt to define the horizontal and vertical extent of the lead contamination, supplemental soil sampling was performed in 2011 and 2012. **Table 6-9** presents the lead results for all samples collected within the Northernmost Area and **Table 6-10** ranks those lead results based on lead concentrations for soil samples collected within the Northernmost Area. As shown in **Table 6-10**, the Northernmost Area overall average concentration of lead prior to any proposed soil excavation is 151 mg/kg with only three samples exceeding the sample-specific lead concentration of 652 mg/kg.

Figure 3-6 identifies the soil samples with exceedances of the lead human health and ecological screening criteria for the Northernmost Area using colors to identify the range of detections. The lead contamination within the Northernmost Area is mostly confined to the southwest portion of the site with the contamination limited to the upper 2-feet of soil. Two discrete excavation subareas are proposed to address the main risks to ecological receptors. Subarea 1 covers approximately 251 square feet to a depth of two feet bgs (approximately 19 cubic yards of soil). The excavation subarea is presented on **Figure 6-3**. Subarea 2 covers approximately 100 square feet to a depth of one foot bgs (approximately 4 cubic yards). This subarea, as shown on **Figure 6-3**, includes sample location SB569 which exhibited a lead concentration of 661 mg/kg at the 0 to 1-foot depth bgs.

The volume of range soil to be removed from the Northernmost Area to achieve reductions in risk to ecological receptors totals approximately 23 cubic yards. Upon removal of the two proposed excavation subareas and backfilled with clean soil, the overall average lead concentration within the Northernmost Area drops from 151 mg/kg to 80 mg/kg as presented in **Table 6-10**. Additionally, no sample-specific lead concentrations greater than 652 mg/kg would remain at the site.

6.2.2 Central Area

The initial RFI sampling within the Central Area of the Northern Zone, which consists of the 400-yard firing berm and surrounding area, included samples from 12 locations at a depth of 2-feet bgs. Of the initial 12 samples, one location (SB046) presented a lead detection greater than 652 mg/kg. This sample location was the only location which exhibited a lead concentration in excess of the residential direct-contact screening criteria of 400 mg/kg. In an attempt to define the horizontal and vertical extent of the lead contamination, supplemental soil sampling was performed in 2011 and 2012. **Table 6-11** presents the lead results for all samples collected within the Central Area of the Northern Zone of the Rifle Range, and **Table 6-12** ranks those lead results based on lead concentrations for soil samples collected within the Central Area. As shown in **Table 6-12**, the Central Area overall average concentration of lead prior to

any proposed soil excavation is 401 mg/kg. Numerous samples within the Central Area exhibited sample-specific lead concentrations greater than 652 mg/kg.

Figure 3-8 identifies the soil samples with exceedances of the lead human health and ecological screening criteria for the Central Area using colors to identify the range of detections. The lead contamination within the Central Area is mostly located on the southern face of the 400-yard firing berm as well as in the area located just to the west and southwest of the berm. Numerous bullets and bullet fragments were observed in the area just west and southwest of the firing berm. The lead contamination was found at various depths throughout the site. Ten discrete excavation subareas are proposed to address the main risks to ecological receptors. Following is a discussion of each of these subareas:

- The largest area is subarea 1 which covers the majority of the southern face of the 400-yard firing berm. Subarea 1 covers approximately 6,141 square feet to a depth of five feet bgs (approximately 1,137 cubic yards of soil). The excavation subarea is presented on **Figure 6-4**. Numerous site-specific samples in Subarea 1 exceeded a concentration of 652 mg/kg lead at various depths (**Table 6-12**).

- Subareas 2 and 3 each cover approximately 100 square feet to a depth of two feet bgs (approximately 7 cubic yards per subarea). These subareas, as shown on **Figure 6-4**, are located just to the south and southeast of the firing berm and include sample locations SB662 and SB660, respectively, which both exhibited sample-specific lead concentrations greater than 652 mg/kg. Sample location SB662 had a lead concentration of 779 mg/kg at the 0 to 1-foot depth bgs, while sample location SB660 had a lead concentration of 1,921 mg/kg at the 1 to 2-foot depth bgs.

- Subarea 4 covers approximately 1,891 square feet to a depth of four feet bgs (approximately 280 cubic yards). This subarea, as shown on **Figure 6-4**, is located along the southwest corner of the firing berm. Subarea 4 includes numerous site-specific samples that exceed a lead concentration of 652 mg/kg at various depths (**Table 6-12**).

- Subarea 5 covers approximately 2,916 square feet to a depth of five feet bgs (approximately 540 cubic yards). This subarea, as shown on **Figure 6-4**, is located to the west and southwest of the firing berm. Subarea 5 includes numerous site-specific samples that exceed a lead concentration of 652 mg/kg at various depths (**Table 6-12**).

- Subarea 6 covers approximately 4,067 square feet to a depth of two feet bgs (approximately 301 cubic yards). This subarea, as shown on **Figure 6-4**, is located to the west of the firing berm and

includes the area where the majority of bullets and bullet fragments were observed in the surface soil. Subarea 6 includes seven sample locations of which five contained site-specific samples that exceed 652 mg/kg at depths ranging from the ground surface down to 2-feet bgs (**Table 6-12**).

- Subareas 7, 9, and 10 each cover approximately 100 square feet to depths of two feet bgs for subareas 7 and 10 (approximately 7 cubic yards each) and 3-feet bgs for subarea 9 (approximately 11 cubic yards). These subareas, as shown on **Figure 6-4**, are located to the north and northwest of the firing berm and include sample locations SB692 (subarea 7), SB44 (subarea 9), and SB696 (subarea 10). All three subareas exhibited a sample-specific lead concentration greater than 652 mg/kg. Sample location SB692 (subarea 7) had a lead concentration of 1,915 mg/kg at the 0 to 1-foot depth bgs, sample location SB644 (subarea 9) had a lead concentration of 950 mg/kg at the 2 to 3-foot depth bgs, and sample location SB696 had a lead concentration of 853 mg/kg at the 1 to 2-foot depth bgs.

- Subarea 8 covers approximately 1,719 square feet to a depth of two feet bgs (approximately 191 cubic yards). This subarea, as shown on **Figure 6-4**, is located to the northwest of the firing berm. Subarea 8 includes five sample locations of which four contained site-specific samples that exceeded 652 mg/kg at depths ranging from the ground surface down to 3-feet bgs (**Table 6-12**).

The volume of range soil to be removed from the Central Area totals approximately 2,490 cubic yards. Upon removal of the 10 excavation subareas and backfilled with clean soil, the overall average lead concentration within the Central Area drops from 401 mg/kg to 49 mg/kg as presented in **Table 6-12**. Additionally, no sample-specific lead concentrations greater than 652 mg/kg would remain at the site.

6.2.3 Southernmost Area

As previously described, the Southernmost Area of the UXO 7 Northern Zone consists of a dirt mound whose origin is currently unknown. However, it is believed that the dirt mound, which sits upon thick plastic sheeting, was placed in its current location after the Rifle Range ceased operations since the dirt mound obstructs the view of the Rifle Ranges main target area from portions of the 400- and 500-yard firing berms.

The initial RFI sampling within the Southernmost Area of the Northern zone of the Rifle Range, which includes the dirt mound, included samples from six locations along the top of the dirt mound at a depth of 2-feet below the surface. Of the initial six samples, none of them exhibited a lead detection greater than 652 mg/kg, and only one sample (SB039) presented a lead concentration in excess of the residential

direct-contact screening criteria of 400 mg/kg. In an attempt to define the horizontal and vertical extent of the lead contamination, supplemental soil sampling was performed in 2011 and 2012. **Table 6-13** presents the lead results for all samples collected within the Southernmost Area of the Northern Zone and **Table 6-14** ranks the lead results based on lead concentrations for soil samples collected within the Southernmost Area. As shown in **Table 6-13**, the Southernmost Area overall average concentration of lead prior to removal of the dirt mound is 117 mg/kg.

Figure 3-10 identifies the soil samples with exceedances of the lead human health and ecological screening criteria for the Southernmost Area using colors to identify the range of detections. The lead contamination within the Southernmost Area was detected at few locations along the top of the dirt mound with the contamination limited to the upper 3-feet of soil. Since the origin of the dirt mound is unknown and since a few bullets were observed within the dirt mound, along with other metallic debris (i.e. nails, door hinge), the entire mound is proposed for removal (subarea 1). The dirt mound sits upon a layer of thick plastic sheeting covering approximately 1,776 square feet to an average height of six feet above the ground surface (approximately 395 cubic yards of soil). The dirt mound is presented on **Figure 6-5**. Since the entire Southernmost Area (dirt mound) is to be removed, all significant ecological risk will have been mitigated.

TABLE 6-1

PAH CONCENTRATIONS IN SOIL SAMPLES USED FOR BEBZO(a)PYRENE (BaP) EQUIVALENT CALCULATIONS - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

Sample Location	Sample ID	PAH Results (mg/Kg)														BaP equivalent (mg/Kg)
		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		
	West Trap Range															
X7-SB116	X7-SB116-0204	0.0698		0.105		0.132		0.0457		0.0817		0.004995	U	0.0598		0.13669
	X7-SB116-0406	0.004995	U	0.00237		0.00316		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00873
X7-SB121	X7-SB121-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB121-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB123	X7-SB123-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB123-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB203	X7-SB203-0204	0.004995	U	0.00266		0.00355		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00906
	X7-SB203-0406	0.00691		0.00569		0.00854		0.00285		0.00447		0.004995	U	0.00325		0.01259
X7-SB227	X7-SB227-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB227-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB439	X7-SS439-0001	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SS439-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB441	X7-SS441-0001	0.18		0.285		0.402		0.139		0.242		0.0119		0.161		0.37283
	X7-SS441-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB442	X7-SS442-0001	0.081		0.121		0.17		0.0596		0.0971		0.00247		0.0679		0.15605
	X7-SS442-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB443	X7-SS443-0001	0.0289		0.0351		0.0462		0.0206		0.0293		0.004995	U	0.0206		0.04990
	X7-SS443-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB445	X7-SS445-0001	0.0435		0.0435		0.0536		0.0207		0.0467		0.004995	U	0.0227		0.06073
	X7-SS445-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB446	X7-SS446-0001	1.77		2.43		3.17		0.968		2.29		0.004995	U	1.22		3.06297
	X7-SS446-0102	0.0216		0.0326		0.0399		0.0148		0.0254		0.004995	U	0.0209		0.04601
	X7-SB446-0204	0.00646		0.00485		0.00525		0.00283		0.00242		0.00283		0.00485		0.00937
	X7-SB446-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00192		0.004995	U	0.00847
X7-SB447	X7-SS447-0001	0.202		0.28		0.33		0.134		0.232		0.004995	U	0.157		0.35547
	X7-SS447-0102	0.00569		0.00342		0.00379		0.004995	U	0.00228		0.004995	U	0.004995	U	0.00991
X7-SB448	X7-SS448-0001	0.101		0.156		0.197		0.0655		0.126		0.004995	U	0.0793		0.19951
	X7-SS448-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB449	X7-SS449-0001	0.0246		0.0346		0.0458		0.015		0.0279		0.004995	U	0.0225		0.04906
	X7-SS449-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB451	X7-SS451-0001	0.0103		0.0103		0.0141		0.00455		0.00703		0.004995	U	0.00621		0.01841
	X7-SS451-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB453	X7-SS453-0001	0.0112		0.0124		0.016		0.00521		0.01		0.004995	U	0.00682		0.02086
	X7-SS453-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00252		0.004995	U	0.004995	U	0.01154
X7-SB455	X7-SS455-0001	0.0123		0.0135		0.0181		0.00574		0.00944		0.004995	U	0.00862		0.02246
	X7-SS455-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB457	X7-SS457-0001	0.02		0.0285		0.0369		0.0131		0.0219		0.004995	U	0.0192		0.04126
	X7-SS457-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB459	X7-SS459-0001	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SS459-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB460	X7-SS460-0001	0.0689		0.0834		0.136		0.0373		0.0677		0.004995	U	0.0485		0.11418
	X7-SS460-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999

TABLE 6-1

PAH CONCENTRATIONS IN SOIL SAMPLES USED FOR BEBZO(a)PYRENE (BaP) EQUIVALENT CALCULATIONS - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

Sample Location	Sample ID	PAH Results (mg/Kg)														BaP equivalent (mg/Kg)
		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		
X7-SB462	X7-SS462-0001	0.0417		0.0506		0.0806		0.0264		0.057		0.04995	U	0.0311		0.11621
	X7-SS462-0102	0.00513		0.00257		0.0033		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00896
	X7-SB462-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB462-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB463	X7-SS463-0001	13.1		17.2		23.3		6.91		18.3		0.004995	U	8.84		21.81640
	X7-SS463-0102	0.0207		0.0267		0.0413		0.0109		0.0203		0.00495	U	0.0195		0.03993
	X7-SB463-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB463-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB464	X7-SS464-0001	1.21		1.47		1.97		0.651		1.45		0.004995	U	0.797		1.88066
	X7-SS464-0102	0.158		0.228		0.324		0.0972		0.204		0.004955	U	0.135		0.29583
	X7-SB464-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB464-0406	0.00998		0.00799		0.0112		0.00399		0.00599		0.004995	U	0.00639		0.01579
X7-SB465	X7-SS465-0001	0.119		0.16		0.25		0.0667		0.146		0.004995	U	0.0951		0.21222
	X7-SS465-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB466	X7-SS466-0001	0.0586		0.0964		0.141		0.0382		0.0821		0.004995	U	0.0617		0.12799
	X7-SS466-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB469	X7-SS469-0001	0.341		0.451		0.579		0.202		0.425		0.00611		0.211		0.57266
	X7-SS469-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB470	X7-SS470-0001	1.3		1.85		2.33		0.697		1.51		0.0237		0.88		2.33318
	X7-SS470-0102	0.0255		0.0332		0.0441		0.0158		0.0274		0.004995	U	0.0178		0.04712
X7-SB471	X7-SS471-0001	0.127		0.18		0.256		0.0761		0.161		0.004995	U	0.105		0.23472
	X7-SS471-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB472	X7-SS472-0001	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SS472-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
FIELD DUP	FD090712-01	0.0598		0.0866		0.122		0.0391		0.0751		0.004995	U	0.0521		0.11545
FIELD DUP	FD090712-02	0.054		0.0738		0.105		0.0346		0.0651		0.004995	U	0.0416		0.09927

Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentrations in range soil samples (mg/kg)	Total Cancer Risk Level
	< 0.015 mg/kg	$< 10^{-6}$
	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
	> 1.5 mg/kg	$> 10^{-4}$

TABLE 6-2

RANKED BaP EQUIVALEBT CONCENTRATIONS - SOIL REMOVAL SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS201-0001	85.2068	Round 1	Yes	3
X7-SS214-0001	35.0757	Round 1	Yes	1
X7-SS463-0001	21.816395	Round 2A	Yes	6
X7-SB121-0002	11.2544	Round 1	Yes	5
X7-SS232-0001	9.0937	Round 1	Yes	1
X7-SS229-0001	5.4938	Round 1	Yes	1
X7-SS446-0001	3.062965	Round 2A	Yes	2
X7-SS203-0001	2.3358	Round 1	Yes	3
X7-SS470-0001	2.33318	Round 2B	Yes	1
X7-SB123-0002	2.2173	Round 1	Yes	3
X7-SS464-0001	1.880655	Round 2A	Yes	6
X7-SS211-0001	1.7173	Round 1	Yes	1
X7-SS217-0001	1.4685	Round 1	Yes	1
X7-SS218-0001	1.4477	Round 1	Yes	1
X7-SS208-0001	1.3137	Round 1	Yes	1
X7-SB116-00002	1.2016	Round 1	Yes	3
X7-SS202-0001	0.8697	Round 1	Yes	3
X7-SS241-0001	0.6665	Round 1	Yes	2
X7-SS207-0001	0.6108	Round 1	Yes	3
X7-SS469-0001	0.572655	Round 2B	Yes	1
X7-SS210-0001	0.4863	Round 1	Yes	1
X7-SS441-0001	0.372832	Round 2B	Yes	1
X7-SS447-0001	0.355467	Round 2A	Yes	1
X7-SS226-0001	0.2964	Round 1	Yes	1
X7-SS464-0102	0.295831	Round 2A	Yes	6
X7-SS230-0001	0.2924	Round 1	Yes	1
X7-SS204-0001	0.2854	Round 1	Yes	3
X7-SS220-0001	0.2844	Round 1	Yes	1
X7-SS209-0001	0.2545	Round 1	Yes	3
X7-SS222-0001	0.2461	Round 1	Yes	2
X7-SS471-0001	0.234717	Round 2A	Yes	1
X7-SS465-0001	0.212218	Round 2A	Yes	1
X7-SS448-0001	0.199506	Round 2A	Yes	1
X7-SS203-0102	0.1940	Round 1	Yes	3
X7-SS227-0001	0.1679	Round 1	Yes	4
X7-SS442-0001	0.1560531	Round 2B	Yes	1

TABLE 6-2

RANKED BaP EQUIVALEBT CONCENTRATIONS - SOIL REMOVAL SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS234-0001	0.1377	Round 1	No	--
X7-SB116-0204	0.1367	Round 2A	No	3
X7-SS233-0001	0.1361	Round 1	Yes	1
X7-SS219-0001	0.1290	Round 1	Yes	1
X7-SS466-0001	0.1279891	Round 2A	No	--
X7-SS228-0001	0.1189	Round 1	Yes	1
X7-SS462-0001	0.116211	Round 2A	Yes	6
X7-SS460-0001	0.1141757	Round 2A	No	--
X7-SS129-0002	0.1115	Round 1	(Partial)	1
X7-SS223-0001	0.1068	Round 1	Yes	1
X7-SS240-0001	0.0726	Round 1	No	--
X7-SS200-0001	0.0707	Round 1	No	--
X7-SS445-0001	0.0607287	Round 2A	Yes	2
X7-SS225-0001	0.0563	Round 1	No	--
X7-SS443-0001	0.0499003	Round 2B	Yes	1
X7-SS217-0102	0.0498	Round 1	No	1
X7-SS449-0001	0.0490629	Round 2A	No	--
X7-SS470-0102	0.0471204	Round 2B	No	1
X7-SS446-0102	0.0460084	Round 2A	Yes	2
X7-SS457-0001	0.0412579	Round 2A	No	--
X7-SS463-0102	0.0399293	Round 2A	Yes	6
X7-SS205-0001	0.0330	Round 1	Yes	1
X7-SS241-0102	0.0328	Round 1	Yes	2
X7-SS213-0001	0.0300	Round 1	Yes	1
X7-SS234-0102	0.0285	Round 1	No	--
X7-SS200-0002	0.0254	Round 1	No	--
X7-SS455-0001	0.02246384	Round 2A	No	--
X7-SS224-0001	0.0211	Round 1	No	--
X7-SS453-0001	0.0208591	Round 2A	No	--
X7-SS451-0001	0.01840853	Round 2A	No	--
X7-SS122-0002	0.0181	Round 1	(Partial)	1
X7-SS209-0102	0.0169	Round 1	Yes	3
X7-SS238-0001	0.0163	Round 1	No	--
X7-SS230-0102	0.0161	Round 1	No	1
X7-SB464-0406	0.01587	Round 2A	No	6
X7-SS239-0001	0.0144	Round 1	No	--

TABLE 6-2

RANKED BaP EQUIVALEBT CONCENTRATIONS - SOIL REMOVAL SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS211-0102	0.0133	Round 1	No	1
X7-SS228-0102	0.0129	Round 1	No	1
X7-SB203-0406	0.0126	Round 2A	No	3
X7-SS453-0102	0.01154097	Round 2A	No	--
X7-SS208-0102	0.0111	Round 1	No	1
X7-SS220-0102	0.0100	Round 1	No	1
X7-SB121-0204	0.0100	Round 2A	No	5
X7-SB121-0406	0.0100	Round 2A	No	5
X7-SB123-0204	0.0100	Round 2A	No	3
X7-SB123-0406	0.0100	Round 2A	No	3
X7-SB227-0204	0.00999	Round 2A	No	4
X7-SB227-0406	0.00999	Round 2A	No	4
X7-SS439-0001	0.00999	Round 2A	No	--
X7-SS439-0102	0.00999	Round 2A	No	--
X7-SS441-0102	0.00999	Round 2B	No	1
X7-SS442-0102	0.00999	Round 2B	No	1
X7-SS443-0102	0.00999	Round 2B	No	1
X7-SS445-0102	0.00999	Round 2A	Yes	2
X7-SS448-0102	0.00999	Round 2A	No	1
X7-SS449-0102	0.00999	Round 2A	No	--
X7-SS451-0102	0.00999	Round 2A	No	--
X7-SS455-0102	0.00999	Round 2A	No	--
X7-SS457-0102	0.00999	Round 2A	No	--
X7-SS459-0001	0.00999	Round 2A	No	--
X7-SS459-0102	0.00999	Round 2A	No	--
X7-SS460-0102	0.00999	Round 2A	No	--
X7-SB462-0204	0.00999	Round 2A	No	6
X7-SB462-0406	0.00999	Round 2A	No	6
X7-SB463-0204	0.00999	Round 2A	No	6
X7-SB463-0406	0.00999	Round 2A	No	6
X7-SB464-0204	0.00999	Round 2A	No	6
X7-SS465-0102	0.00999	Round 2A	No	1
X7-SS466-0102	0.00999	Round 2A	No	--
X7-SS469-0102	0.00999	Round 2B	No	1
X7-SS471-0102	0.00999	Round 2A	No	1
X7-SS472-0001	0.00999	Round 2B	No	--
X7-SS472-0102	0.00999	Round 2B	No	--

TABLE 6-2

RANKED BaP EQUIVALEBT CONCENTRATIONS - SOIL REMOVAL SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS231-0001	0.0100	Round 1	Yes	1
X7-SS447-0102	0.00991473	Round 2A	No	1
X7-SS210-0102	0.0099	Round 1	No	1
X7-SS207-0102	0.0095	Round 1	Yes	3
X7-SB446-0204	0.00936672	Round 2A	No	2
X7-SS222-0102	0.0093	Round 1	Yes	2
X7-SS218-0102	0.0092	Round 1	No	1
X7-SB203-0204	0.0091	Round 2A	No	3
X7-SS462-0102	0.008962445	Round 2A	Yes	6
X7-SB116-0406	0.0087	Round 2A	No	3
X7-SS229-0102	0.0087	Round 1	No	1
X7-SB446-0406	0.008468445	Round 2A	No	2
X7-SS237-0001	0.0082	Round 1	No	--
X7-SS202-0102	0.0080	Round 1	Yes	3
X7-SS206-0102	0.0069	Round 1	No	--
X7-SS201-0102	0.0068	Round 1	Yes	3
X7-SS223-0102	0.0063	Round 1	No	1
X7-SS240-0102	0.0061	Round 1	No	--
X7-SS215-0001	0.0055	Round 1	No	--
X7-SS205-0102	0.0055	Round 1	No	1
X7-SS212-0001	0.0048	Round 1	Yes	1
X7-SS221-0001	0.0047	Round 1	Yes	1
X7-SS225-0102	0.0046	Round 1	No	--
X7-SS232-0102	0.0045	Round 1	No	1
X7-SS216-0001	0.0043	Round 1	No	--
X7-SS206-0001	0.0043	Round 1	No	--
X7-SS215-0102	0.0042	Round 1	No	--
X7-SS212-0102	0.0041	Round 1	No	1
X7-SS216-0102	0.0040	Round 1	No	--
X7-SS213-0102	0.0040	Round 1	No	1
X7-SS221-0102	0.0040	Round 1	No	1
X7-SS204-0102	0.0040	Round 1	Yes	3
X7-SS226-0102	0.0039	Round 1	No	1
X7-SS219-0102	0.0039	Round 1	No	1
X7-SS233-0102	0.0038	Round 1	No	1

TABLE 6-2

RANKED BaP EQUIVALEBT CONCENTRATIONS - SOIL REMOVAL SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS214-0102	0.0037	Round 1	No	1
X7-SS136-0002	0.0010	Round 1	No	--

Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentrations in range soil samples (mg/kg)	Total Cancer Risk Level
🟢	< 0.015 mg/kg	$< 10^{-6}$
🟡	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
🟠	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
🔴	> 1.5 mg/kg	$> 10^{-4}$

TABLE 6-3

POST-REMOVAL ACTION BaP EQUIVALENT SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS234-0001	0.1377	Round 1	No	--
X7-SB116-0204	0.1367	Round 2A	No	3
X7-SS466-0001	0.1279891	Round 2A	No	--
X7-SS460-0001	0.1141757	Round 2A	No	--
X7-SS129-0002	0.1115	Round 1	(Partial)	1
X7-SS240-0001	0.0726	Round 1	No	--
X7-SS200-0001	0.0707	Round 1	No	--
X7-SS225-0001	0.0563	Round 1	No	--
X7-SS217-0102	0.0498	Round 1	No	1
X7-SS449-0001	0.0490629	Round 2A	No	--
X7-SS470-0102	0.0471204	Round 2B	No	1
X7-SS457-0001	0.0412579	Round 2A	No	--
X7-SS234-0102	0.0285	Round 1	No	--
X7-SS200-0002	0.0254	Round 1	No	--
X7-SS455-0001	0.02246384	Round 2A	No	--
X7-SS224-0001	0.0211	Round 1	No	--
X7-SS453-0001	0.0208591	Round 2A	No	--
X7-SS451-0001	0.01840853	Round 2A	No	--
X7-SS122-0002	0.0181	Round 1	(Partial)	1
X7-SS238-0001	0.0163	Round 1	No	--
X7-SS230-0102	0.0161	Round 1	No	1
X7-SB464-0406	0.01587	Round 2A	No	6
X7-SS239-0001	0.0144	Round 1	No	--
X7-SS211-0102	0.0133	Round 1	No	1
X7-SS228-0102	0.0129	Round 1	No	1
X7-SB203-0406	0.0126	Round 2A	No	3
X7-SS453-0102	0.01154097	Round 2A	No	--
X7-SS208-0102	0.0111	Round 1	No	1
X7-SS220-0102	0.0100	Round 1	No	1
X7-SB121-0204	0.0100	Round 2A	No	5
X7-SB121-0406	0.0100	Round 2A	No	5
X7-SB123-0204	0.0100	Round 2A	No	3
X7-SB123-0406	0.0100	Round 2A	No	3
X7-SB227-0204	0.00999	Round 2A	No	4
X7-SB227-0406	0.00999	Round 2A	No	4
X7-SS439-0001	0.00999	Round 2A	No	--

TABLE 6-3

POST-REMOVAL ACTION BaP EQUIVALENT SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS439-0102	0.00999	Round 2A	No	--
X7-SS441-0102	0.00999	Round 2B	No	1
X7-SS442-0102	0.00999	Round 2B	No	1
X7-SS443-0102	0.00999	Round 2B	No	1
X7-SS448-0102	0.00999	Round 2A	No	1
X7-SS449-0102	0.00999	Round 2A	No	--
X7-SS451-0102	0.00999	Round 2A	No	--
X7-SS455-0102	0.00999	Round 2A	No	--
X7-SS457-0102	0.00999	Round 2A	No	--
X7-SS459-0001	0.00999	Round 2A	No	--
X7-SS459-0102	0.00999	Round 2A	No	--
X7-SS460-0102	0.00999	Round 2A	No	--
X7-SB462-0204	0.00999	Round 2A	No	6
X7-SB462-0406	0.00999	Round 2A	No	6
X7-SB463-0204	0.00999	Round 2A	No	6
X7-SB463-0406	0.00999	Round 2A	No	6
X7-SB464-0204	0.00999	Round 2A	No	6
X7-SS465-0102	0.00999	Round 2A	No	1
X7-SS466-0102	0.00999	Round 2A	No	--
X7-SS469-0102	0.00999	Round 2B	No	1
X7-SS471-0102	0.00999	Round 2A	No	1
X7-SS472-0001	0.00999	Round 2B	No	--
X7-SS472-0102	0.00999	Round 2B	No	--
X7-SS447-0102	0.00991473	Round 2A	No	1
X7-SS210-0102	0.0099	Round 1	No	1
X7-SB446-0204	0.00936672	Round 2A	No	2
X7-SS218-0102	0.0092	Round 1	No	1
X7-SB203-0204	0.0091	Round 2A	No	3
X7-SB116-0406	0.0087	Round 2A	No	3
X7-SS229-0102	0.0087	Round 1	No	1
X7-SB446-0406	0.008468445	Round 2A	No	2
X7-SS237-0001	0.0082	Round 1	No	--
X7-SS206-0102	0.0069	Round 1	No	--
X7-SS223-0102	0.0063	Round 1	No	1
X7-SS240-0102	0.0061	Round 1	No	--
X7-SS215-0001	0.0055	Round 1	No	--
X7-SS205-0102	0.0055	Round 1	No	1
X7-SS225-0102	0.0046	Round 1	No	--

TABLE 6-3

POST-REMOVAL ACTION BaP EQUIVALENT SUMMARY - WEST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

West Trap Range	BaP equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS232-0102	0.0045	Round 1	No	1
X7-SS216-0001	0.0043	Round 1	No	--
X7-SS206-0001	0.0043	Round 1	No	--
X7-SS215-0102	0.0042	Round 1	No	--
X7-SS212-0102	0.0041	Round 1	No	1
X7-SS216-0102	0.0040	Round 1	No	--
X7-SS213-0102	0.0040	Round 1	No	1
X7-SS221-0102	0.0040	Round 1	No	1
X7-SS226-0102	0.0039	Round 1	No	1
X7-SS219-0102	0.0039	Round 1	No	1
X7-SS233-0102	0.0038	Round 1	No	1
X7-SS214-0102	0.0037	Round 1	No	1
X7-SS136-0002	0.0010	Round 1	No	--

Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentrations in range soil samples (mg/kg)	Total Cancer Risk Level
🟢	< 0.015 mg/kg	$< 10^{-6}$
🟡	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
🟠	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
🔴	> 1.5 mg/kg	$> 10^{-4}$

TABLE 6-4

ProUCL STATISTICS - COMPARISON OF BaP EQUIVALENTS: CURRENT AND POST-REMOVAL CONDITIONS - WEST TRAP RANGE
UXO 7 RANGES
NSA CRANE, INDIANA

	General UCL Statistics for Data Sets with Non-Detects		
User Selected Options			
From File	C:\Work Folders\Projects\Crane\UXO 7\West Trap Range.xls.wst		
Full Precision	OFF		
Confidence Coefficient	95%		
Number of Bootstrap Operations	2000		
Bap_Eq			
General Statistics			
Number of Valid Data	146	Number of Detected Data	126
Number of Distinct Detected Data	115	Number of Non-Detect Data	20
		Percent Non-Detects	13.70%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.001	Minimum Detected	-6.908
Maximum Detected	85.21	Maximum Detected	4.445
Mean of Detected	1.56	Mean of Detected	-3.01
SD of Detected	8.458	SD of Detected	2.296
Minimum Non-Detect	0.00999	Minimum Non-Detect	-4.606
Maximum Non-Detect	0.00999	Maximum Non-Detect	-4.606
UCL Statistics			
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.427	Lilliefors Test Statistic	0.15
5% Lilliefors Critical Value	0.0789	5% Lilliefors Critical Value	0.0789
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.347	Mean	-3.324
SD	7.871	SD	2.273
95% DL/2 (t) UCL	2.425	95% H-Stat (DL/2) UCL	0.946
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.36
		SD in Log Scale	2.343
		Mean in Original Scale	1.347
		SD in Original Scale	7.871
		95% t UCL	2.425
		95% Percentile Bootstrap UCL	2.488
		95% BCA Bootstrap UCL	3.285
		95% H-UCL	1.112
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.211	Data do not follow a Discernable Distribution (0.05)	
Theta Star	7.376		
nu star	53.29		
A-D Test Statistic	16.62	Nonparametric Statistics	
5% A-D Critical Value	0.908	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.908	Mean	1.347
5% K-S Critical Value	0.0914	SD	7.844
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.652
		95% KM (t) UCL	2.426
Assuming Gamma Distribution		95% KM (z) UCL	2.419
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	2.425
Minimum	0.000001	95% KM (bootstrap t) UCL	5.094
Maximum	85.21	95% KM (BCA) UCL	2.631
Mean	1.346	95% KM (Percentile Bootstrap) UCL	2.486
Median	0.0131	95% KM (Chebyshev) UCL	4.188
SD	7.871	97.5% KM (Chebyshev) UCL	5.417

TABLE 6-4

ProUCL STATISTICS - COMPARISON OF BaP EQUIVALENTS: CURRENT AND POST-REMOVAL CONDITIONS - WEST TRAP RANGE
UXO 7 RANGES
NSA CRANE, INDIANA

k star	0.16	99% KM (Chebyshev) UCL	7.832
Theta star	8.39		
Nu star	46.85	**Potential UCLs to Use**	
AppChi2	32.14	97.5% KM (Chebyshev) UCL	5.417
95% Gamma Approximate UCL (Use when n >= 40)	1.962		
95% Adjusted Gamma UCL (Use when n < 40)	1.969		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Ex_Bap_Eq

General Statistics

Number of Valid Data	146	Number of Detected Data	126
Number of Distinct Detected Data	56	Number of Non-Detect Data	20
		Percent Non-Detects	13.70%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.001	Minimum Detected	-6.908
Maximum Detected	0.138	Maximum Detected	-1.982
Mean of Detected	0.0187	Mean of Detected	-4.314
SD of Detected	0.023	SD of Detected	0.737
Minimum Non-Detect	0.00999	Minimum Non-Detect	-4.606
Maximum Non-Detect	0.015	Maximum Non-Detect	-4.2
Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	66
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	80
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	45.21%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Lilliefors Test Statistic	0.405	Lilliefors Test Statistic	0.28
5% Lilliefors Critical Value	0.0789	5% Lilliefors Critical Value	0.0789
Data not Normal at 5% Significance Level		**Data not Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0168	Mean	-4.446
SD	0.0219	SD	0.762
95% DL/2 (t) UCL	0.0198	95% H-Stat (DL/2) UCL	0.0178
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	0.0086	Mean in Log Scale	-4.438
SD	0.0296	SD in Log Scale	0.762
95% MLE (t) UCL	0.0127	Mean in Original Scale	0.0169
95% MLE (Tiku) UCL	0.0135	SD in Original Scale	0.0218
		95% t UCL	0.0199
		95% Percentile Bootstrap UCL	0.02
		95% BCA Bootstrap UCL	0.0206
		95% H UCL	0.0179
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	1.618	**Data do not follow a Discernable Distribution (0.05)**	
Theta Star	0.0115		
nu star	407.8		
A-D Test Statistic	12.45	**Nonparametric Statistics**	
5% A-D Critical Value	0.769	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.769	Mean	0.0169
5% K-S Critical Value	0.0841	SD	0.0218
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.00181
		95% KM (t) UCL	0.0199

TABLE 6-4

ProUCL STATISTICS - COMPARISON OF BaP EQUIVALENTS: CURRENT AND POST-REMOVAL CONDITIONS - WEST TRAP RANGE
UXO 7 RANGES
NSA CRANE, INDIANA

Assuming Gamma Distribution		95% KM (z) UCL	0.0199
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.0199
Minimum	0.000001	95% KM (bootstrap t) UCL	0.0211
Maximum	0.138	95% KM (BCA) UCL	0.02
Mean	0.0165	95% KM (Percentile Bootstrap) UCL	0.0198
Median	0.015	95% KM (Chebyshev) UCL	0.0248
SD	0.0221	97.5% KM (Chebyshev) UCL	0.0282
k star	0.709	99% KM (Chebyshev) UCL	0.0349
Theta star	0.0233		
Nu star	206.9	Potential UCLs to Use	
AppChi2	174.7	95% KM (BCA) UCL	0.02
95% Gamma Approximate UCL (Use when n >= 40)	0.0196		
95% Adjusted Gamma UCL (Use when n < 40)	0.0196		
Note: DL/2 is not a recommended method.			

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

TABLE 6-5

PAH CONCENTRATIONS IN SOIL SAMPLES USED FOR BENZO(a)PYRENE (BaP) EQUIVALENT CALCULATIONS - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

Sample Location	Sample ID	PAH Results (mg/Kg)														BaP equivalent (mg/Kg)
		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		
	East Trap Range															
X7-SB075	X7-SB075-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB075-0406	0.004995	U	0.00198		0.00238		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00827
X7-SB242	X7-SB242-0204	0.0326		0.0427		0.0505		0.0199		0.0334		0.004995	U	0.0256		0.05880
	X7-SB242-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB243	X7-SB243-0204	10.3		14.7		18.4		6.16		12.6		0.004995	U	7.92		18.44120
	X7-SB243-0406	0.0471		0.0649		0.0843		0.0289		0.057		0.00495	U	0.0368		0.08702
X7-SB247	X7-SB247-0204	0.004995	U	0.00289		0.00289		0.004995	U	0.004995	U	0.00217		0.00325		0.00623
	X7-SB247-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB254	X7-SB254-0204	0.0417		0.058		0.0731		0.0244		0.0517		0.004995	U	0.0369		0.07846
	X7-SB254-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB255	X7-SB255-0001	1.12		1.22		1.58		0.689		1.21		0.16		0.795		1.73760
	X7-SB255-0102	5.88		6.55		8.08		3.2		7.1		1.03		4.7		9.48510
	X7-SB255-0204	0.729		1.18		1.45		0.467		0.964		0.004995	U	0.72		1.48053
	X7-SB255-0406	0.004995	U	0.00257		0.00343		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00896
X7-SB256	X7-SB256-0204	0.144		0.218		0.281		0.08		0.18		0.004995	U	0.138		0.28028
	X7-SB256-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB261	X7-SB261-0204	0.004995	U	0.00189		0.00227		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00817
	X7-SB261-0406	0.0193		0.0225		0.0278		0.00966		0.0181		0.004995	U	0.0137		0.03369
X7-SB491	X7-SS491-0001	0.00995		0.00875		0.0119		0.00398		0.00637		0.004995	U	0.00517		0.01649
	X7-SS491-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB492	X7-SS492-0001	0.0373		0.0458		0.062		0.0186		0.0417		0.004995	U	0.0267		0.06362
	X7-SS492-0102	0.00548		0.00365		0.00475		0.004995	U	0.00256		0.004995	U	0.00219		0.00994
X7-SB493	X7-SS493-0001	0.0751		0.0916		0.13		0.0422		0.0715		0.004995	U	0.0559		0.12319
	X7-SS493-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB494	X7-SS494-0001	0.0157		0.0161		0.0226		0.00847		0.0133		0.004995	U	0.00927		0.02595
	X7-SS494-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB497	X7-SS497-0001	0.0136		0.0122		0.0166		0.00656		0.00962		0.004995	U	0.007		0.02099
	X7-SS497-0102	0.0219		0.0251		0.0353		0.0105		0.0231		0.004995	U	0.0126		0.03720
X7-SB498	X7-SS498-0001	0.004995	U	0.00244		0.00325		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00881
	X7-SS498-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB502	X7-SS502-0001	0.0212		0.0258		0.0349		0.0121		0.0212		0.004995	U	0.015		0.03805
	X7-SS502-0102	0.00655		0.00437		0.00618		0.00218		0.00327		0.004995	U	0.00255		0.01092

TABLE 6-5

PAH CONCENTRATIONS IN SOIL SAMPLES USED FOR BENZO(a)PYRENE (BaP) EQUIVALENT CALCULATIONS - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

Sample Location	Sample ID	PAH Results (mg/Kg)														BaP equivalent (mg/Kg)
		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		
X7-SB503	X7-SS503-0001	0.0906		0.128		0.167		0.0591		0.112		0.004995	U	0.0693		0.16639
	X7-SS503-0102	0.00897		0.00734		0.0102		0.00326		0.00571		0.004995	U	0.00367		0.01466
X7-SB504	X7-SS504-0001	0.00744		0.00372		0.00579		0.00248		0.00331		0.004995	U	0.00248		0.01031
	X7-SS504-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB505	X7-SS505-0001	0.00979		0.00775		0.011		0.00408		0.00571		0.004995	U	0.00408		0.01528
	X7-SS505-0102	10.6		15.4		20.9		6.93		13.4		0.004995	U	7.51		19.38870
	X7-SB505-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB505-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB506	X7-SS506-0001	0.004995	U	0.004995	U	0.00205		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.01125
	X7-SS506-0102	0.00564		0.00201		0.00322		0.004995	U	0.00201		0.004995	U	0.004995	U	0.00844
X7-SB507	X7-SS507-0001	0.004995	U	0.004995	U	0.00244		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.01129
	X7-SS507-0102	0.004995	U	0.00192		0.00307		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00828
X7-SB510	X7-SS510-0001	0.00835		0.00676		0.00954		0.00358		0.00477		0.004995	U	0.00398		0.01398
	X7-SS510-0102	0.0316		0.0411		0.0545		0.0204		0.0352		0.004995	U	0.0229		0.05723
X7-SB511	X7-SS511-0001	0.272		0.4		0.494		0.185		0.328		0.004995	U	0.209		0.50467
	X7-SS511-0102	0.00776		0.00582		0.00854		0.00349		0.00466		0.004995	U	0.00349		0.01283
X7-SB513	X7-SS513-0001	0.00692		0.00326		0.00448		0.004995	U	0.00285		0.004995	U	0.00204		0.00965
	X7-SS513-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB518	X7-SS518-0001	0.0234		0.0283		0.0388		0.0121		0.023		0.004995	U	0.0166		0.04132
	X7-SS518-0102	0.00702		0.00517		0.00738		0.00295		0.00369		0.004995	U	0.00295		0.01193
X7-SB519	X7-SS519-0001	0.0179		0.0214		0.0288		0.00974		0.0171		0.004995	U	0.0136		0.03254
	X7-SS519-0102	0.0161		0.0161		0.0212		0.00769		0.0132		0.004995	U	0.00988		0.02590
X7-SB521	X7-SS521-0001	0.0102		0.00788		0.0114		0.00394		0.0067		0.004995	U	0.00551		0.01563
	X7-SS521-0102	0.004995	U	0.00228		0.0038		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00871
X7-SB522	X7-SS522-0001	0.00945		0.00657		0.0103		0.00329		0.00616		0.004995	U	0.00452		0.01403
	X7-SS522-0102	0.004995	U	0.00193		0.00309		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00829
X7-SB525	X7-SS525-0001	0.004995	U	0.00287		0.00369		0.004995	U	0.004995	U	0.004995	U	0.00205		0.00899
	X7-SS525-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB526	X7-SS526-0001	0.004995	U	0.00487		0.0069		0.00284		0.00365		0.004995	U	0.00325		0.01141
	X7-SS526-0102	0.168		0.237		0.325		0.116		0.213		0.004995	U	0.129		0.30557
	X7-SB526-0204	0.00632		0.00409		0.00521		0.00223		0.00298		0.004995	U	0.0026		0.01052
	X7-SB526-0406	0.004995	U	0.00353		0.00432		0.004995	U	0.00235		0.004995	U	0.00235		0.00974
X7-SB527	X7-SS527-0001	0.004995	U	0.00247		0.00329		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00885
	X7-SS527-0102	0.106		0.144		0.182		0.0762		0.13		0.004995	U	0.0789		0.18658
	X7-SB527-0204	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SB527-0406	0.00857		0.00623		0.00818		0.00351		0.00506		0.004995	U	0.00428		0.01337
X7-SB528	X7-SS528-0001	0.00864		0.00785		0.011		0.00471		0.00668		0.004995	U	0.00432		0.01529
	X7-SS528-0102	10.2		13.8		19.1		6.72		12.8		0.004995	U	7.63		17.57800
	X7-SB528-0204	1.17		1.51		2.03		0.726		1.24		0.004995	U	0.982		1.94170
	X7-SB528-0406	0.764		1.08		1.41		0.568		0.936		0.004995	U	0.688		1.37781
X7-SB529	X7-SS529-0001	0.0221		0.0243		0.0328		0.0149		0.0226		0.004995	U	0.0132		0.03628
	X7-SS529-0102	0.0505		0.0681		0.0919		0.0337		0.062		0.004995	U	0.0379		0.09152

TABLE 6-5

PAH CONCENTRATIONS IN SOIL SAMPLES USED FOR BENZO(a)PYRENE (BaP) EQUIVALENT CALCULATIONS - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

Sample Location	Sample ID	PAH Results (mg/Kg)														BaP equivalent (mg/Kg)
		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Indeno(1,2,3-cd)pyrene		
X7-SB530	X7-SS530-0001	0.0103		0.00827		0.0124		0.00538		0.00786		0.004995	U	0.00538		0.01613
	X7-SS530-0102	0.0732		0.103		0.14		0.0483		0.0896		0.004995	U	0.0531		0.13520
X7-SB531	X7-SS531-0001	0.00955		0.00676		0.00995		0.00318		0.00597		0.004995	U	0.00358		0.01410
	X7-SS531-0102	0.004995	U	0.0324		0.0365		0.004995	U	0.00495	U	0.004995	U	0.0243		0.04403
X7-SB533	X7-SS533-0001	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
	X7-SS533-0102	0.0741		0.092		0.123		0.0421		0.0849		0.00874		0.0446		0.12542
X7-SB535	X7-SS535-0001	0.0214		0.0266		0.0373		0.0159		0.0218		0.004995	U	0.0143		0.03908
	X7-SS535-0102	1.99		2.46		3.05		1.13		2.05		0.004995	U	1.14		3.09635
	X7-SB535-0204	0.0768		0.0961		0.12		0.0437		0.0867		0.004995	U	0.0586		0.12716
	X7-SB535-0406	0.004995	U	0.00368		0.0045		0.004995	U	0.00245		0.004995	U	0.00245		0.00992
X7-SB536	X7-SS536-0001	0.00928		0.00548		0.00886		0.00211		0.00464		0.004995	U	0.00337		0.01265
	X7-SS536-0102	0.004995	U	0.00196		0.00314		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00832
X7-SB540	X7-SS540-0001	0.00573		0.00327		0.00532		0.00287		0.00205		0.00205		0.00327		0.00678
	X7-SS540-0102	0.00844		0.00643		0.00924		0.00321		0.00522		0.004995	U	0.00402		0.01363
X7-SB541	X7-SS541-0001	1.36		1.74		2.22		0.824		1.5		0.004995	U	0.78		2.19074
	X7-SS541-0102	0.434		0.631		0.732		0.277		0.485		0.004995	U	0.346		0.79045
	X7-SB541-0204	0.0166		0.0146		0.0187		0.00893		0.0142		0.004995	U	0.00853		0.02408
	X7-SB541-0406	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
X7-SB542	X7-SS542-0001	0.00612		0.00367		0.00571		0.004995	U	0.00326		0.004995	U	0.00286		0.01019
	X7-SS542-0102	0.004995	U	0.004995	U	0.00231		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.01127
X7-SB546	X7-SS546-0001	0.00184		0.02		0.0298		0.00898		0.0171		0.00204		0.0122		0.02653
	X7-SS546-0102	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999
FIELD DUP	FD090612-01	0.004995	U	0.004995	U	0.00266		0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.01131
FIELD DUP	FD090612-02	0.0123		0.0127		0.0174		0.00578		0.00964		0.004995	U	0.00617		0.02135
FIELD DUP	FD090612-03	0.17		0.267		0.35		0.13		0.206		0.004995	U	0.154		0.34090
FIELD DUP	FD1000312-07	0.0504		0.0689		0.0959		0.0318		0.0548		0.00282	U	0.0411		0.09083
FIELD DUP	FD100213-08	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.004995	U	0.00999

Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentrations in range soil samples (mg/kg)	Total Cancer Risk Level
	< 0.015 mg/kg	$< 10^{-6}$
	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
	> 1.5 mg/kg	$> 10^{-4}$

TABLE 6-6

RANKED BaP EQUIVALENT CONCENTRATIONS - SOIL REMOVAL SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS505-0102	19.3887	Round 2A	Yes	5
X7-SB243-0204	18.4412	Round 2A	Yes	3
X7-SS528-0102	17.5780	Round 2A	Yes	7
X7-SS255-0102	9.4851	Round 1	Yes	3
X7-SS247-0102	5.6961	Round 1	Yes	2
X7-SS535-0102	3.0963	Round 2A	Yes	6
X7-SS541-0001	2.1907	Round 2A	Yes	6
X7-SB528-0204	1.9417	Round 2A	Yes	7
X7-SS255-0001	1.7376	Round 1	Yes	3
X7-SB255-0204	1.4805	Round 2A	Yes	3
X7-SB528-0406	1.3778	Round 2A	Yes	7
X7-SS541-0102	0.7905	Round 2A	Yes	6
X7SS254-0001	0.6998	Round 1	Yes	2
X7-SS511-0001	0.5047	Round 2A	Yes	4
X7-SS262-0001	0.4981	Round 1	Yes	1
X7-SS263-0001	0.4152	Round 1	Yes	1
X7-SS257-0102	0.3454	Round 1	Yes	3
X7SS243-0102	0.3438	Round 1	Yes	3
X7-SS526-0102	0.3056	Round 2A	Yes	6
X7SS261-0102	0.2931	Round 1	Yes	2
X7-SB256-0204	0.2803	Round 2A	Yes	3
X7SS254-0102	0.2654	Round 1	Yes	2
X7SS242-0001	0.2570	Round 1	Yes	2
X7SS075-0002	0.2321	Round 1	Yes	2
X7SS242-0102	0.2163	Round 1	Yes	2
X7-SS527-0102	0.1866	Round 2A	Yes	6
X7SS256-0102	0.1665	Round 1	Yes	3
X7-SS503-0001	0.1664	Round 2A	Yes	4
X7-SS271-0102	0.1533	Round 1	Yes	6
X7-SS247-0001	0.1532	Round 1	Yes	2
X7-SS260-0102	0.1475	Round 1	No	--
X7-SS272-0001	0.1396	Round 1	Yes	6
X7-SS530-0102	0.1352	Round 2A	No	--
X7-SS250-0102	0.1319	Round 1	No	--
X7-SS533-0102	0.1254	Round 2B	No	--
X7-SS493-0001	0.1232	Round 2A	No	--
X7-SS246-0102	0.1050	Round 1	No	--
X7-SS529-0102	0.0915	Round 2A	Yes	6
X7-SS262-0102	0.0902	Round 1	No	1

TABLE 6-6

RANKED BaP EQUIVALENT CONCENTRATIONS - SOIL REMOVAL SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SB243-0406	0.0870	Round 2A	No	3
X7-SS271-0001	0.0834	Round 1	Yes	6
X7-SB254-0204	0.0785	Round 2A	No	2
X7-SS492-0001	0.0636	Round 2A	Yes	1
X7-SS253-0102	0.0629	Round 1	No	--
X7-SB242-0204	0.0588	Round 2A	No	2
X7-SS244-0001	0.0585	Round 1	No	--
X7-SS510-0102	0.0572	Round 2A	No	--
X7-SS245-0102	0.0492	Round 1	No	--
X7-SS531-0102	0.0440	Round 2A	No	--
X7-SS266-0102	0.0428	Round 1	No	--
X7-SS248-0102	0.0414	Round 1	No	--
X7-SS518-0001	0.0413	Round 2A	No	--
X7-SS246-0001	0.0404	Round 1	No	--
X7-SS535-0001	0.0391	Round 2A	Yes	6
X7-SS502-0001	0.0380	Round 2A	No	--
X7-SS497-0102	0.0372	Round 2B	No	--
X7-SS529-0001	0.0363	Round 2A	Yes	6
X7-SS252-0102	0.0362	Round 1	No	--
X7-SS257-0001	0.0359	Round 1	Yes	3
X7-SB261-0406	0.0337	Round 2A	No	2
X7-SS519-0001	0.0325	Round 2A	No	--
X7-SS244-0102	0.0313	Round 1	No	--
X7SS261-0001	0.0298	Round 1	Yes	2
X7-SS245-0001	0.0269	Round 1	No	--
X7SS256-0001	0.0269	Round 1	Yes	3
X7-SS249-0102	0.0266	Round 1	No	--
X7-SS546-0001	0.0265	Round 2B	No	--
X7-SS494-0001	0.0260	Round 2A	No	--
X7-SS519-0102	0.0259	Round 2A	No	--
X7-SB541-0204	0.0241	Round 2A	No	6
X7-SS267-0102	0.0222	Round 1	No	--
X7SS071-0002	0.0213	Round 1	No	--
X7SS243-0001	0.0210	Round 1	Yes	3
X7-SS497-0001	0.0210	Round 2B	No	--
X7-SS251-0102	0.0196	Round 1	No	--
X7-SS251-0001	0.0189	Round 1	No	--
X7-SS265-0001	0.0184	Round 1	No	--
X7-SS491-0001	0.0165	Round 2A	No	--

TABLE 6-6

RANKED BaP EQUIVALENT CONCENTRATIONS - SOIL REMOVAL SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS530-0001	0.0161	Round 2A	No	--
X7-SS521-0001	0.0156	Round 2A	No	--
X7-SS528-0001	0.0153	Round 2A	Yes	7
X7-SS505-0001	0.0153	Round 2A	Yes	5
X7-SS503-0102	0.0147	Round 2A	No	--
X7-SS531-0001	0.0141	Round 2A	No	4
X7-SS522-0001	0.0140	Round 2A	No	--
X7-SS510-0001	0.0140	Round 2A	No	--
X7-SS267-0001	0.0139	Round 1	No	--
X7-SS540-0102	0.0136	Round 2B	No	--
X7-SS266-0001	0.0135	Round 1	No	--
X7-SB527-0406	0.0134	Round 2A	No	6
X7-SS249-0001	0.0130	Round 1	No	--
X7-SS511-0102	0.0128	Round 2A	No	4
X7-SS536-0001	0.0127	Round 2A	No	--
X7-SS260-0001	0.0122	Round 1	No	--
X7-SS518-0102	0.0119	Round 2A	No	--
X7-SS270-0001	0.0118	Round 1	No	--
X7-SS252-0001	0.0117	Round 1	No	--
X7-SS526-0001	0.0114	Round 2A	Yes	6
X7-SS507-0001	0.0113	Round 2A	No	--
X7-SS542-0102	0.0113	Round 2A	No	--
X7-SS506-0001	0.0112	Round 2B	No	--
X7-SS502-0102	0.0109	Round 2A	No	--
X7-SB526-0204	0.0105	Round 2A	No	6
X7-SS504-0001	0.0103	Round 2B	No	--
X7-SS258-0001	0.0103	Round 1	No	--
X7-SS542-0001	0.0102	Round 2A	No	--
X7-SB075-0204	0.0100	Round 2A	No	2
X7-SB242-0406	0.0100	Round 2A	No	2
X7-SB247-0406	0.0100	Round 2A	No	2
X7-SB254-0406	0.0100	Round 2A	No	2
X7-SB256-0406	0.0100	Round 2A	No	3
X7-SS491-0102	0.0100	Round 2A	No	--
X7-SS493-0102	0.0100	Round 2A	No	--
X7-SS494-0102	0.0100	Round 2A	No	--
X7-SS498-0102	0.0100	Round 2A	No	--
X7-SS504-0102	0.0100	Round 2B	No	--
X7-SB505-0204	0.0100	Round 2A	No	5

TABLE 6-6

RANKED BaP EQUIVALENT CONCENTRATIONS - SOIL REMOVAL SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SB505-0406	0.0100	Round 2A	No	5
X7-SS513-0102	0.0100	Round 2B	No	--
X7-SS525-0102	0.0100	Round 2A	No	--
X7-SB527-0204	0.0100	Round 2A	No	6
X7-SS533-0001	0.0100	Round 2B	No	--
X7-SB541-0406	0.0100	Round 2A	No	6
X7-SS546-0102	0.0100	Round 2B	No	--
X7-SS492-0102	0.0099	Round 2A	No	1
X7-SB535-0204	0.0099	Round 2A	No	6
X7-SB535-0406	0.0099	Round 2A	No	6
X7-SB526-0406	0.0097	Round 2A	No	6
X7-SS513-0001	0.0097	Round 2B	No	--
X7-SS253-0001	0.0094	Round 1	No	--
X7-SS525-0001	0.0090	Round 2A	No	--
X7-SB255-0406	0.0090	Round 2A	No	3
X7-SS250-0001	0.0089	Round 1	No	--
X7-SS527-0001	0.0088	Round 2A	Yes	6
X7-SS498-0001	0.0088	Round 2A	No	--
X7-SS521-0102	0.0087	Round 2A	No	--
X7-SS248-0001	0.0085	Round 1	No	--
X7-SS506-0102	0.0084	Round 2B	No	--
X7-SS536-0102	0.0083	Round 2A	No	--
X7-SS522-0102	0.0083	Round 2A	No	--
X7-SS507-0102	0.0083	Round 2A	No	--
X7-SB075-0406	0.0083	Round 2A	No	2
X7-SB261-0204	0.0082	Round 2A	No	2
X7-SS540-0001	0.0068	Round 2B	No	--
X7-SB247-0204	0.0062	Round 2A	No	2
X7-SS265-0102	0.0058	Round 1	No	--
X7-SS263-0102	0.0058	Round 1	Yes	2
X7-SS259-0001	0.0044	Round 1	Yes	6
X7-SS259-0102	0.0042	Round 1	Yes	6
X7-SS258-0102	0.0042	Round 1	No	--
X7-SS270-0102	0.0040	Round 1	No	--
X7SS086-0002	0.0010	Round 1	No	--

TABLE 6-6

RANKED BaP EQUIVALENT CONCENTRATIONS - SOIL REMOVAL SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7SS081-0002	0.0010	Round 1	No	--
X7SS079-0002	0.0010	Round 1	No	--

Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentrations in range soil samples (mg/kg)	Total Cancer Risk Level
🟢	< 0.015 mg/kg	$< 10^{-6}$
🟡	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
🟠	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
🔴	> 1.5 mg/kg	$> 10^{-4}$

TABLE 6-7

POST-REMOVAL ACTION BaP EQUIVALENT SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS260-0102	0.1475	Round 1	No	--
X7-SS530-0102	0.1352	Round 2A	No	--
X7-SS250-0102	0.1319	Round 1	No	--
X7-SS533-0102	0.1254	Round 2B	No	--
X7-SS493-0001	0.1232	Round 2A	No	--
X7-SS246-0102	0.1050	Round 1	No	--
X7-SS262-0102	0.0902	Round 1	No	1
X7-SB243-0406	0.0870	Round 2A	No	3
X7-SB254-0204	0.0785	Round 2A	No	2
X7-SS253-0102	0.0629	Round 1	No	--
X7-SB242-0204	0.0588	Round 2A	No	2
X7-SS244-0001	0.0585	Round 1	No	--
X7-SS510-0102	0.0572	Round 2A	No	--
X7-SS245-0102	0.0492	Round 1	No	--
X7-SS531-0102	0.0440	Round 2A	No	--
X7-SS266-0102	0.0428	Round 1	No	--
X7-SS248-0102	0.0414	Round 1	No	--
X7-SS518-0001	0.0413	Round 2A	No	--
X7-SS246-0001	0.0404	Round 1	No	--
X7-SS502-0001	0.0380	Round 2A	No	--
X7-SS497-0102	0.0372	Round 2B	No	--
X7-SS252-0102	0.0362	Round 1	No	--
X7-SB261-0406	0.0337	Round 2A	No	2
X7-SS519-0001	0.0325	Round 2A	No	--
X7-SS244-0102	0.0313	Round 1	No	--
X7-SS245-0001	0.0269	Round 1	No	--
X7-SS249-0102	0.0266	Round 1	No	--
X7-SS546-0001	0.0265	Round 2B	No	--
X7-SS494-0001	0.0260	Round 2A	No	--
X7-SS519-0102	0.0259	Round 2A	No	--
X7-SB541-0204	0.0241	Round 2A	No	6
X7-SS267-0102	0.0222	Round 1	No	--
X7SS071-0002	0.0213	Round 1	No	--
X7-SS497-0001	0.0210	Round 2B	No	--
X7-SS251-0102	0.0196	Round 1	No	--
X7-SS251-0001	0.0189	Round 1	No	--
X7-SS265-0001	0.0184	Round 1	No	--
X7-SS491-0001	0.0165	Round 2A	No	--
X7-SS530-0001	0.0161	Round 2A	No	--

TABLE 6-7

POST-REMOVAL ACTION BaP EQUIVALENT SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS521-0001	0.0156	Round 2A	No	--
X7-SS503-0102	0.0147	Round 2A	No	--
X7-SS531-0001	0.0141	Round 2A	No	4
X7-SS522-0001	0.0140	Round 2A	No	--
X7-SS510-0001	0.0140	Round 2A	No	--
X7-SS267-0001	0.0139	Round 1	No	--
X7-SS540-0102	0.0136	Round 2B	No	--
X7-SS266-0001	0.0135	Round 1	No	--
X7-SB527-0406	0.0134	Round 2A	No	6
X7-SS249-0001	0.0130	Round 1	No	--
X7-SS511-0102	0.0128	Round 2A	No	4
X7-SS536-0001	0.0127	Round 2A	No	--
X7-SS260-0001	0.0122	Round 1	No	--
X7-SS518-0102	0.0119	Round 2A	No	--
X7-SS270-0001	0.0118	Round 1	No	--
X7-SS252-0001	0.0117	Round 1	No	--
X7-SS507-0001	0.0113	Round 2A	No	--
X7-SS542-0102	0.0113	Round 2A	No	--
X7-SS506-0001	0.0112	Round 2B	No	--
X7-SS502-0102	0.0109	Round 2A	No	--
X7-SB526-0204	0.0105	Round 2A	No	6
X7-SS504-0001	0.0103	Round 2B	No	--
X7-SS258-0001	0.0103	Round 1	No	--
X7-SS542-0001	0.0102	Round 2A	No	--
X7-SB075-0204	0.0100	Round 2A	No	2
X7-SB242-0406	0.0100	Round 2A	No	2
X7-SB247-0406	0.0100	Round 2A	No	2
X7-SB254-0406	0.0100	Round 2A	No	2
X7-SB256-0406	0.0100	Round 2A	No	3
X7-SS491-0102	0.0100	Round 2A	No	--
X7-SS493-0102	0.0100	Round 2A	No	--
X7-SS494-0102	0.0100	Round 2A	No	--
X7-SS498-0102	0.0100	Round 2A	No	--
X7-SS504-0102	0.0100	Round 2B	No	--
X7-SB505-0204	0.0100	Round 2A	No	5
X7-SB505-0406	0.0100	Round 2A	No	5
X7-SS513-0102	0.0100	Round 2B	No	--
X7-SS525-0102	0.0100	Round 2A	No	--
X7-SB527-0204	0.0100	Round 2A	No	6

TABLE 6-7

POST-REMOVAL ACTION BaP EQUIVALENT SUMMARY - EAST TRAP RANGE, UXO 7 RANGES
NSA CRANE, INDIANA

East Trap Range	BaP Equivalent (mg/Kg)	Comments	Selected for Removal	Area No.
X7-SS533-0001	0.0100	Round 2B	No	--
X7-SB541-0406	0.0100	Round 2A	No	6
X7-SS546-0102	0.0100	Round 2B	No	--
X7-SS492-0102	0.0099	Round 2A	No	1
X7-SB535-0204	0.0099	Round 2A	No	6
X7-SB535-0406	0.0099	Round 2A	No	6
X7-SB526-0406	0.0097	Round 2A	No	6
X7-SS513-0001	0.0097	Round 2B	No	--
X7-SS253-0001	0.0094	Round 1	No	--
X7-SS525-0001	0.0090	Round 2A	No	--
X7-SB255-0406	0.0090	Round 2A	No	3
X7-SS250-0001	0.0089	Round 1	No	--
X7-SS498-0001	0.0088	Round 2A	No	--
X7-SS521-0102	0.0087	Round 2A	No	--
X7-SS248-0001	0.0085	Round 1	No	--
X7-SS506-0102	0.0084	Round 2B	No	--
X7-SS536-0102	0.0083	Round 2A	No	--
X7-SS522-0102	0.0083	Round 2A	No	--
X7-SS507-0102	0.0083	Round 2A	No	--
X7-SB075-0406	0.0083	Round 2A	No	2
X7-SB261-0204	0.0082	Round 2A	No	2
X7-SS540-0001	0.0068	Round 2B	No	--
X7-SB247-0204	0.0062	Round 2A	No	2
X7-SS265-0102	0.0058	Round 1	No	--
X7-SS258-0102	0.0042	Round 1	No	--
X7-SS270-0102	0.0040	Round 1	No	--
X7SS086-0002	0.0010	Round 1	No	--
X7SS081-0002	0.0010	Round 1	No	--
X7SS079-0002	0.0010	Round 1	No	--

Symbol for BaP Maps	Benzo(a)pyrene (BaP) equivalent concentrations in range soil samples (mg/kg)	Total Cancer Risk Level
🟢	< 0.015 mg/kg	$< 10^{-6}$
🟡	0.015 mg/kg to 0.15 mg/kg	10^{-6} to 10^{-5}
🟠	0.15 mg/kg to 1.5 mg/kg	10^{-5} to 10^{-4}
🔴	> 1.5 mg/kg	$> 10^{-4}$

TABLE 6-8

ProUCL STATISTICS - COMPARISON OF BaP EQUIVALENTS: CURRENT AND POST-REMOVAL CONDITOINS - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE, INDIANA

	General UCL Statistics for Data Sets with Non-Detects		
User Selected Options			
From File	C:\Work Folders\Projects\Crane\UXO 7\East Trap Range.xls.wst		
Full Precision	OFF		
Confidence Coefficient	95%		
Number of Bootstrap Operations	2000		
Bap_Eq			
General Statistics			
Number of Valid Data	154	Number of Detected Data	138
Number of Distinct Detected Data	127	Number of Non-Detect Data	16
		Percent Non-Detects	10.39%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00096	Minimum Detected	-6.949
Maximum Detected	19.39	Maximum Detected	2.965
Mean of Detected	0.664	Mean of Detected	-3.233
SD of Detected	2.852	SD of Detected	1.936
Minimum Non-Detect	0.004	Minimum Non-Detect	-5.521
Maximum Non-Detect	0.153	Maximum Non-Detect	-1.875
Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	126
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	28
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	81.82%
UCL Statistics			
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.429	Lilliefors Test Statistic	0.15
5% Lilliefors Critical Value	0.0754	5% Lilliefors Critical Value	0.0754
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.596	Mean	-3.414
SD	2.707	SD	1.933
95% DL/2 (t) UCL	0.957	95% H-Stat (DL/2) UCL	0.353
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.49
		SD in Log Scale	2.016
		Mean in Original Scale	0.596
		SD in Original Scale	2.707
		95% t UCL	0.956
		95% Percentile Bootstrap UCL	0.98
		95% BCA Bootstrap UCL	1.1
		95% H-UCL	0.4
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.251	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.648		
nu star	69.19		
A-D Test Statistic	20.94	Nonparametric Statistics	
5% A-D Critical Value	0.89	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.89	Mean	0.596
5% K-S Critical Value	0.0873	SD	2.698
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.218
		95% KM (t) UCL	0.957
Assuming Gamma Distribution		95% KM (z) UCL	0.955
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.957
Minimum	0.000001	95% KM (bootstrap t) UCL	1.205
Maximum	19.39	95% KM (BCA) UCL	0.999
Mean	0.595	95% KM (Percentile Bootstrap) UCL	0.971
Median	0.0153	95% KM (Chebyshev) UCL	1.547
SD	2.707	97.5% KM (Chebyshev) UCL	1.958

TABLE 6-8

ProUCL STATISTICS - COMPARISON OF BaP EQUIVALENTS: CURRENT AND POST-REMOVAL CONDITOINS - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE, INDIANA
PAGE 2 OF 3

k star	0.194	99% KM (Chebyshev) UCL	2.767
Theta star	3.059		
Nu star	59.89	**Potential UCLs to Use**	
AppChi2	43.1	97.5% KM (Chebyshev) UCL	1.958
95% Gamma Approximate UCL (Use when n >= 40)	0.827		
95% Adjusted Gamma UCL (Use when n < 40)	0.829		
Note: DL/2 is not a recommended method.			

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Ex_Bap_Eq

General Statistics

Number of Valid Data	154	Number of Detected Data	138
Number of Distinct Detected Data	84	Number of Non-Detect Data	16
		Percent Non-Detects	10.39%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.00096	Minimum Detected	-6.949
Maximum Detected	0.147	Maximum Detected	-1.914
Mean of Detected	0.0227	Mean of Detected	-4.14
SD of Detected	0.0265	SD of Detected	0.79
Minimum Non-Detect	0.004	Minimum Non-Detect	-5.521
Maximum Non-Detect	0.0902	Maximum Non-Detect	-2.405
Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	148
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	6
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	96.10%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Lilliefors Test Statistic	0.346	Lilliefors Test Statistic	0.262
5% Lilliefors Critical Value	0.0754	5% Lilliefors Critical Value	0.0754
Data not Normal at 5% Significance Level		**Data not Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0212	Mean	-4.236
SD	0.0256	SD	0.832
95% DL/2 (t) UCL	0.0247	95% H-Stat (DL/2) UCL	0.0235
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.239
		SD in Log Scale	0.817
		Mean in Original Scale	0.021
		SD in Original Scale	0.0255
		95% t UCL	0.0244
		95% Percentile Bootstrap UCL	0.0244
		95% BCA Bootstrap UCL	0.025
		95% H-UCL	0.0231
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	1.529	**Data do not follow a Discernable Distribution (0.05)**	
Theta Star	0.0148		
nu star	421.9		
A-D Test Statistic	12.23	**Nonparametric Statistics**	
5% A-D Critical Value	0.77	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.77	Mean	0.0212
5% K-S Critical Value	0.0811	SD	0.0254
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.00206
		95% KM (t) UCL	0.0246

TABLE 6-8

ProUCL STATISTICS - COMPARISON OF BaP EQUIVALENTS: CURRENT AND POST-REMOVAL CONDITOINS - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE, INDIANA

Assuming Gamma Distribution		95% KM (z) UCL	0.0245
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.0246
Minimum	0.000001	95% KM (bootstrap t) UCL	0.0252
Maximum	0.147	95% KM (BCA) UCL	0.0246
Mean	0.0208	95% KM (Percentile Bootstrap) UCL	0.0246
Median	0.015	95% KM (Chebyshev) UCL	0.0301
SD	0.0257	97.5% KM (Chebyshev) UCL	0.034
k star	0.686	99% KM (Chebyshev) UCL	0.0417
Theta star	0.0304		
Nu star	211.2	**Potential UCLs to Use**	
AppChi2	178.6	95% KM (BCA) UCL	0.0246
95% Gamma Approximate UCL (Use when n >= 40)	0.0246		
95% Adjusted Gamma UCL (Use when n < 40)	0.0247		
Note: DL/2 is not a recommended method.			

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

TABLE 6-9

LEAD SUMMARY - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
Northernmost Area of Northern Zone			
X7-SS055-0002	RFI-2007	1160.00	FBL
X7-SB055-0203	2	3.50	Calc
X7-SB055-0304	2	10.00	Calc
X7-SS173-0002	RFI-2007	125.00	FBL
X7-SS174-0002	RFI-2007	430.00	FBL
X7-SB174-0203	2	8.10	Calc
X7-SB174-0304	2	10.00	Calc
X7-SS175-0002	RFI-2007	170.00	FBL
X7-SS176-0002	RFI-2007	143.00	Calc
X7-SS189-0002	RFI-2007	151.00	FBL
X7-SS190-0002	RFI-2007	347.00	Calc
X7-SB190-0203	2	10.00	Calc
X7-SB190-0304	2	10.00	Calc
X7-SS274-0001	1	670.00	Calc
X7-SS274-0102	1	397.00	Calc
X7-SB274-0203	2	28.42	Calc
X7-SB274-0304	2	11.93	Calc
X7-SS275-0001	1	413.00	Calc
X7-SS275-0102	1	616.00	Calc
X7-SB275-0203	2	46.43	Calc
X7-SB275-0304	2	1.58	Calc
X7-SS276-0001	1	128.00	Calc
X7-SS276-0102	1	90.90	Calc
X7-SS277-0001	1	382.00	Calc
X7-SS277-0102	1	315.00	Calc
X7-SB277-0203	2	10.00	Calc
X7-SB277-0304	2	10.00	Calc
X7-SS278-0001	1	464.00	Calc
X7-SS278-0102	1	315.00	Calc
X7-SB278-0203	2	10.00	Calc
X7-SB278-0304	2	10.00	Calc
X7-SS279-0001	1	408.00	Calc
X7-SS279-0102	1	376.00	Calc
X7-SB279-0203	1	20.10	FBL
X7-SS280-0001	1	603.00	Calc

TABLE 6-9

LEAD SUMMARY - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS280-0102	1	94.30	FBL
X7-SS281-0001	1	611.00	Calc
X7-SS281-0102	1	96.60	Calc
X7-SS282-0001	1	559.00	Calc
X7-SS282-0102	1	303.00	Calc
X7-SB282-0203	1	88.80	Calc
X7-SS283-0001	1	534.00	Calc
X7-SS283-0102	1	522.00	Calc
X7-SB283-0203	2	39.92	Calc
X7-SB283-0304	2	10.00	Calc
X7-SS284-0001	1	503.00	Calc
X7-SS284-0102	1	87.30	Calc
X7-SS285-0001	1	392.00	Calc
X7-SB285-0203	2	10.00	Calc
X7-SB285-0304	2	10.00	Calc
X7-SS286-0001	1	189.00	Calc
X7-SS287-0001	1	44.80	FBL
X7-SS288-0001	1	63.80	FBL
X7-SS289-0001	1	78.00	Calc
X7-SS290-0001	1	143.00	Calc
X7-SS290-0102	1	29.00	Calc
X7-SS321-0001	1	156.00	FBL
X7-SS321-0102	1	40.00	Calc
X7-SS323-0001	1	448.00	FBL
X7-SS323-0102	1	50.20	Calc
X7-SS325-0001	1	419.00	Calc
X7-SS325-0102	1	37.30	Calc
X7-SS327-0001	1	66.40	FBL
X7-SS329-0001	1	46.30	FBL
X7-SS331-0001	1	138.00	FBL
X7-SS331-0102	1	39.40	Calc
X7-SS333-0001	1	198.00	FBL
X7-SS333-0102	1	39.40	Calc
X7-SS336-0001	1	236.00	FBL
X7-SS336-0102	1	71.00	Calc
X7-SS337-0001	1	63.10	FBL

TABLE 6-9

LEAD SUMMARY - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS342-0102	1	263.00	FBL
X7-SB342-0203	2	10.00	Calc
X7-SB342-0304	2	10.00	Calc
X7-SS344-0001	1	111.00	FBL
X7-SS344-0102	1	22.80	Calc
X7-SS423-0001	1	340.00	FBL
X7-SS423-0102	1	25.80	Calc
X7-SS424-0001	1	193.00	FBL
X7-SS424-0102	1	91.00	FBL
X7-SS425-0001	1	160.00	FBL
X7-SS425-0102	1	16.50	Calc
X7-SB426-0304	1	16.20	Calc
X7-SB427-0304	1	22.70	FBL
X7-SB428-0304	1	26.70	Calc
X7-SS429-0001	1	125.00	FBL
X7-SB567-0001	2	99.33	Calc
X7-SB567-0102	2	12.70	Calc
X7-SB568-0001	2	256.12	Calc
X7-SB568-0102	2	88.20	FBL
X7-SB568-0203	2	10.00	Calc
X7-SB568-0304	2	10.00	Calc
X7-SB569-0001	2	660.92	Calc
X7-SB569-0102	2	93.10	FBL
X7-SB569-0203	2	10.00	Calc
X7-SB569-0304	2	10.00	Calc
X7-SB570-0001	2	262.25	Calc
X7-SB570-0102	2	11.93	Calc
X7-SB570-0203	2	10.00	Calc
X7-SB570-0304	2	10.00	Calc
X7-SB571-0001	2	82.08	Calc
X7-SB571-0102	2	10.00	Calc
X7-SB572-0001	2	17.30	Calc
X7-SB572-0102	2	38.00	Calc
X7-SB573-0001	2	47.97	Calc
X7-SB573-0102	2	46.82	Calc
X7-SB574-0001	2	59.47	Calc

TABLE 6-9

LEAD SUMMARY - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB574-0102	2	16.92	Calc
X7-SB575-0001	2	90.52	Calc
X7-SB575-0102	2	10.00	Calc
X7-SB576-0001	2	94.35	Calc
X7-SB576-0102	2	4.65	Calc
X7-SB577-0001	2	95.30	FBL
X7-SB577-0102	2	1.96	Calc
X7-SS607-0001	2	11.93	Calc
X7-SS607-0102	2	5.00	Calc
X7-SS608-0001	2	166.00	FBL
X7-SS608-0102	2	14.23	Calc
X7-SS609-0001	2	10.78	Calc
X7-SS609-0102	2	10.00	Calc
AVG LEAD CONCENTRATION		**151.43**	

Indicates lead concentration greater than 400 mg/kg

bkg = background
Calc = lead calculated value
FBL = Fixed-base laboratory
XRF = X-Ray fluorescence

TABLE 6-10

LEAD RANKED - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Bkg	Source
Northernmost Area of Northern Zone				
X7-SS055-0002	RFI-2007	**1160.00**	**27.00**	FBL
X7-SB055-0203	2	3.50	3.50	Calc
X7-SB055-0304	2	10.00	10.00	Calc
X7-SS173-0002	RFI-2007	125.00	125.00	FBL
X7-SS174-0002	RFI-2007	**430.00**	**27.00**	FBL
X7-SB174-0203	2	8.10	8.10	Calc
X7-SB174-0304	2	10.00	10.00	Calc
X7-SS175-0002	RFI-2007	170.00	170.00	FBL
X7-SS176-0002	RFI-2007	143.00	143.00	Calc
X7-SS189-0002	RFI-2007	151.00	151.00	FBL
X7-SS190-0002	RFI-2007	**347.00**	347.00	Calc
X7-SB190-0203	2	10.00	10.00	Calc
X7-SB190-0304	2	10.00	10.00	Calc
X7-SS274-0001	1	**670.00**	**27.00**	Calc
X7-SS274-0102	1	**397.00**	397.00	Calc
X7-SB274-0203	2	28.42	28.42	Calc
X7-SB274-0304	2	11.93	11.93	Calc
X7-SS275-0001	1	**413.00**	**27.00**	Calc
X7-SS275-0102	1	**616.00**	**27.00**	Calc
X7-SB275-0203	2	46.43	46.43	Calc
X7-SB275-0304	2	1.58	1.58	Calc
X7-SS276-0001	1	128.00	128.00	Calc
X7-SS276-0102	1	90.90	90.90	Calc
X7-SS277-0001	1	**382.00**	382.00	Calc
X7-SS277-0102	1	**315.00**	315.00	Calc
X7-SB277-0203	2	10.00	10.00	Calc
X7-SB277-0304	2	10.00	10.00	Calc
X7-SS278-0001	1	**464.00**	**27.00**	Calc
X7-SS278-0102	1	**315.00**	315.00	Calc
X7-SB278-0203	2	10.00	10.00	Calc
X7-SB278-0304	2	10.00	10.00	Calc
X7-SS279-0001	1	**408.00**	**27.00**	Calc
X7-SS279-0102	1	**376.00**	376.00	Calc
X7-SB279-0203	1	20.10	20.10	FBL
X7-SS280-0001	1	**603.00**	**27.00**	Calc

TABLE 6-10

LEAD RANKED - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Bkg	Source
X7-SS280-0102	1	94.30	94.30	FBL
X7-SS281-0001	1	**611.00**	**27.00**	Calc
X7-SS281-0102	1	96.60	96.60	Calc
X7-SS282-0001	1	**559.00**	**27.00**	Calc
X7-SS282-0102	1	**303.00**	303.00	Calc
X7-SB282-0203	1	88.80	88.80	Calc
X7-SS283-0001	1	**534.00**	**27.00**	Calc
X7-SS283-0102	1	**522.00**	**27.00**	Calc
X7-SB283-0203	2	39.92	39.92	Calc
X7-SB283-0304	2	10.00	10.00	Calc
X7-SS284-0001	1	**503.00**	**27.00**	Calc
X7-SS284-0102	1	87.30	87.30	Calc
X7-SS285-0001	1	**392.00**	392.00	Calc
X7-SB285-0203	2	10.00	10.00	Calc
X7-SB285-0304	2	10.00	10.00	Calc
X7-SS286-0001	1	189.00	189.00	Calc
X7-SS287-0001	1	44.80	44.80	FBL
X7-SS288-0001	1	63.80	63.80	FBL
X7-SS289-0001	1	78.00	78.00	Calc
X7-SS290-0001	1	143.00	143.00	Calc
X7-SS290-0102	1	29.00	29.00	Calc
X7-SS321-0001	1	156.00	156.00	FBL
X7-SS321-0102	1	40.00	40.00	Calc
X7-SS323-0001	1	**448.00**	**448.00**	FBL
X7-SS323-0102	1	50.20	50.20	Calc
X7-SS325-0001	1	**419.00**	**419.00**	Calc
X7-SS325-0102	1	37.30	37.30	Calc
X7-SS327-0001	1	66.40	66.40	FBL
X7-SS329-0001	1	46.30	46.30	FBL
X7-SS331-0001	1	138.00	138.00	FBL
X7-SS331-0102	1	39.40	39.40	Calc
X7-SS333-0001	1	**198.00**	198.00	FBL
X7-SS333-0102	1	39.40	39.40	Calc
X7-SS336-0001	1	**236.00**	236.00	FBL
X7-SS336-0102	1	71.00	71.00	Calc
X7-SS337-0001	1	63.10	63.10	FBL
X7-SS342-0102	1	**263.00**	263.00	FBL

TABLE 6-10

LEAD RANKED - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Bkg	Source
X7-SB342-0203	2	10.00	10.00	Calc
X7-SB342-0304	2	10.00	10.00	Calc
X7-SS344-0001	1	111.00	111.00	FBL
X7-SS344-0102	1	22.80	22.80	Calc
X7-SS423-0001	1	**340.00**	340.00	FBL
X7-SS423-0102	1	25.80	25.80	Calc
X7-SS424-0001	1	193.00	193.00	FBL
X7-SS424-0102	1	91.00	91.00	FBL
X7-SS425-0001	1	160.00	160.00	FBL
X7-SS425-0102	1	16.50	16.50	Calc
X7-SB426-0304	1	16.20	16.20	Calc
X7-SB427-0304	1	22.70	22.70	FBL
X7-SB428-0304	1	26.70	26.70	Calc
X7-SS429-0001	1	125.00	125.00	FBL
X7-SB567-0001	2	99.33	99.33	Calc
X7-SB567-0102	2	12.70	12.70	Calc
X7-SB568-0001	2	**256.12**	256.12	Calc
X7-SB568-0102	2	88.20	88.20	FBL
X7-SB568-0203	2	10.00	10.00	Calc
X7-SB568-0304	2	10.00	10.00	Calc
X7-SB569-0001	2	**660.92**	**660.92**	Calc
X7-SB569-0102	2	93.10	93.10	FBL
X7-SB569-0203	2	10.00	10.00	Calc
X7-SB569-0304	2	10.00	10.00	Calc
X7-SB570-0001	2	**262.25**	262.25	Calc
X7-SB570-0102	2	11.93	11.93	Calc
X7-SB570-0203	2	10.00	10.00	Calc
X7-SB570-0304	2	10.00	10.00	Calc
X7-SB571-0001	2	82.08	82.08	Calc
X7-SB571-0102	2	10.00	10.00	Calc
X7-SB572-0001	2	17.30	17.30	Calc
X7-SB572-0102	2	38.00	38.00	Calc
X7-SB573-0001	2	47.97	47.97	Calc
X7-SB573-0102	2	46.82	46.82	Calc
X7-SB574-0001	2	59.47	59.47	Calc
X7-SB574-0102	2	16.92	16.92	Calc
X7-SB575-0001	2	90.52	90.52	Calc

TABLE 6-10

LEAD RANKED - NORTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Bkg	Source
X7-SB575-0102	2	10.00	10.00	Calc
X7-SB576-0001	2	94.35	94.35	Calc
X7-SB576-0102	2	4.65	4.65	Calc
X7-SB577-0001	2	95.30	95.30	FBL
X7-SB577-0102	2	1.96	1.96	Calc
X7-SS607-0001	2	11.93	11.93	Calc
X7-SS607-0102	2	5.00	5.00	Calc
X7-SS608-0001	2	166.00	166.00	FBL
X7-SS608-0102	2	14.23	14.23	Calc
X7-SS609-0001	2	10.78	10.78	Calc
X7-SS609-0102	2	10.00	10.00	Calc
AVG LEAD CONCENTRATION		**151.43**	**91.92**	

Indicates lead concentration greater than 400 mg/kg
Indicates lead concentration between 192 and 400 mg/kg
Indicates sample location selected for removal and backfilled

bkg = background
Calc = lead calculated value
FBL = Fixed-base laboratory
XRF = X-Ray fluorescence

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
Central Area of Northern Zone - 400-yard Firing Berm			
X7-SS043-0002	RFI-2007	56.00	Calc
X7-SS044-0002	RFI-2007	199.00	FBL
X7-SS044-0102	2	263.40	Calc
X7-SB044-0203	2	10.40	Calc
X7-SS045-0002	RFI-2007	286.00	FBL
X7-SB045-0203	2	261.87	Calc
X7-SB045-0304	2	397.18	Calc
X7-SB045-0405	2	76.33	Calc
X7-SB045-0506	2	56.02	Calc
X7-SS046-0002	RFI-2007	1100.00	FBL
X7-SB046-0203	2	768.25	Calc
X7-SB046-0304	2	440.50	Calc
X7-SB046-0405	2	568.15	Calc
X7-SB046-0506	2	42.60	Calc
X7-SS047-0002	RFI-2007	63.00	Calc
X7-SS048-0002	RFI-2007	190.00	FBL
X7-SS177-0002	RFI-2007	115.00	FBL
X7-SS178-0002	RFI-2007	40.90	FBL
X7-SS179-0002	RFI-2007	83.60	FBL
X7-SS180-0002	RFI-2007	89.00	FBL
X7-SS181-0002	RFI-2007	212.00	FBL
X7-SB181-0203	2	59.08	Calc
X7-SB181-0304	2	4.65	Calc
X7-SS182-0002	RFI-2007	95.10	FBL
X7-SS291-0001	1	1186.00	Calc
X7-SS291-0102	1	365.00	Calc
X7-SB291-0203	1	203.00	FBL
X7-SB291-0304	2	366.90	Calc
X7-SB291-0405	2	18.07	Calc
X7-SS292-0001	1	226.00	Calc
X7-SS292-0102	1	90.60	Calc
X7-SS293-0001	1	71.60	Calc
X7-SS294-0001	1	148.00	Calc
X7-SS294-0102	1	61.70	Calc
X7-SS295-0001	1	339.00	Calc
X7-SS295-0102	1	386.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB295-0203	1	477.00	Calc
X7-SB295-0304	2	246.00	FBL
X7-SB295-0405	2	10.00	Calc
X7-SS296-0001	1	818.00	Calc
X7-SS296-0102	1	304.00	Calc
X7-SB296-0203	1	280.00	Calc
X7-SB296-0304	2	551.28	Calc
X7-SB296-0405	2	16.92	Calc
X7-SB296-0506	2	10.00	Calc
X7-SB296-0607	2	10.00	Calc
X7-SS297-0001	1	646.00	Calc
X7-SS297-0102	1	366.00	Calc
X7-SB297-0203	1	232.00	Calc
X7-SB297-0304	2	16.15	Calc
X7-SB297-0405	2	10.00	Calc
X7-SS298-0001	1	356.00	Calc
X7-SS298-0102	1	414.00	Calc
X7-SB298-0203	2	180.60	Calc
X7-SB298-0304	2	806.58	Calc
X7-SB298-0405	2	142.00	FBL
X7-SB298-0506	2	24.20	Calc
X7-SS299-0001	1	338.00	Calc
X7-SS299-0102	1	478.00	Calc
X7-SB299-0203	1	122.00	Calc
X7-SS300-0001	1	230.00	Calc
X7-SS300-0102	1	228.00	Calc
X7-SB300-0203	2	85.53	Calc
X7-SB300-0304	2	190.18	Calc
X7-SB300-0405	2	630.63	Calc
X7-SB300-0506	2	10.00	Calc
X7-SS301-0001	1	164.00	Calc
X7-SS301-0102	1	357.00	Calc
X7-SB301-0203	1	517.00	Calc
X7-SB301-0304	2	299.43	Calc
X7-SB301-0405	2	0.43	Calc
X7-SS302-0001	1	159.00	Calc
X7-SS302-0102	1	76.20	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS303-0001	1	261.00	Calc
X7-SS303-0102	1	532.00	Calc
X7-SB303-0203	2	19.98	Calc
X7-SB303-0304	2	10.00	Calc
X7-SS304-0001	1	87.90	Calc
X7-SS305-0001	1	311.00	Calc
X7-SS305-0102	1	68.00	Calc
X7-SS306-0001	1	484.00	Calc
X7-SS306-0102	1	160.00	Calc
X7-SB306-0203	1	82.50	Calc
X7-SS307-0001	1	568.00	Calc
X7-SS307-0102	1	47.50	Calc
X7-SS308-0001	1	469.00	Calc
X7-SS308-0102	1	235.00	Calc
X7-SB308-0203	1	23.70	Calc
X7-SS345-0001	1	518.00	Calc
X7-SS345-0102	1	78.40	FBL
X7-SS347-0001	1	541.00	Calc
X7-SS347-0102	1	91.50	FBL
X7-SS349-0001	1	166.00	Calc
X7-SS349-0102	1	601.00	Calc
X7-SB349-0203	2	40.30	Calc
X7-SB349-0304	2	9.25	Calc
X7-SS351-0001	1	191.00	FBL
X7-SS351-0102	1	290.00	FBL
X7-SB351-0203	2	541.70	Calc
X7-SB351-0304	2	114.00	FBL
X7-SB351-0405	2	10.00	Calc
X7-SB351-0506	2	128.00	FBL
X7-SB351-0607	2	10.00	Calc
X7-SB351-0708	2	10.00	Calc
X7-SS353-0001	1	157.00	FBL
X7-SS355-0001	1	136.00	FBL
X7-SS355-0102	1	110.00	Calc
X7-SS357-0001	1	408.00	Calc
X7-SS357-0102	1	69.20	Calc
X7-SS358-0001	1	370.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS358-0102	1	455.00	Calc
X7-SB358-0203	2	343.13	Calc
X7-SB358-0304	2	158.75	Calc
X7-SB358-0405	2	284.48	Calc
X7-SB358-0506	2	283.00	FBL
X7-SB358-0607	2	10.00	Calc
X7-SB358-0708	2	10.00	Calc
X7-SS360-0001	1	232.00	Calc
X7-SS360-0102	1	302.00	Calc
X7-SB360-0203	2	2044.80	Calc
X7-SB360-0304	2	88.22	Calc
X7-SS361-0001	1	299.00	Calc
X7-SS361-0102	1	291.00	Calc
X7-SB361-0203	2	10.00	Calc
X7-SB361-0304	2	105.47	Calc
X7-SS363-0001	1	180.00	FBL
X7-SS363-0102	1	10.20	Calc
X7-SS365-0001	1	412.00	Calc
X7-SS365-0102	1	403.00	Calc
X7-SB365-0203	2	10.00	Calc
X7-SB365-0304	2	10.00	Calc
X7-SS368-0001	1	187.00	Calc
X7-SS368-0102	1	660.00	Calc
X7-SB368-0203	2	87.50	FBL
X7-SB368-0304	2	10.00	Calc
X7-SS369-0001	1	869.00	Calc
X7-SS369-0102	1	245.00	FBL
X7-SB369-0203	2	555.88	Calc
X7-SB369-0304	2	675.48	Calc
X7-SB369-0405	2	19.98	Calc
X7-SB369-0506	2	14.62	Calc
X7-SS391-0001	1	152.00	Calc
X7-SS391-0102	1	566.00	Calc
X7-SB391-0203	1	52.30	Calc
X7-SS392-0001	1	107.00	FBL
X7-SS393-0001	1	147.00	Calc
X7-SS393-0102	1	226.00	FBL

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB393-0203	1	186.00	Calc
X7-SS394-0001	1	142.00	Calc
X7-SS394-0102	1	285.00	Calc
X7-SB394-0203	1	35.50	Calc
X7-SS395-0001	1	246.00	Calc
X7-SS395-0102	1	535.00	Calc
X7-SB395-0203	1	321.00	Calc
X7-SB395-0304	2	537.87	Calc
X7-SB395-0405	2	160.00	FBL
X7-SB395-0506	2	10.00	Calc
X7-SB395-0607	2	10.00	Calc
X7-SS396-0001	1	145.00	Calc
X7-SS396-0102	1	384.00	Calc
X7-SB396-0203	1	303.00	Calc
X7-SS398-0001	1	293.00	Calc
X7-SS398-0102	1	458.00	Calc
X7-SB398-0203	2	555.88	Calc
X7-SB398-0304	2	294.07	Calc
X7-SB398-0405	2	69.43	Calc
X7-SB398-0506	2	3.50	Calc
X7-SS400-0001	1	104.00	Calc
X7-SS401-0001	1	97.40	FBL
X7-SS401-0102	1	337.00	Calc
X7-SB401-0203	2	10.00	Calc
X7-SB401-0304	2	10.00	Calc
X7-SS402-0001	1	89.70	FBL
X7-SS404-0001	1	292.00	Calc
X7-SS404-0102	1	83.40	Calc
X7-SS406-0001	1	80.40	Calc
X7-SS407-0001	1	73.70	FBL
X7-SS408-0001	1	246.00	FBL
X7-SS408-0102	1	31.90	Calc
X7-SB409-0304	1	1087.00	Calc
X7-SB409-0405	2	406.00	Calc
X7-SB409-0506	2	10.00	Calc
X7-SS410-0001	1	12.30	FBL
X7-SB411-0304	1	52.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS412-0001	1	189.00	FBL
X7-SS412-0102	1	31.90	Calc
X7-SB413-0304	1	869.00	Calc
X7-SS414-0001	1	199.00	FBL
X7-SS414-0102	1	104.00	Calc
X7-SS415-0001	1	105.00	FBL
X7-SS415-0102	1	36.40	Calc
X7-SS416-0001	1	78.20	FBL
X7-SB417-0304	1	194.00	Calc
X7-SB417-0405	1	159.00	Calc
X7-SB417-0506	2	107.77	Calc
X7-SB417-0607	2	10.00	Calc
X7-SB417-0708	2		
X7-SS418-0001	1	48.40	Calc
X7-SS420-0001	1	119.00	Calc
X7-SS420-0102	1	445.00	Calc
X7-SS420-0203	1	76.50	Calc
X7-SS421-0001	1	681.00	Calc
X7-SS421-0102	1	19.80	Calc
X7-SS422-0001	1	399.00	Calc
X7-SS422-0102	1	343.00	FBL
X7-SS422-0203	1	49.00	Calc
X7-SS551-0001	2	432.83	Calc
X7-SS551-0102	2	172.17	Calc
X7-SB551-0203	2	169.48	Calc
X7-SB551-0304	2	248.83	Calc
X7-SB551-0405	2	452.38	Calc
X7-SB551-0506	2	10.00	Calc
X7-SS552-0001	2	22.28	Calc
X7-SS552-0102	2	252.67	Calc
X7-SB552-0203	2	123.87	Calc
X7-SB552-0304	2	262.63	Calc
X7-SB552-0405	2	1074.50	Calc
X7-SB552-0506	2	10.00	Calc
X7-SS553-0001	2	399.10	Calc
X7-SS553-0102	2	128.85	Calc
X7-SB553-0203	2	107.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB553-0304	2	26.50	Calc
X7-SS554-0001	2	136.52	Calc
X7-SS554-0102	2	116.58	Calc
X7-SB554-0203	2	1337.50	Calc
X7-SB554-0304	2	129.62	Calc
X7-SB554-0405	2	31.87	Calc
X7-SB554-0506	2	10.00	Calc
X7-SS555-0001	2	87.83	Calc
X7-SS555-0102	2	536.33	Calc
X7-SB555-0203	2	108.53	Calc
X7-SB555-0304	2	10.00	Calc
X7-SS556-0001	2	373.03	Calc
X7-SS556-0102	2	2242.20	Calc
X7-SB556-0203	2	312.47	Calc
X7-SB556-0304	2	289.08	Calc
X7-SB556-0405	2	192.87	Calc
X7-SB556-0506	2	700.78	Calc
X7-SB556-0607	2	108.15	Calc
X7-SB556-0708	2	23.05	Calc
X7-SS557-0001	2	295.22	Calc
X7-SS557-0102	2	416.35	Calc
X7-SB557-0203	2	823.83	Calc
X7-SB557-0304	2	1935.10	Calc
X7-SB557-0405	2	10.40	Calc
X7-SB557-0506	2	2.35	Calc
X7-SS558-0001	2	547.07	Calc
X7-SS558-0102	2	220.08	Calc
X7-SB558-0203	2	72.12	Calc
X7-SB558-0304	2	1868.80	Calc
X7-SB558-0405	2	10.00	Calc
X7-SB558-0506	2	217.00	FBL
X7-SB558-0607	2	15.00	Calc
X7-SB558-0708	2	10.00	Calc
X7-SS559-0001	2	465.80	Calc
X7-SS559-0102	2	1027.80	Calc
X7-SB559-0203	2	39.15	Calc
X7-SB559-0304	2	10.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS560-0001	2	365.37	Calc
X7-SS560-0102	2	823.83	Calc
X7-SB560-0203	2	131.15	Calc
X7-SB560-0304	2	37.62	Calc
X7-SS561-0001	2	215.10	Calc
X7-SS561-0102	2	99.33	Calc
X7-SB561-0203	2	144.00	FBL
X7-SB561-0304	2	10.00	Calc
X7-SB561-0405	2	10.00	Calc
X7-SS562-0001	2	392.97	Calc
X7-SS562-0102	2	385.68	Calc
X7-SB562-0203	2	173.32	Calc
X7-SB562-0304	2	10.00	Calc
X7-SS563-0001	2	195.00	FBL
X7-SS563-0102	2	10.00	Calc
X7-SB563-0203	2	10.00	Calc
X7-SB563-0304	2	10.00	Calc
X7-SS564-0001	2	221.62	Calc
X7-SS564-0102	2	36.08	Calc
X7-SB564-0203	2	10.00	Calc
X7-SB564-0304	2	10.00	Calc
X7-SS565-0001	2	2057.80	Calc
X7-SS565-0102	2	5081.90	Calc
X7-SB565-0203	2	966.05	Calc
X7-SB565-0304	2	10.00	Calc
X7-SB565-0405	2	8.48	Calc
X7-SB565-0506	2	10.00	Calc
X7-SS566-0001	2	796.23	Calc
X7-SS566-0102	2	338.15	Calc
X7-SB566-0203	2	1727.00	Calc
X7-SB566-0304	2	52.18	Calc
X7-SB566-0405	2	3.12	Calc
X7-SS581-0001	2	377.63	Calc
X7-SS581-0102	2	10.00	Calc
X7-SS582-0001	2	1037.40	Calc
X7-SS582-0102	2	4003.20	Calc
X7-SB582-0203	2	2313.50	Calc

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LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB582-0304	2	207.05	Calc
X7-SB582-0405	2	7.72	Calc
X7-SB582-0506	2	10.00	Calc
X7-SS583-0001	2	4092.10	Calc
X7-SS583-0102	2	2425.80	Calc
X7-SB583-0203	2	1847.70	Calc
X7-SB583-0304	2	10.00	Calc
X7-SB583-0405	2	10.00	Calc
X7-SB583-0506	2	10.00	Calc
X7-SS584-0001	2	242.00	FBL
X7-SS584-0102	2	10.00	Calc
X7-SB584-0203	2	10.00	Calc
X7-SB584-0304	2	10.00	Calc
X7-SS585-0001	2	175.23	Calc
X7-SS585-0102	2	10.00	Calc
X7-SS586-0001	2	386.07	Calc
X7-SS586-0102	2	204.00	FBL
X7-SS587-0001	2	138.00	FBL
X7-SS587-0102	2	100.48	Calc
X7-SS588-0001	2	129.62	Calc
X7-SS588-0102	2	100.48	Calc
X7-SB588-0203	2	62.33	XRF
X7-SS589-0001	2	409.45	Calc
X7-SS589-0102	2	3.88	Calc
X7-SB589-0203	2	239.63	Calc
X7-SB589-0304	2	293.30	Calc
X7-SS590-0001	2	163.35	Calc
X7-SS590-0102	2	10.02	Calc
X7-SS591-0001	2	173.32	Calc
X7-SS591-0102	2	865.23	Calc
X7-SB591-0203	2	322.43	Calc
X7-SB591-0304	2	355.02	Calc
X7-SS592-0001	2	231.20	Calc
X7-SS592-0102	2	302.50	Calc
X7-SB592-0203	2	416.35	Calc
X7-SB592-0304	2	519.47	Calc
X7-SB592-0405	2	1400.80	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB592-0506	2	240.00	FBL
X7-SB592-0607	2	23.05	Calc
X7-SB592-0708	2	10.00	Calc
X7-SS593-0001	2	531.35	Calc
X7-SS593-0102	2	393.73	Calc
X7-SB593-0203	2	10.00	Calc
X7-SB593-0304	2	19.60	FBL
X7-SS594-0001	2	272.60	Calc
X7-SS594-0102	2	477.30	Calc
X7-SB594-0203	2	699.25	Calc
X7-SB594-0304	2	78.25	Calc
X7-SS595-0001	2	157.00	FBL
X7-SS595-0102	2	10.00	Calc
X7-SS596-0001	2	10.00	Calc
X7-SS596-0102	2	10.00	Calc
X7-SS597-0001	2	89.37	Calc
X7-SS597-0102	2	10.00	Calc
X7-SS598-0001	2	21.13	Calc
X7-SS598-0102	2	10.00	Calc
X7-SS599-0001	2	10.00	Calc
X7-SS599-0102	2	10.00	Calc
X7-SS600-0001	2	6.57	Calc
X7-SS600-0102	2	10.00	Calc
X7-SS601-0001	2	1638.40	Calc
X7-SS601-0102	2	2139.40	Calc
X7-SB601-0203	2	571.60	Calc
X7-SB601-0304	2	7.33	Calc
X7-SS602-0001	2	113.52	Calc
X7-SS602-0102	2	281.80	Calc
X7-SB602-0203	2	128.85	Calc
X7-SB602-0304	2	49.50	Calc
X7-SS603-0001	2	70.58	Calc
X7-SS603-0102	2	272.60	Calc
X7-SB603-0203	2	305.57	Calc
X7-SB603-0304	2	512.18	Calc
X7-SB603-0405	2	10.00	Calc
X7-SB603-0506	2	10.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS604-0001	2	52.18	Calc
X7-SS604-0102	2	369.58	Calc
X7-SB604-0203	2	368.05	Calc
X7-SB604-0304	2	10.00	Calc
X7-SS605-0001	2	2420.40	Calc
X7-SS605-0102	2	5270.10	Calc
X7-SB605-0203	2	7741.50	Calc
X7-SB605-0304	2	34.55	Calc
X7-SS606-0001	2	10.00	Calc
X7-SS606-0102	2	10.00	Calc
X7-SS610-0001	2	1654.10	Calc
X7-SS610-0102	2	108.92	Calc
X7-SB610-0203	2	4.65	Calc
X7-SS611-0001	2	1813.20	Calc
X7-SS611-0102	2	2332.30	Calc
X7-SB611-0203	2	207.00	FBL
X7-SB611-0304	2	14.23	Calc
X7-SB611-0405	2	33.40	Calc
X7-SS612-0001	2	317.45	Calc
X7-SS612-0102	2	314.38	Calc
X7-SB612-0203	2	520.62	Calc
X7-SB612-0304	2	10.00	Calc
X7-SS613-0001	2	199.77	Calc
X7-SS613-0102	2	272.98	Calc
X7-SB613-0203	2	10.00	Calc
X7-SB613-0304	2	10.00	Calc
X7-SS614-0001	2	108.15	Calc
X7-SS614-0102	2	21.52	Calc
X7-SS615-0001	2	335.85	Calc
X7-SS615-0102	2	119.27	Calc
X7-SB615-0203	2	23.43	Calc
X7-SB615-0304	2	123.00	FBL
X7-SS616-0001	2	218.17	Calc
X7-SS616-0102	2	297.90	Calc
X7-SB616-0203	2	10.00	Calc
X7-SB616-0304	2	10.00	Calc
X7-SS617-0001	2	107.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS617-0102	2	10.00	Calc
X7-SS618-0001	2	10.00	Calc
X7-SS618-0102	2	10.00	Calc
X7-SS618-0203	2	10.00	Calc
X7-SS619-0001	2	895.13	Calc
X7-SS619-0102	2	2532.70	Calc
X7-SB619-0203	2	2972.40	Calc
X7-SB619-0304	2	1075.30	Calc
X7-SB619-0405	2	10.00	Calc
X7-SB619-0506	2	4.65	Calc
X7-SS620-0001	2	2384.00	Calc
X7-SS620-0102	2	986.37	Calc
X7-SB620-0203	2	161.00	FBL
X7-SB620-0304	2	10.00	Calc
X7-SS621-0001	2	323.97	Calc
X7-SS621-0102	2	154.00	FBL
X7-SB621-0203	2	507.97	Calc
X7-SB621-0304	2	10.00	Calc
X7-SS622-0001	2	98.95	Calc
X7-SS622-0102	2	392.97	Calc
X7-SB622-0203	2	372.27	Calc
X7-SB622-0304	2	13.85	Calc
X7-SS623-0001	2	40.30	Calc
X7-SS623-0102	2	10.00	Calc
X7-SS624-0001	2	334.00	FBL
X7-SS624-0102	2	1145.10	Calc
X7-SB624-0203	2	4628.00	Calc
X7-SB624-0304	2	2821.00	Calc
X7-SB624-0405	2	2144.40	Calc
X7-SB624-0506	2	10.00	Calc
X7-SB624-0607	2	10.00	Calc
X7-SB624-0708	2	10.00	Calc
X7-SS625-0001	2	455.45	Calc
X7-SS625-0102	2	1126.30	Calc
X7-SB625-0203	2	483.43	Calc
X7-SB625-0304	2	677.02	Calc
X7-SB625-0405	2	13.08	Calc

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LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB625-0506	2	10.00	Calc
X7-SB625-0607	2	10.00	Calc
X7-SS626-0001	2	148.00	FBL
X7-SS626-0102	2	10.00	Calc
X7-SB626-0203	2	10.00	Calc
X7-SB626-0304	2	10.00	Calc
X7-SS627-0001	2	105.85	Calc
X7-SS627-0102	2	142.00	FBL
X7-SB627-0203	2	10.00	Calc
X7-SB627-0304	2	10.00	Calc
X7-SS628-0001	2	35.32	Calc
X7-SS628-0102	2	44.13	Calc
X7-SS629-0001	2	440.88	Calc
X7-SS629-0102	2	818.85	Calc
X7-SB629-0203	2	1113.60	Calc
X7-SB629-0304	2	1636.50	Calc
X7-SB629-0405	2	10.00	Calc
X7-SB629-0506	2	10.00	Calc
X7-SS630-0001	2	3499.10	Calc
X7-SS630-0102	2	33.40	Calc
X7-SB630-0203	2	10.00	Calc
X7-SB630-0304	2	10.00	Calc
X7-SS631-0001	2	10.00	Calc
X7-SS631-0102	2	10.00	Calc
X7-SB631-0203	2	10.00	Calc
X7-SS632-0001	2	1758.00	Calc
X7-SS632-0102	2	3246.10	Calc
X7-SB632-0203	2	2917.60	Calc
X7-SB632-0304	2	4735.80	Calc
X7-SB632-0405	2	376.48	Calc
X7-SB632-0506	2	10.00	Calc
X7-SS633-0001	2	6003.40	Calc
X7-SS633-0102	2	67.52	Calc
X7-SB633-0203	2	30.33	Calc
X7-SB633-0304	2	10.78	Calc
X7-SS634-0001	2	1531.90	Calc
X7-SS634-0102	2	2338.40	Calc

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LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB634-0203	2	3986.70	Calc
X7-SB634-0304	2	10.00	Calc
X7-SS635-0001	2	2572.60	Calc
X7-SS635-0102	2	4946.20	Calc
X7-SB635-0203	2	5808.70	Calc
X7-SB635-0304	2	69.05	Calc
X7-SB635-0405	2	4005.10	Calc
X7-SB635-0506	2	10.00	Calc
X7-SS636-0001	2	942.28	Calc
X7-SS636-0102	2	3714.90	Calc
X7-SB636-0203	2	2442.70	Calc
X7-SB636-0304	2	159.52	Calc
X7-SS637-0001	2	2063.50	Calc
X7-SS637-0102	2	594.60	Calc
X7-SB637-0203	2	1804.40	Calc
X7-SB637-0304	2	189.80	Calc
X7-SB637-0405	2	10.00	Calc
X7-SB637-0506	2	10.00	Calc
X7-SS638-0001	2	310.55	Calc
X7-SS638-0102	2	250.37	Calc
X7-SB638-0203	2	463.50	Calc
X7-SB638-0304	2	571.60	Calc
X7-SB638-0405	2	328.00	FBL
X7-SB638-0506	2	13.47	Calc
X7-SS639-0001	2	979.47	Calc
X7-SS639-0102	2	1879.90	Calc
X7-SB639-0203	2	1672.50	Calc
X7-SB639-0304	2	55.25	Calc
X7-SS640-0001	2	312.85	Calc
X7-SS640-0102	2	1517.70	Calc
X7-SB640-0203	2	433.98	Calc
X7-SB640-0304	2	10.00	Calc
X7-SS641-0001	2	76.33	Calc
X7-SS641-0102	2	395.65	Calc
X7-SB641-0203	2	275.28	Calc
X7-SB641-0304	2	10.00	Calc
X7-SS642-0001	2	230.82	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS642-0102	2	125.78	Calc
X7-SB642-0203	2	331.25	Calc
X7-SB642-0304	2	10.00	Calc
X7-SS643-0001	2	166.00	FBL
X7-SS643-0102	2	112.75	Calc
X7-SB643-0203	2	62.92	Calc
X7-SB643-0304	2	10.00	Calc
X7-SS644-0001	2	259.95	Calc
X7-SS644-0102	2	264.55	Calc
X7-SB644-0203	2	950.33	Calc
X7-SB644-0304	2	10.00	Calc
X7-SS645-0001	2	103.55	Calc
X7-SS645-0102	2	318.98	Calc
X7-SB645-0203	2	15.38	Calc
X7-SB645-0304	2	10.00	Calc
X7-SS646-0001	2	90.13	Calc
X7-SS646-0102	2	178.00	FBL
X7-SB646-0203	2	5.80	Calc
X7-SB646-0304	2	10.00	Calc
X7-SS647-0001	2	122.33	Calc
X7-SS647-0102	2	594.60	Calc
X7-SB647-0203	2	10.00	Calc
X7-SB647-0304	2	10.00	Calc
X7-SS648-0001	2	155.30	Calc
X7-SS648-0102	2	425.55	Calc
X7-SB648-0203	2	1.58	Calc
X7-SB648-0304	2	10.00	Calc
X7-SS649-0001	2	146.10	Calc
X7-SS649-0102	2	318.60	Calc
X7-SB649-0203	2	1.20	Calc
X7-SB649-0304	2	10.00	Calc
X7-SS650-0001	2	112.37	Calc
X7-SS650-0102	2	10.78	Calc
X7-SB650-0203	2	10.00	Calc
X7-SS651-0001	2	102.78	Calc
X7-SS651-0102	2	116.00	FBL
X7-SB651-0203	2	33.40	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SB651-0304	2	10.00	Calc
X7-SS652-0001	2	189.00	FBL
X7-SS652-0102	2	10.00	Calc
X7-SB652-0203	2	10.00	Calc
X7-SS653-0001	2	120.03	Calc
X7-SS653-0102	2	44.90	Calc
X7-SB653-0203	2	97.42	Calc
X7-SB653-0304	2	10.00	Calc
X7-SS654-0001	2	44.13	Calc
X7-SS654-0102	2	93.58	Calc
X7-SB654-0203	2	12.32	Calc
X7-SB654-0304	2	10.00	Calc
X7-SS655-0001	2	185.97	Calc
X7-SS655-0102	2	679.70	Calc
X7-SB655-0203	2	95.88	Calc
X7-SB655-0304	2	10.00	Calc
X7-SS656-0001	2	128.00	FBL
X7-SS656-0102	2	137.00	FBL
X7-SB656-0203	2	10.00	Calc
X7-SB656-0304	2	10.00	Calc
X7-SS657-0001	2	445.87	Calc
X7-SS657-0102	2	166.80	Calc
X7-SB657-0203	2	281.42	Calc
X7-SB657-0304	2	367.28	Calc
X7-SB657-0405	2	51.42	Calc
X7-SB657-0506	2	10.00	Calc
X7-SS658-0001	2	669.73	Calc
X7-SS658-0102	2	1409.60	Calc
X7-SB658-0203	2	32.63	Calc
X7-SB658-0304	2	36.08	Calc
X7-SS659-0001	2	227.00	FBL
X7-SS659-0102	2	80.17	Calc
X7-SB659-0203	2	10.00	Calc
X7-SS660-0001	2	272.22	Calc
X7-SS660-0102	2	1920.60	Calc
X7-SB660-0203	2	10.00	Calc
X7-SB660-0304	2	10.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS661-0001	2	164.00	FBL
X7-SS661-0102	2	10.00	Calc
X7-SB661-0203	2	10.00	Calc
X7-SS662-0001	2	779.00	FBL
X7-SS662-0102	2	10.00	Calc
X7-SB662-0203	2	10.00	Calc
X7-SS663-0001	2	228.90	Calc
X7-SS663-0102	2	10.00	Calc
X7-SB663-0203	2	10.00	Calc
X7-SS664-0001	2	10.00	Calc
X7-SS664-0102	2	10.00	Calc
X7-SS665-0001	2	10.00	Calc
X7-SS665-0102	2	10.00	Calc
X7-SS666-0001	2	10.00	Calc
X7-SS666-0102	2	10.00	Calc
X7-SS667-0001	2	38.00	Calc
X7-SS667-0102	2	950.33	Calc
X7-SB667-0203	2	10.00	Calc
X7-SB667-0304	2	10.00	Calc
X7-SS668-0001	2	225.00	FBL
X7-SS668-0102	2	182.00	FBL
X7-SB668-0203	2	10.00	Calc
X7-SB668-0304	2	10.00	Calc
X7-SS669-0001	2	348.12	Calc
X7-SS669-0102	2	1.97	Calc
X7-SB669-0203	2	10.00	Calc
X7-SB669-0304	2	10.00	Calc
X7-SS670-0001	2	2814.50	Calc
X7-SS670-0102	2	3418.60	Calc
X7-SB670-0203	2	10.00	Calc
X7-SB670-0304	2	10.00	Calc
X7-SS671-0001	2	2961.70	Calc
X7-SS671-0102	2	3.50	Calc
X7-SB671-0203	2	10.00	Calc
X7-SS672-0001	2	461.58	Calc
X7-SS672-0102	2	10.00	Calc
X7-SB672-0203	2	10.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS673-0001	2	1959.30	Calc
X7-SS673-0102	2	10.00	Calc
X7-SB673-0203	2	10.00	Calc
X7-SS674-0001	2	846.45	Calc
X7-SS674-0102	2	15.77	Calc
X7-SB674-0203	2	10.00	Calc
X7-SS675-0001	2	865.62	Calc
X7-SS675-0102	2	532.50	Calc
X7-SB675-0203	2	5.42	Calc
X7-SB675-0304	2	10.00	Calc
X7-SS676-0001	2	977.55	Calc
X7-SS676-0102	2	411.37	Calc
X7-SB676-0203	2	10.00	Calc
X7-SB676-0304	2	10.00	Calc
X7-SS677-0001	2	391.05	Calc
X7-SS677-0102	2	744.10	Calc
X7-SB677-0203	2	1104.40	Calc
X7-SB677-0304	2	9.25	Calc
X7-SS678-0001	2	107.38	Calc
X7-SS678-0102	2	488.80	Calc
X7-SB678-0203	2	10.00	Calc
X7-SB678-0304	2	10.00	Calc
X7-SS679-0001	2	236.18	Calc
X7-SS679-0102	2	568.53	Calc
X7-SB679-0203	2	18.83	Calc
X7-SB679-0304	2	10.00	Calc
X7-SS680-0001	2	159.00	FBL
X7-SS680-0102	2	249.00	FBL
X7-SB680-0203	2	10.00	Calc
X7-SB680-0304	2	10.00	Calc
X7-SS681-0001	2	152.00	FBL
X7-SS681-0102	2	29.57	Calc
X7-SB681-0203	2	10.00	Calc
X7-SS682-0001	2	161.00	FBL
X7-SS682-0102	2	10.00	Calc
X7-SB682-0203	2	10.00	Calc
X7-SS683-0001	2	70.58	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS683-0102	2	10.00	Calc
X7-SS684-0001	2	10.00	Calc
X7-SS684-0102	2	10.00	Calc
X7-SS685-0001	2	10.00	Calc
X7-SS685-0102	2	10.00	Calc
X7-SS686-0001	2	448.93	Calc
X7-SS686-0102	2	80.17	Calc
X7-SB686-0203	2	7.33	Calc
X7-SS687-0001	2	262.00	FBL
X7-SS687-0102	2	92.05	Calc
X7-SB687-0203	2	10.00	Calc
X7-SS688-0001	2	10.00	Calc
X7-SS688-0102	2	3.50	Calc
X7-SS689-0001	2	10.00	Calc
X7-SS689-0102	2	10.00	Calc
X7-SB689-0203	2	10.00	Calc
X7-SS690-0001	2	10.00	Calc
X7-SS690-0102	2	29.57	Calc
X7-SS691-0001	2	10.00	Calc
X7-SS691-0102	2	320.52	Calc
X7-SB691-0203	2	117.00	FBL
X7-SB691-0304	2	10.00	Calc
X7-SS692-0001	2	1914.80	Calc
X7-SS692-0102	2	451.23	Calc
X7-SB692-0203	2	10.00	Calc
X7-SB692-0304	2	10.00	Calc
X7-SS693-0001	2	29.18	Calc
X7-SS693-0102	2	10.00	Calc
X7-SS694-0001	2	142.00	FBL
X7-SS694-0102	2	15.38	Calc
X7-SB694-0203	2	10.00	Calc
X7-SS695-0001	2	70.20	Calc
X7-SS695-0102	2	11.17	Calc
X7-SS696-0001	2	74.03	Calc
X7-SS696-0102	2	853.35	Calc
X7-SB696-0203	2	148.00	FBL
X7-SB696-0304	2	10.00	Calc

TABLE 6-11

LEAD SUMMARY - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS697-0001	2	80.93	Calc
X7-SS697-0102	2	10.00	Calc
X7-SS698-0001	2	10.00	Calc
X7-SS698-0102	2	10.00	Calc
X7-SS699-0001	2	23.82	Calc
X7-SS699-0102	2	5.80	Calc
X7-SS700-0001	2	10.00	Calc
X7-SS700-0102	2	10.00	Calc
X7-SS701-0001	2	3444.70	Calc
X7-SS701-0102	2	346.58	Calc
X7-SB701-0203	2	10.00	Calc
X7-SB701-0304	2	17.68	Calc
X7-SS702-0001	2	24.20	Calc
X7-SS702-0102	2	16.53	Calc
X7-SS703-0001	2	51.03	Calc
X7-SS703-0102	2	10.00	Calc
AVG LEAD CONCENTRATION		**400.95**	

Indicates lead concentration greater than 400 mg/kg

bkg = background
Calc = lead calculated value
FBL = Fixed-base laboratory
XRF = X-Ray fluorescence

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
Central Area of Northern Zone - 400-yard Firing Berm						
X7-SS043-0002	RFI-2007	56	Calc	No	---	56
X7-SS044-0002	RFI-2007	**199**	FBL	Yes	1	27
X7-SS044-0102	2	**263**	Calc	Yes	1	27
X7-SB044-0203	2	10	Calc	Yes	1	27
X7-SS045-0002	RFI-2007	**286**	FBL	Yes	1	27
X7-SB045-0203	2	**262**	Calc	Yes	1	27
X7-SB045-0304	2	**397**	Calc	Yes	1	27
X7-SB045-0405	2	76	Calc	Yes	1	27
X7-SB045-0506	2	56	Calc	No	1	56
X7-SS046-0002	RFI-2007	**1100**	FBL	Yes	1	27
X7-SB046-0203	2	**768**	Calc	Yes	1	27
X7-SB046-0304	2	**441**	Calc	Yes	1	27
X7-SB046-0405	2	**568**	Calc	Yes	1	27
X7-SB046-0506	2	43	Calc	No	1	43
X7-SS047-0002	RFI-2007	63	Calc	Yes	1	27
X7-SS048-0002	RFI-2007	190	FBL	Yes	1	27
X7-SS177-0002	RFI-2007	115	FBL	Yes	1	27
X7-SS178-0002	RFI-2007	41	FBL	No	---	41
X7-SS179-0002	RFI-2007	84	FBL	No	---	84
X7-SS180-0002	RFI-2007	89	FBL	Yes	1	27
X7-SS181-0002	RFI-2007	**212**	FBL	Yes	1	27
X7-SB181-0203	2	59	Calc	Yes	1	27
X7-SB181-0304	2	5	Calc	Yes	1	27
X7-SS182-0002	RFI-2007	95	FBL	Yes	1	27
X7-SS291-0001	1	**1186**	Calc	Yes	1	27
X7-SS291-0102	1	**365**	Calc	Yes	1	27
X7-SB291-0203	1	**203**	FBL	Yes	1	27
X7-SB291-0304	2	**367**	Calc	Yes	1	27
X7-SB291-0405	2	18	Calc	Yes	1	27
X7-SS292-0001	1	**226**	Calc	Yes	1	27
X7-SS292-0102	1	91	Calc	Yes	1	27
X7-SS293-0001	1	72	Calc	Yes	1	27
X7-SS294-0001	1	148	Calc	Yes	1	27
X7-SS294-0102	1	62	Calc	Yes	1	27
X7-SS295-0001	1	**339**	Calc	Yes	1	27
X7-SS295-0102	1	**386**	Calc	Yes	1	27
X7-SB295-0203	1	**477**	Calc	Yes	1	27
X7-SB295-0304	2	**246**	FBL	Yes	1	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB295-0405	2	10	Calc	Yes	1	27
X7-SS296-0001	1	**818**	Calc	Yes	1	27
X7-SS296-0102	1	**304**	Calc	Yes	1	27
X7-SB296-0203	1	**280**	Calc	Yes	1	27
X7-SB296-0304	2	**551**	Calc	Yes	1	27
X7-SB296-0405	2	17	Calc	Yes	1	27
X7-SB296-0506	2	10	Calc	No	1	10
X7-SB296-0607	2	10	Calc	No	1	10
X7-SS297-0001	1	**646**	Calc	Yes	1	27
X7-SS297-0102	1	**366**	Calc	Yes	1	27
X7-SB297-0203	1	**232**	Calc	Yes	1	27
X7-SB297-0304	2	16	Calc	Yes	1	27
X7-SB297-0405	2	10	Calc	Yes	1	27
X7-SS298-0001	1	**356**	Calc	Yes	1	27
X7-SS298-0102	1	**414**	Calc	Yes	1	27
X7-SB298-0203	2	181	Calc	Yes	1	27
X7-SB298-0304	2	**807**	Calc	Yes	1	27
X7-SB298-0405	2	142	FBL	Yes	1	27
X7-SB298-0506	2	24	Calc	No	1	24
X7-SS299-0001	1	**338**	Calc	Yes	1	27
X7-SS299-0102	1	**478**	Calc	Yes	1	27
X7-SB299-0203	1	122	Calc	Yes	1	27
X7-SS300-0001	1	**230**	Calc	Yes	1	27
X7-SS300-0102	1	**228**	Calc	Yes	1	27
X7-SB300-0203	2	86	Calc	Yes	1	27
X7-SB300-0304	2	190	Calc	Yes	1	27
X7-SB300-0405	2	**631**	Calc	Yes	1	27
X7-SB300-0506	2	10	Calc	No	1	10
X7-SS301-0001	1	164	Calc	Yes	1	27
X7-SS301-0102	1	**357**	Calc	Yes	1	27
X7-SB301-0203	1	**517**	Calc	Yes	1	27
X7-SB301-0304	2	**299**	Calc	Yes	1	27
X7-SB301-0405	2	0	Calc	Yes	1	27
X7-SS302-0001	1	159	Calc	Yes	1	27
X7-SS302-0102	1	76	Calc	Yes	1	27
X7-SS303-0001	1	**261**	Calc	Yes	1	27
X7-SS303-0102	1	**532**	Calc	Yes	1	27
X7-SB303-0203	2	20	Calc	Yes	1	27
X7-SB303-0304	2	10	Calc	Yes	1	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS304-0001	1	88	Calc	Yes	1	27
X7-SS305-0001	1	**311**	Calc	Yes	1	27
X7-SS305-0102	1	68	Calc	Yes	1	27
X7-SS306-0001	1	**484**	Calc	Yes	1	27
X7-SS306-0102	1	160	Calc	Yes	1	27
X7-SB306-0203	1	83	Calc	Yes	1	27
X7-SS307-0001	1	**568**	Calc	Yes	1	27
X7-SS307-0102	1	48	Calc	Yes	1	27
X7-SS308-0001	1	**469**	Calc	Yes	1	27
X7-SS308-0102	1	**235**	Calc	Yes	1	27
X7-SB308-0203	1	24	Calc	Yes	1	27
X7-SS345-0001	1	**518**	Calc	Yes	1	27
X7-SS345-0102	1	78	FBL	Yes	1	27
X7-SS347-0001	1	**541**	Calc	Yes	1	27
X7-SS347-0102	1	92	FBL	Yes	1	27
X7-SS349-0001	1	166	Calc	Yes	1	27
X7-SS349-0102	1	**601**	Calc	Yes	1	27
X7-SB349-0203	2	40	Calc	Yes	1	27
X7-SB349-0304	2	9	Calc	Yes	1	27
X7-SS351-0001	1	191	FBL	Yes	1	27
X7-SS351-0102	1	**290**	FBL	Yes	1	27
X7-SB351-0203	2	**542**	Calc	Yes	1	27
X7-SB351-0304	2	114	FBL	Yes	1	27
X7-SB351-0405	2	10	Calc	Yes	1	27
X7-SB351-0506	2	128	FBL	No	1	128
X7-SB351-0607	2	10	Calc	No	1	10
X7-SB351-0708	2	10	Calc	No	1	10
X7-SS353-0001	1	157	FBL	Yes	1	27
X7-SS355-0001	1	136	FBL	Yes	1	27
X7-SS355-0102	1	110	Calc	Yes	1	27
X7-SS357-0001	1	**408**	Calc	Yes	1	27
X7-SS357-0102	1	69	Calc	Yes	1	27
X7-SS358-0001	1	**370**	Calc	Yes	1	27
X7-SS358-0102	1	**455**	Calc	Yes	1	27
X7-SB358-0203	2	**343**	Calc	Yes	1	27
X7-SB358-0304	2	159	Calc	Yes	1	27
X7-SB358-0405	2	**284**	Calc	Yes	1	27
X7-SB358-0506	2	**283**	FBL	No	1	283
X7-SB358-0607	2	10	Calc	No	1	10

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB358-0708	2	10	Calc	No	1	10
X7-SS360-0001	1	**232**	Calc	Yes	1	27
X7-SS360-0102	1	**302**	Calc	Yes	1	27
X7-SB360-0203	2	**2045**	Calc	Yes	1	27
X7-SB360-0304	2	88	Calc	Yes	1	27
X7-SS361-0001	1	**299**	Calc	Yes	1	27
X7-SS361-0102	1	**291**	Calc	Yes	1	27
X7-SB361-0203	2	10	Calc	Yes	1	27
X7-SB361-0304	2	105	Calc	Yes	1	27
X7-SS363-0001	1	180	FBL	No	---	180
X7-SS363-0102	1	10	Calc	No	---	10
X7-SS365-0001	1	**412**	Calc	Yes	1	27
X7-SS365-0102	1	**403**	Calc	Yes	1	27
X7-SB365-0203	2	10	Calc	Yes	1	27
X7-SB365-0304	2	10	Calc	Yes	1	27
X7-SS368-0001	1	187	Calc	Yes	1	27
X7-SS368-0102	1	**660**	Calc	Yes	1	27
X7-SB368-0203	2	88	FBL	Yes	1	27
X7-SB368-0304	2	10	Calc	Yes	1	27
X7-SS369-0001	1	**869**	Calc	Yes	1	27
X7-SS369-0102	1	**245**	FBL	Yes	1	27
X7-SB369-0203	2	**556**	Calc	Yes	1	27
X7-SB369-0304	2	**675**	Calc	Yes	1	27
X7-SB369-0405	2	20	Calc	Yes	1	27
X7-SB369-0506	2	15	Calc	No	1	15
X7-SS391-0001	1	152	Calc	Yes	1	27
X7-SS391-0102	1	**566**	Calc	Yes	1	27
X7-SB391-0203	1	52	Calc	Yes	1	27
X7-SS392-0001	1	107	FBL	Yes	1	27
X7-SS393-0001	1	147	Calc	Yes	1	27
X7-SS393-0102	1	**226**	FBL	Yes	1	27
X7-SB393-0203	1	186	Calc	Yes	1	27
X7-SS394-0001	1	142	Calc	Yes	1	27
X7-SS394-0102	1	**285**	Calc	Yes	1	27
X7-SB394-0203	1	36	Calc	Yes	1	27
X7-SS395-0001	1	**246**	Calc	Yes	1	27
X7-SS395-0102	1	**535**	Calc	Yes	1	27
X7-SB395-0203	1	**321**	Calc	Yes	1	27
X7-SB395-0304	2	**538**	Calc	Yes	1	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB395-0405	2	160	FBL	Yes	1	27
X7-SB395-0506	2	10	Calc	No	1	10
X7-SB395-0607	2	10	Calc	No	1	10
X7-SS396-0001	1	145	Calc	Yes	1	27
X7-SS396-0102	1	**384**	Calc	Yes	1	27
X7-SB396-0203	1	**303**	Calc	Yes	1	27
X7-SS398-0001	1	**293**	Calc	Yes	1	27
X7-SS398-0102	1	**458**	Calc	Yes	1	27
X7-SB398-0203	2	**556**	Calc	Yes	1	27
X7-SB398-0304	2	**294**	Calc	Yes	1	27
X7-SB398-0405	2	69	Calc	Yes	1	27
X7-SB398-0506	2	4	Calc	No	1	4
X7-SS400-0001	1	104	Calc	Yes	1	27
X7-SS401-0001	1	97	FBL	Yes	1	27
X7-SS401-0102	1	**337**	Calc	Yes	1	27
X7-SB401-0203	2	10	Calc	Yes	1	27
X7-SB401-0304	2	10	Calc	Yes	1	27
X7-SS402-0001	1	90	FBL	Yes	1	27
X7-SS404-0001	1	**292**	Calc	Yes	1	27
X7-SS404-0102	1	83	Calc	Yes	1	27
X7-SS406-0001	1	80	Calc	Yes	1	27
X7-SS407-0001	1	74	FBL	Yes	---	27
X7-SS408-0001	1	**246**	FBL	Yes	1	27
X7-SS408-0102	1	32	Calc	Yes	1	27
X7-SB409-0304	1	**1087**	Calc	Yes	1	27
X7-SB409-0405	2	**406**	Calc	Yes	1	27
X7-SB409-0506	2	10	Calc	No	1	10
X7-SS410-0001	1	12	FBL	No	---	12
X7-SB411-0304	1	52	Calc	Yes	1	27
X7-SS412-0001	1	189	FBL	No	---	189
X7-SS412-0102	1	32	Calc	No	---	32
X7-SB413-0304	1	**869**	Calc	Yes	1	27
X7-SS414-0001	1	**199**	FBL	No	---	199
X7-SS414-0102	1	104	Calc	No	---	104
X7-SS415-0001	1	105	FBL	No	---	105
X7-SS415-0102	1	36	Calc	No	---	36
X7-SS416-0001	1	78	FBL	No	---	78
X7-SB417-0304	1	**194**	Calc	Yes	1	27
X7-SB417-0405	1	159	Calc	Yes	1	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB417-0506	2	108	Calc	No	1	108
X7-SB417-0607	2	10	Calc	No	1	10
X7-SS418-0001	1	48	Calc	Yes	1	27
X7-SS420-0001	1	119	Calc	Yes	1	27
X7-SS420-0102	1	**445**	Calc	Yes	1	27
X7-SS420-0203	1	77	Calc	Yes	1	27
X7-SS421-0001	1	**681**	Calc	Yes	1	27
X7-SS421-0102	1	20	Calc	Yes	1	27
X7-SS422-0001	1	**399**	Calc	Yes	1	27
X7-SS422-0102	1	**343**	FBL	Yes	1	27
X7-SS422-0203	1	49	Calc	Yes	1	27
X7-SS551-0001	2	**433**	Calc	Yes	1	27
X7-SS551-0102	2	172	Calc	Yes	1	27
X7-SB551-0203	2	169	Calc	Yes	1	27
X7-SB551-0304	2	**249**	Calc	Yes	1	27
X7-SB551-0405	2	**452**	Calc	Yes	1	27
X7-SB551-0506	2	10	Calc	No	1	10
X7-SS552-0001	2	22	Calc	Yes	1	27
X7-SS552-0102	2	**253**	Calc	Yes	1	27
X7-SB552-0203	2	124	Calc	Yes	1	27
X7-SB552-0304	2	**263**	Calc	Yes	1	27
X7-SB552-0405	2	**1075**	Calc	Yes	1	27
X7-SB552-0506	2	10	Calc	No	1	10
X7-SS553-0001	2	**399**	Calc	Yes	1	27
X7-SS553-0102	2	129	Calc	Yes	1	27
X7-SB553-0203	2	107	Calc	Yes	1	27
X7-SB553-0304	2	27	Calc	Yes	1	27
X7-SS554-0001	2	137	Calc	Yes	1	27
X7-SS554-0102	2	117	Calc	Yes	1	27
X7-SB554-0203	2	**1338**	Calc	Yes	1	27
X7-SB554-0304	2	130	Calc	Yes	1	27
X7-SB554-0405	2	32	Calc	Yes	1	27
X7-SB554-0506	2	10	Calc	No	1	10
X7-SS555-0001	2	88	Calc	Yes	1	27
X7-SS555-0102	2	**536**	Calc	Yes	1	27
X7-SB555-0203	2	109	Calc	Yes	1	27
X7-SB555-0304	2	10	Calc	Yes	1	27
X7-SS556-0001	2	**373**	Calc	Yes	1	27
X7-SS556-0102	2	**2242**	Calc	Yes	1	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB556-0203	2	**312**	Calc	Yes	1	27
X7-SB556-0304	2	**289**	Calc	Yes	1	27
X7-SB556-0405	2	**193**	Calc	Yes	1	27
X7-SB556-0506	2	**701**	Calc	No	1	**701**
X7-SB556-0607	2	108	Calc	No	1	108
X7-SB556-0708	2	23	Calc	No	1	23
X7-SS557-0001	2	**295**	Calc	Yes	1	27
X7-SS557-0102	2	**416**	Calc	Yes	1	27
X7-SB557-0203	2	**824**	Calc	Yes	1	27
X7-SB557-0304	2	**1935**	Calc	Yes	1	27
X7-SB557-0405	2	10	Calc	Yes	1	27
X7-SB557-0506	2	2	Calc	No	1	2
X7-SS558-0001	2	**547**	Calc	Yes	1	27
X7-SS558-0102	2	**220**	Calc	Yes	1	27
X7-SB558-0203	2	72	Calc	Yes	1	27
X7-SB558-0304	2	**1869**	Calc	Yes	1	27
X7-SB558-0405	2	10	Calc	Yes	1	27
X7-SB558-0506	2	**217**	FBL	No	1	217
X7-SB558-0607	2	15	Calc	No	1	15
X7-SB558-0708	2	10	Calc	No	1	10
X7-SS559-0001	2	**466**	Calc	Yes	1	27
X7-SS559-0102	2	**1028**	Calc	Yes	1	27
X7-SB559-0203	2	39	Calc	Yes	1	27
X7-SB559-0304	2	10	Calc	Yes	1	27
X7-SS560-0001	2	**365**	Calc	Yes	1	27
X7-SS560-0102	2	**824**	Calc	Yes	1	27
X7-SB560-0203	2	131	Calc	Yes	1	27
X7-SB560-0304	2	38	Calc	Yes	1	27
X7-SS561-0001	2	**215**	Calc	Yes	1	27
X7-SS561-0102	2	99	Calc	Yes	1	27
X7-SB561-0203	2	144	FBL	Yes	1	27
X7-SB561-0304	2	10	Calc	Yes	1	27
X7-SB561-0405	2	10	Calc	Yes	1	27
X7-SS562-0001	2	**393**	Calc	Yes	1	27
X7-SS562-0102	2	**386**	Calc	Yes	1	27
X7-SB562-0203	2	173	Calc	Yes	1	27
X7-SB562-0304	2	10	Calc	Yes	1	27
X7-SS563-0001	2	**195**	FBL	No	---	195
X7-SS563-0102	2	10	Calc	No	---	10

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB563-0203	2	10	Calc	No	---	10
X7-SB563-0304	2	10	Calc	No	---	10
X7-SS564-0001	2	**222**	Calc	No	---	222
X7-SS564-0102	2	36	Calc	No	---	36
X7-SB564-0203	2	10	Calc	No	---	10
X7-SB564-0304	2	10	Calc	No	---	10
X7-SS565-0001	2	**2058**	Calc	Yes	4	27
X7-SS565-0102	2	**5082**	Calc	Yes	4	27
X7-SB565-0203	2	**966**	Calc	Yes	4	27
X7-SB565-0304	2	10	Calc	Yes	4	27
X7-SB565-0405	2	8	Calc	No	4	8
X7-SB565-0506	2	10	Calc	No	4	10
X7-SS566-0001	2	**796**	Calc	Yes	4	27
X7-SS566-0102	2	**338**	Calc	Yes	4	27
X7-SB566-0203	2	**1727**	Calc	Yes	4	27
X7-SB566-0304	2	52	Calc	Yes	4	27
X7-SB566-0405	2	3	Calc	No	4	3
X7-SS581-0001	2	**378**	Calc	Yes	1	27
X7-SS581-0102	2	10	Calc	Yes	1	27
X7-SS582-0001	2	**1037**	Calc	Yes	4	27
X7-SS582-0102	2	**4003**	Calc	Yes	4	27
X7-SB582-0203	2	**2314**	Calc	Yes	4	27
X7-SB582-0304	2	**207**	Calc	Yes	4	27
X7-SB582-0405	2	8	Calc	No	4	8
X7-SB582-0506	2	10	Calc	No	4	10
X7-SS583-0001	2	**4092**	Calc	Yes	4	27
X7-SS583-0102	2	**2426**	Calc	Yes	4	27
X7-SB583-0203	2	**1848**	Calc	Yes	4	27
X7-SB583-0304	2	10	Calc	Yes	4	27
X7-SB583-0405	2	10	Calc	No	4	10
X7-SB583-0506	2	10	Calc	No	4	10
X7-SS584-0001	2	**242**	FBL	No	---	242
X7-SS584-0102	2	10	Calc	No	---	10
X7-SB584-0203	2	10	Calc	No	---	10
X7-SB584-0304	2	10	Calc	No	---	10
X7-SS585-0001	2	175	Calc	No	---	175
X7-SS585-0102	2	10	Calc	No	---	10
X7-SS586-0001	2	**386**	Calc	No	---	386
X7-SS586-0102	2	**204**	FBL	No	---	204

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS587-0001	2	138	FBL	No	---	138
X7-SS587-0102	2	100	Calc	No	---	100
X7-SS588-0001	2	130	Calc	No	---	130
X7-SS588-0102	2	100	Calc	No	---	100
X7-SB588-0203	2	62	XRF	No	---	62
X7-SS589-0001	2	**409**	Calc	Yes	1	27
X7-SS589-0102	2	4	Calc	Yes	1	27
X7-SB589-0203	2	**240**	Calc	Yes	1	27
X7-SB589-0304	2	**293**	Calc	Yes	1	27
X7-SS590-0001	2	163	Calc	Yes	1	27
X7-SS590-0102	2	10	Calc	Yes	1	27
X7-SS591-0001	2	173	Calc	Yes	1	27
X7-SS591-0102	2	**865**	Calc	Yes	1	27
X7-SB591-0203	2	**322**	Calc	Yes	1	27
X7-SB591-0304	2	**355**	Calc	Yes	1	27
X7-SS592-0001	2	**231**	Calc	Yes	1	27
X7-SS592-0102	2	**303**	Calc	Yes	1	27
X7-SB592-0203	2	**416**	Calc	Yes	1	27
X7-SB592-0304	2	**519**	Calc	Yes	1	27
X7-SB592-0405	2	**1401**	Calc	Yes	1	27
X7-SB592-0506	2	**240**	FBL	No	1	240
X7-SB592-0607	2	23	Calc	No	1	23
X7-SB592-0708	2	10	Calc	No	1	10
X7-SS593-0001	2	**531**	Calc	Yes	1	27
X7-SS593-0102	2	**394**	Calc	Yes	1	27
X7-SB593-0203	2	10	Calc	Yes	1	27
X7-SB593-0304	2	20	FBL	Yes	1	27
X7-SS594-0001	2	**273**	Calc	Yes	1	27
X7-SS594-0102	2	**477**	Calc	Yes	1	27
X7-SB594-0203	2	**699**	Calc	Yes	1	27
X7-SB594-0304	2	78	Calc	Yes	1	27
X7-SS595-0001	2	157	FBL	No	---	157
X7-SS595-0102	2	10	Calc	No	---	10
X7-SS596-0001	2	10	Calc	No	---	10
X7-SS596-0102	2	10	Calc	No	---	10
X7-SS597-0001	2	89	Calc	No	---	89
X7-SS597-0102	2	10	Calc	No	---	10
X7-SS598-0001	2	21	Calc	No	---	21
X7-SS598-0102	2	10	Calc	No	---	10

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS599-0001	2	10	Calc	No	---	10
X7-SS599-0102	2	10	Calc	No	---	10
X7-SS600-0001	2	7	Calc	Yes	4	27
X7-SS600-0102	2	10	Calc	Yes	4	27
X7-SS601-0001	2	**1638**	Calc	Yes	4	27
X7-SS601-0102	2	**2139**	Calc	Yes	4	27
X7-SB601-0203	2	**572**	Calc	Yes	4	27
X7-SB601-0304	2	7	Calc	Yes	4	27
X7-SS602-0001	2	114	Calc	No	---	114
X7-SS602-0102	2	**282**	Calc	No	---	282
X7-SB602-0203	2	129	Calc	No	---	129
X7-SB602-0304	2	50	Calc	No	---	50
X7-SS603-0001	2	71	Calc	Yes	1	27
X7-SS603-0102	2	**273**	Calc	Yes	1	27
X7-SB603-0203	2	**306**	Calc	Yes	1	27
X7-SB603-0304	2	**512**	Calc	Yes	1	27
X7-SB603-0405	2	10	Calc	Yes	1	27
X7-SB603-0506	2	10	Calc	No	1	10
X7-SS604-0001	2	52	Calc	Yes	1	27
X7-SS604-0102	2	**370**	Calc	Yes	1	27
X7-SB604-0203	2	**368**	Calc	Yes	1	27
X7-SB604-0304	2	10	Calc	Yes	1	27
X7-SS605-0001	2	**2420**	Calc	Yes	4	27
X7-SS605-0102	2	**5270**	Calc	Yes	4	27
X7-SB605-0203	2	**7742**	Calc	Yes	4	27
X7-SB605-0304	2	35	Calc	Yes	4	27
X7-SS606-0001	2	10	Calc	No	---	10
X7-SS606-0102	2	10	Calc	No	---	10
X7-SS610-0001	2	**1654**	Calc	Yes	4	27
X7-SS610-0102	2	109	Calc	Yes	4	27
X7-SB610-0203	2	5	Calc	Yes	4	27
X7-SS611-0001	2	**1813**	Calc	Yes	4	27
X7-SS611-0102	2	**2332**	Calc	Yes	4	27
X7-SB611-0203	2	**207**	FBL	Yes	4	27
X7-SB611-0304	2	14	Calc	Yes	4	27
X7-SB611-0405	2	33	Calc	No	4	33
X7-SS612-0001	2	**317**	Calc	No	---	**317**
X7-SS612-0102	2	**314**	Calc	No	---	**314**
X7-SB612-0203	2	**521**	Calc	No	---	**521**

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB612-0304	2	10	Calc	No	---	10
X7-SS613-0001	2	**200**	Calc	No	---	200
X7-SS613-0102	2	**273**	Calc	No	---	273
X7-SB613-0203	2	10	Calc	No	---	10
X7-SB613-0304	2	10	Calc	No	---	10
X7-SS614-0001	2	108	Calc	No	---	108
X7-SS614-0102	2	22	Calc	No	---	22
X7-SS615-0001	2	**336**	Calc	Yes	1	27
X7-SS615-0102	2	119	Calc	Yes	1	27
X7-SB615-0203	2	23	Calc	Yes	1	27
X7-SB615-0304	2	123	FBL	Yes	1	27
X7-SS616-0001	2	**218**	Calc	No	---	218
X7-SS616-0102	2	**298**	Calc	No	---	298
X7-SB616-0203	2	10	Calc	No	---	10
X7-SB616-0304	2	10	Calc	No	---	10
X7-SS617-0001	2	107	Calc	No	---	107
X7-SS617-0102	2	10	Calc	No	---	10
X7-SS618-0001	2	10	Calc	No	---	10
X7-SS618-0102	2	10	Calc	No	---	10
X7-SS618-0203	2	10	Calc	No	---	10
X7-SS619-0001	2	**895**	Calc	Yes	5	27
X7-SS619-0102	2	**2533**	Calc	Yes	5	27
X7-SB619-0203	2	**2972**	Calc	Yes	5	27
X7-SB619-0304	2	**1075**	Calc	Yes	5	27
X7-SB619-0405	2	10	Calc	Yes	5	27
X7-SB619-0506	2	5	Calc	No	5	5
X7-SS620-0001	2	**2384**	Calc	Yes	4	27
X7-SS620-0102	2	**986**	Calc	Yes	4	27
X7-SB620-0203	2	161	FBL	Yes	4	27
X7-SB620-0304	2	10	Calc	Yes	4	27
X7-SS621-0001	2	**324**	Calc	No	---	**324**
X7-SS621-0102	2	154	FBL	No	---	154
X7-SB621-0203	2	**508**	Calc	No	---	**508**
X7-SB621-0304	2	10	Calc	No	---	10
X7-SS622-0001	2	99	Calc	No	---	99
X7-SS622-0102	2	**393**	Calc	No	---	393
X7-SB622-0203	2	**372**	Calc	No	---	372
X7-SB622-0304	2	14	Calc	No	---	14
X7-SS623-0001	2	40	Calc	No	---	40

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS623-0102	2	10	Calc	No	---	10
X7-SS624-0001	2	**334**	FBL	Yes	5	27
X7-SS624-0102	2	**1145**	Calc	Yes	5	27
X7-SB624-0203	2	**4628**	Calc	Yes	5	27
X7-SB624-0304	2	**2821**	Calc	Yes	5	27
X7-SB624-0405	2	**2144**	Calc	Yes	5	27
X7-SB624-0506	2	10	Calc	No	5	10
X7-SB624-0607	2	10	Calc	No	5	10
X7-SB624-0708	2	10	Calc	No	5	10
X7-SS625-0001	2	**455**	Calc	Yes	5	27
X7-SS625-0102	2	**1126**	Calc	Yes	5	27
X7-SB625-0203	2	**483**	Calc	Yes	5	27
X7-SB625-0304	2	**677**	Calc	Yes	5	27
X7-SB625-0405	2	13	Calc	Yes	5	27
X7-SB625-0506	2	10	Calc	No	5	10
X7-SB625-0607	2	10	Calc	No	5	10
X7-SS626-0001	2	148	FBL	No	---	148
X7-SS626-0102	2	10	Calc	No	---	10
X7-SB626-0203	2	10	Calc	No	---	10
X7-SB626-0304	2	10	Calc	No	---	10
X7-SS627-0001	2	106	Calc	No	---	106
X7-SS627-0102	2	142	FBL	No	---	142
X7-SB627-0203	2	10	Calc	No	---	10
X7-SB627-0304	2	10	Calc	No	---	10
X7-SS628-0001	2	35	Calc	No	---	35
X7-SS628-0102	2	44	Calc	No	---	44
X7-SS629-0001	2	**441**	Calc	Yes	5	27
X7-SS629-0102	2	**819**	Calc	Yes	5	27
X7-SB629-0203	2	**1114**	Calc	Yes	5	27
X7-SB629-0304	2	**1637**	Calc	Yes	5	27
X7-SB629-0405	2	10	Calc	No	5	10
X7-SB629-0506	2	10	Calc	No	5	10
X7-SS630-0001	2	**3499**	Calc	Yes	4	27
X7-SS630-0102	2	33	Calc	Yes	4	27
X7-SB630-0203	2	10	Calc	Yes	4	27
X7-SB630-0304	2	10	Calc	Yes	4	27
X7-SS631-0001	2	10	Calc	Yes	5	27
X7-SS631-0102	2	10	Calc	Yes	5	27
X7-SB631-0203	2	10	Calc	Yes	5	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS632-0001	2	**1758**	Calc	Yes	5	27
X7-SS632-0102	2	**3246**	Calc	Yes	5	27
X7-SB632-0203	2	**2918**	Calc	Yes	5	27
X7-SB632-0304	2	**4736**	Calc	Yes	5	27
X7-SB632-0405	2	**376**	Calc	Yes	5	27
X7-SB632-0506	2	10	Calc	No	5	10
X7-SS633-0001	2	**6003**	Calc	Yes	5	27
X7-SS633-0102	2	68	Calc	Yes	5	27
X7-SB633-0203	2	30	Calc	Yes	5	27
X7-SB633-0304	2	11	Calc	Yes	5	27
X7-SS634-0001	2	**1532**	Calc	Yes	5	27
X7-SS634-0102	2	**2338**	Calc	Yes	5	27
X7-SB634-0203	2	**3987**	Calc	Yes	5	27
X7-SB634-0304	2	10	Calc	Yes	5	27
X7-SS635-0001	2	**2573**	Calc	Yes	5	27
X7-SS635-0102	2	**4946**	Calc	Yes	5	27
X7-SB635-0203	2	**5809**	Calc	Yes	5	27
X7-SB635-0304	2	69	Calc	Yes	5	27
X7-SB635-0405	2	**4005**	Calc	Yes	5	27
X7-SB635-0506	2	10	Calc	No	5	10
X7-SS636-0001	2	**942**	Calc	Yes	5	27
X7-SS636-0102	2	**3715**	Calc	Yes	5	27
X7-SB636-0203	2	**2443**	Calc	Yes	5	27
X7-SB636-0304	2	160	Calc	Yes	5	27
X7-SS637-0001	2	**2064**	Calc	Yes	5	27
X7-SS637-0102	2	**595**	Calc	Yes	5	27
X7-SB637-0203	2	**1804**	Calc	Yes	5	27
X7-SB637-0304	2	190	Calc	Yes	5	27
X7-SB637-0405	2	10	Calc	Yes	5	27
X7-SB637-0506	2	10	Calc	No	5	10
X7-SS638-0001	2	**311**	Calc	Yes	5	27
X7-SS638-0102	2	**250**	Calc	Yes	5	27
X7-SB638-0203	2	**464**	Calc	Yes	5	27
X7-SB638-0304	2	**572**	Calc	Yes	5	27
X7-SB638-0405	2	**328**	FBL	Yes	5	27
X7-SB638-0506	2	13	Calc	No	5	13
X7-SS639-0001	2	**979**	Calc	Yes	5	27
X7-SS639-0102	2	**1880**	Calc	Yes	5	27
X7-SB639-0203	2	**1673**	Calc	Yes	5	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB639-0304	2	55	Calc	Yes	5	27
X7-SS640-0001	2	313	Calc	Yes	8	27
X7-SS640-0102	2	**1518**	Calc	Yes	8	27
X7-SB640-0203	2	**434**	Calc	Yes	8	27
X7-SB640-0304	2	10	Calc	Yes	8	27
X7-SS641-0001	2	76	Calc	Yes	8	27
X7-SS641-0102	2	**396**	Calc	Yes	8	27
X7-SB641-0203	2	**275**	Calc	Yes	8	27
X7-SB641-0304	2	10	Calc	Yes	8	27
X7-SS642-0001	2	**231**	Calc	No	---	231
X7-SS642-0102	2	126	Calc	No	---	126
X7-SB642-0203	2	**331**	Calc	No	---	331
X7-SB642-0304	2	10	Calc	No	---	10
X7-SS643-0001	2	166	FBL	No	---	166
X7-SS643-0102	2	113	Calc	No	---	113
X7-SB643-0203	2	63	Calc	No	---	63
X7-SB643-0304	2	10	Calc	No	---	10
X7-SS644-0001	2	**260**	Calc	Yes	9	27
X7-SS644-0102	2	**265**	Calc	Yes	9	27
X7-SB644-0203	2	**950**	Calc	Yes	9	27
X7-SB644-0304	2	10	Calc	Yes	9	27
X7-SS645-0001	2	104	Calc	No	---	104
X7-SS645-0102	2	**319**	Calc	No	---	319
X7-SB645-0203	2	15	Calc	No	---	15
X7-SB645-0304	2	10	Calc	No	---	10
X7-SS646-0001	2	90	Calc	No	---	90
X7-SS646-0102	2	178	FBL	No	---	178
X7-SB646-0203	2	6	Calc	No	---	6
X7-SB646-0304	2	10	Calc	No	---	10
X7-SS647-0001	2	122	Calc	No	---	122
X7-SS647-0102	2	**595**	Calc	No	---	**595**
X7-SB647-0203	2	10	Calc	No	---	10
X7-SB647-0304	2	10	Calc	No	---	10
X7-SS648-0001	2	155	Calc	No	---	155
X7-SS648-0102	2	**426**	Calc	No	---	**426**
X7-SB648-0203	2	2	Calc	No	---	2
X7-SB648-0304	2	10	Calc	No	---	10
X7-SS649-0001	2	146	Calc	No	---	146
X7-SS649-0102	2	**319**	Calc	No	---	**319**

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB649-0203	2	1	Calc	No	---	1
X7-SB649-0304	2	10	Calc	No	---	10
X7-SS650-0001	2	112	Calc	No	---	112
X7-SS650-0102	2	11	Calc	No	---	11
X7-SB650-0203	2	10	Calc	No	---	10
X7-SS651-0001	2	103	Calc	No	---	103
X7-SS651-0102	2	116	FBL	No	---	116
X7-SB651-0203	2	33	Calc	No	---	33
X7-SB651-0304	2	10	Calc	No	---	10
X7-SS652-0001	2	189	FBL	No	---	189
X7-SS652-0102	2	10	Calc	No	---	10
X7-SB652-0203	2	10	Calc	No	---	10
X7-SS653-0001	2	120	Calc	No	---	120
X7-SS653-0102	2	45	Calc	No	---	45
X7-SB653-0203	2	97	Calc	No	---	97
X7-SB653-0304	2	10	Calc	No	---	10
X7-SS654-0001	2	44	Calc	No	---	44
X7-SS654-0102	2	94	Calc	No	---	94
X7-SB654-0203	2	12	Calc	No	---	12
X7-SB654-0304	2	10	Calc	No	---	10
X7-SS655-0001	2	186	Calc	Yes	1	27
X7-SS655-0102	2	**680**	Calc	Yes	1	27
X7-SB655-0203	2	96	Calc	Yes	1	27
X7-SB655-0304	2	10	Calc	Yes	1	27
X7-SS656-0001	2	128	FBL	No	---	128
X7-SS656-0102	2	137	FBL	No	---	137
X7-SB656-0203	2	10	Calc	No	---	10
X7-SB656-0304	2	10	Calc	No	---	10
X7-SS657-0001	2	**446**	Calc	Yes	1	27
X7-SS657-0102	2	167	Calc	Yes	1	27
X7-SB657-0203	2	**281**	Calc	Yes	1	27
X7-SB657-0304	2	**367**	Calc	Yes	1	27
X7-SB657-0405	2	51	Calc	Yes	1	27
X7-SB657-0506	2	10	Calc	No	1	10
X7-SS658-0001	2	**670**	Calc	Yes	1	27
X7-SS658-0102	2	**1410**	Calc	Yes	1	27
X7-SB658-0203	2	33	Calc	Yes	1	27
X7-SB658-0304	2	36	Calc	Yes	1	27
X7-SS659-0001	2	**227**	FBL	No	---	227

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS659-0102	2	80	Calc	No	---	80
X7-SB659-0203	2	10	Calc	No	---	10
X7-SS660-0001	2	**272**	Calc	Yes	2	27
X7-SS660-0102	2	**1921**	Calc	Yes	2	27
X7-SB660-0203	2	10	Calc	No	2	10
X7-SB660-0304	2	10	Calc	No	2	10
X7-SS661-0001	2	164	FBL	No	---	164
X7-SS661-0102	2	10	Calc	No	---	10
X7-SB661-0203	2	10	Calc	No	---	10
X7-SS662-0001	2	**779**	FBL	Yes	3	27
X7-SS662-0102	2	10	Calc	Yes	3	27
X7-SB662-0203	2	10	Calc	Yes	3	27
X7-SS663-0001	2	**229**	Calc	No	---	229
X7-SS663-0102	2	10	Calc	No	---	10
X7-SB663-0203	2	10	Calc	No	---	10
X7-SS664-0001	2	10	Calc	No	---	10
X7-SS664-0102	2	10	Calc	No	---	10
X7-SS665-0001	2	10	Calc	No	---	10
X7-SS665-0102	2	10	Calc	No	---	10
X7-SS666-0001	2	10	Calc	No	---	10
X7-SS666-0102	2	10	Calc	No	---	10
X7-SS667-0001	2	38	Calc	Yes	6	27
X7-SS667-0102	2	**950**	Calc	Yes	6	27
X7-SB667-0203	2	10	Calc	No	6	10
X7-SB667-0304	2	10	Calc	No	6	10
X7-SS668-0001	2	**225**	FBL	No	---	225
X7-SS668-0102	2	182	FBL	No	---	182
X7-SB668-0203	2	10	Calc	No	---	10
X7-SB668-0304	2	10	Calc	No	---	10
X7-SS669-0001	2	**348**	Calc	No	---	348
X7-SS669-0102	2	2	Calc	No	---	2
X7-SB669-0203	2	10	Calc	No	---	10
X7-SB669-0304	2	10	Calc	No	---	10
X7-SS670-0001	2	**2815**	Calc	Yes	5	27
X7-SS670-0102	2	**3419**	Calc	Yes	5	27
X7-SB670-0203	2	10	Calc	Yes	5	27
X7-SB670-0304	2	10	Calc	Yes	5	27
X7-SS671-0001	2	**2962**	Calc	Yes	6	27
X7-SS671-0102	2	4	Calc	Yes	6	27

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB671-0203	2	10	Calc	No	6	10
X7-SS672-0001	2	**462**	Calc	Yes	6	27
X7-SS672-0102	2	10	Calc	Yes	6	27
X7-SB672-0203	2	10	Calc	No	6	10
X7-SS673-0001	2	**1959**	Calc	Yes	6	27
X7-SS673-0102	2	10	Calc	Yes	6	27
X7-SB673-0203	2	10	Calc	No	6	10
X7-SS674-0001	2	**846**	Calc	Yes	6	27
X7-SS674-0102	2	16	Calc	Yes	6	27
X7-SB674-0203	2	10	Calc	No	6	10
X7-SS675-0001	2	**866**	Calc	Yes	8	27
X7-SS675-0102	2	**533**	Calc	Yes	8	27
X7-SB675-0203	2	5	Calc	No	8	5
X7-SB675-0304	2	10	Calc	No	8	10
X7-SS676-0001	2	**978**	Calc	Yes	8	27
X7-SS676-0102	2	**411**	Calc	Yes	8	27
X7-SB676-0203	2	10	Calc	No	8	10
X7-SB676-0304	2	10	Calc	No	8	10
X7-SS677-0001	2	**391**	Calc	Yes	8	27
X7-SS677-0102	2	**744**	Calc	Yes	8	27
X7-SB677-0203	2	**1104**	Calc	No	8	**1104**
X7-SB677-0304	2	9	Calc	No	8	9
X7-SS678-0001	2	107	Calc	No	---	107
X7-SS678-0102	2	**489**	Calc	No	---	**489**
X7-SB678-0203	2	10	Calc	No	---	10
X7-SB678-0304	2	10	Calc	No	---	10
X7-SS679-0001	2	**236**	Calc	No	---	**236**
X7-SS679-0102	2	**569**	Calc	No	---	**569**
X7-SB679-0203	2	19	Calc	No	---	19
X7-SB679-0304	2	10	Calc	No	---	10
X7-SS680-0001	2	159	FBL	No	---	159
X7-SS680-0102	2	**249**	FBL	No	---	249
X7-SB680-0203	2	10	Calc	No	---	10
X7-SB680-0304	2	10	Calc	No	---	10
X7-SS681-0001	2	152	FBL	No	---	152
X7-SS681-0102	2	30	Calc	No	---	30
X7-SB681-0203	2	10	Calc	No	---	10
X7-SS682-0001	2	161	FBL	No	---	161
X7-SS682-0102	2	10	Calc	No	---	10

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SB682-0203	2	10	Calc	No	---	10
X7-SS683-0001	2	71	Calc	No	---	71
X7-SS683-0102	2	10	Calc	No	---	10
X7-SS684-0001	2	10	Calc	No	---	10
X7-SS684-0102	2	10	Calc	No	---	10
X7-SS685-0001	2	10	Calc	No	---	10
X7-SS685-0102	2	10	Calc	No	---	10
X7-SS686-0001	2	**449**	Calc	No	---	**449**
X7-SS686-0102	2	80	Calc	No	---	80
X7-SB686-0203	2	7	Calc	No	---	7
X7-SS687-0001	2	**262**	FBL	No	---	**262**
X7-SS687-0102	2	92	Calc	No	---	92
X7-SB687-0203	2	10	Calc	No	---	10
X7-SS688-0001	2	10	Calc	No	---	10
X7-SS688-0102	2	4	Calc	No	---	4
X7-SS689-0001	2	10	Calc	No	---	10
X7-SS689-0102	2	10	Calc	No	---	10
X7-SB689-0203	2	10	Calc	No	---	10
X7-SS690-0001	2	10	Calc	No	---	10
X7-SS690-0102	2	30	Calc	No	---	30
X7-SS691-0001	2	10	Calc	No	---	10
X7-SS691-0102	2	**321**	Calc	No	---	321
X7-SB691-0203	2	117	FBL	No	---	117
X7-SB691-0304	2	10	Calc	No	---	10
X7-SS692-0001	2	**1915**	Calc	Yes	7	27
X7-SS692-0102	2	**451**	Calc	Yes	7	27
X7-SB692-0203	2	10	Calc	No	7	10
X7-SB692-0304	2	10	Calc	No	7	10
X7-SS693-0001	2	29	Calc	No	---	29
X7-SS693-0102	2	10	Calc	No	---	10
X7-SS694-0001	2	142	FBL	No	---	142
X7-SS694-0102	2	15	Calc	No	---	15
X7-SB694-0203	2	10	Calc	No	---	10
X7-SS695-0001	2	70	Calc	No	---	70
X7-SS695-0102	2	11	Calc	No	---	11
X7-SS696-0001	2	74	Calc	Yes	10	27
X7-SS696-0102	2	**853**	Calc	Yes	10	27
X7-SB696-0203	2	148	FBL	No	10	148
X7-SB696-0304	2	10	Calc	No	10	10

TABLE 6-12

LEAD RANKED - CENTRAL AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	Sample Round	Lead Concentration	Source	Selected for Removal?	Subarea No.	Post Removal Lead Concentration
X7-SS697-0001	2	81	Calc	No	---	81
X7-SS697-0102	2	10	Calc	No	---	10
X7-SS698-0001	2	10	Calc	No	---	10
X7-SS698-0102	2	10	Calc	No	---	10
X7-SS699-0001	2	24	Calc	No	---	24
X7-SS699-0102	2	6	Calc	No	---	6
X7-SS700-0001	2	10	Calc	Yes	6	27
X7-SS700-0102	2	10	Calc	Yes	6	27
X7-SS701-0001	2	**3445**	Calc	Yes	6	27
X7-SS701-0102	2	**347**	Calc	Yes	6	27
X7-SB701-0203	2	10	Calc	No	6	10
X7-SB701-0304	2	18	Calc	No	6	18
X7-SS702-0001	2	24	Calc	No	---	24
X7-SS702-0102	2	17	Calc	No	---	17
X7-SS703-0001	2	51	Calc	No	---	51
X7-SS703-0102	2	10	Calc	No	---	10
AVG LEAD CONCENTRATION		**401**				**49**

Indicates lead concentration greater than 400 mg/kg
Indicates lead concentration between 192 and 400 mg/kg
Sample location selected for removal and backfilled

TABLE 6-13

LEAD SUMMARY - SOUTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
Southernmost Area of Northern Zone - Dirt Mound			
X7-SS038-0002	RFI-2007	213.00	Calc
X7-SB038-0203	2	74.42	Calc
X7-SB038-0304	2	15.00	Calc
X7-SS039-0002	RFI-2007	495.00	FBL
X7-SB039-0203	2	152.00	FBL
X7-SB039-0304	2	162.58	Calc
X7-SS040-0002	RFI-2007	119.00	Calc
X7-SS041-0002	RFI-2007	26.00	Calc
X7-SS042-0002	RFI-2007	0.00	XRF
X7-SS184-0002	RFI-2007	25.30	FBL
X7-SS309-0001	1	65.90	Calc
X7-SS310-0001	1	374.00	Calc
X7-SS310-0102	1	374.00	FBL
X7-SB310-0203	1	209.00	FBL
X7-SB310-0304	2	186.35	Calc
X7-SB310-0405	2	145.00	FBL
X7-SS311-0001	1	88.50	Calc
X7-SS312-0001	1	143.00	Calc
X7-SS312-0102	1	249.00	FBL
X7-SS312-0203	2	35.32	Calc
X7-SS312-0304	2	10.00	Calc
X7-SS313-0001	1	187.00	FBL
X7-SS313-0102	1	201.00	Calc
X7-SB313-0203	1	466.00	Calc
X7-SB313-0304	2	10.00	Calc
X7-SB313-0405	2	10.00	Calc
X7-SS314-0001	1	126.00	Calc
X7-SS314-0102	1	179.00	Calc
X7-SS315-0001	1	220.00	FBL
X7-SS315-0102	1	64.70	Calc
X7-SS316-0001	1	322.00	Calc
X7-SS316-0102	1	34.00	Calc
X7-SS317-0001	1	74.90	Calc
X7-SS318-0001	1	90.90	Calc
X7-SS319-0001	1	70.70	Calc
X7-SS320-0001	1	279.00	Calc
X7-SS320-0102	1	162.00	Calc
X7-SB320-0203	1	24.90	Calc
X7-SS371-0001	1	244.00	FBL

TABLE 6-13

LEAD SUMMARY - SOUTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Source
X7-SS371-0102	2	110.00	FBL
X7-SB371-0203	2	10.00	Calc
X7-SS373-0001	1	50.80	Calc
X7-SS376-0001	1	184.00	Calc
X7-SS376-0102	1	136.00	FBL
X7-SS377-0001	1	380.00	Calc
X7-SS377-0102	1	98.60	FBL
X7-SS379-0001	1	49.60	Calc
X7-SS383-0001	1	64.40	Calc
X7-SS385-0001	1	200.00	FBL
X7-SS385-0102	1	60.80	Calc
X7-SS387-0001	1	77.40	Calc
X7-SB430-0304	1	15.30	Calc
X7-SB430-0405	1	10.20	Calc
X7-SB430-0506	1	10.20	Calc
X7-SB431-0304	1	47.20	Calc
X7-SB431-0405	1	21.30	FBL
X7-SB432-0304	1	23.40	Calc
X7-SB432-0405	1	10.20	Calc
X7-SS434-0001	1	162.00	FBL
X7-SS434-0102	1	29.40	Calc
X7-SB578-0001	2	10.00	Calc
X7-SB578-0102	2	10.00	Calc
X7-SB579-0001	2	10.00	Calc
X7-SB579-0102	2	10.00	Calc
X7-SB580-0001	2	10.00	Calc
X7-SB580-0102	2	10.00	Calc
AVG CONCENTRATION		**117.26**	

Indicates lead concentration greater than 400 mg/kg

bkg = background
Calc = lead calculated value
FBL = Fixed-base laboratory
XRF = X-Ray fluorescence

TABLE 6-14

LEAD RANKED - SOUTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Bkg	Source
Southernmost Area of Northern Zone - Dirt Mound				
X7-SS038-0002	RFI-2007	**213.00**	0.00	Calc
X7-SB038-0203	2	74.42	0.00	Calc
X7-SB038-0304	2	15.00	0.00	Calc
X7-SS039-0002	RFI-2007	**495.00**	0.00	FBL
X7-SB039-0203	2	152.00	0.00	FBL
X7-SB039-0304	2	162.58	0.00	Calc
X7-SS040-0002	RFI-2007	119.00	0.00	Calc
X7-SS041-0002	RFI-2007	26.00	0.00	Calc
X7-SS042-0002	RFI-2007	0.00	0.00	XRF
X7-SS184-0002	RFI-2007	25.30	0.00	FBL
X7-SS309-0001	1	65.90	0.00	Calc
X7-SS310-0001	1	**374.00**	0.00	Calc
X7-SS310-0102	1	**374.00**	0.00	FBL
X7-SB310-0203	1	**209.00**	0.00	FBL
X7-SB310-0304	2	186.35	0.00	Calc
X7-SB310-0405	2	145.00	0.00	FBL
X7-SS311-0001	1	88.50	0.00	Calc
X7-SS312-0001	1	143.00	0.00	Calc
X7-SS312-0102	1	**249.00**	0.00	FBL
X7-SS312-0203	2	35.32	0.00	Calc
X7-SS312-0304	2	10.00	0.00	Calc
X7-SS313-0001	1	187.00	0.00	FBL
X7-SS313-0102	1	**201.00**	0.00	Calc
X7-SB313-0203	1	466.00	0.00	Calc
X7-SB313-0304	2	10.00	0.00	Calc
X7-SB313-0405	2	10.00	0.00	Calc
X7-SS314-0001	1	126.00	0.00	Calc
X7-SS314-0102	1	179.00	0.00	Calc
X7-SS315-0001	1	**220.00**	0.00	FBL
X7-SS315-0102	1	64.70	0.00	Calc
X7-SS316-0001	1	**322.00**	0.00	Calc
X7-SS316-0102	1	34.00	0.00	Calc
X7-SS317-0001	1	74.90	0.00	Calc
X7-SS318-0001	1	90.90	0.00	Calc
X7-SS319-0001	1	70.70	0.00	Calc
X7-SS320-0001	1	**279.00**	0.00	Calc

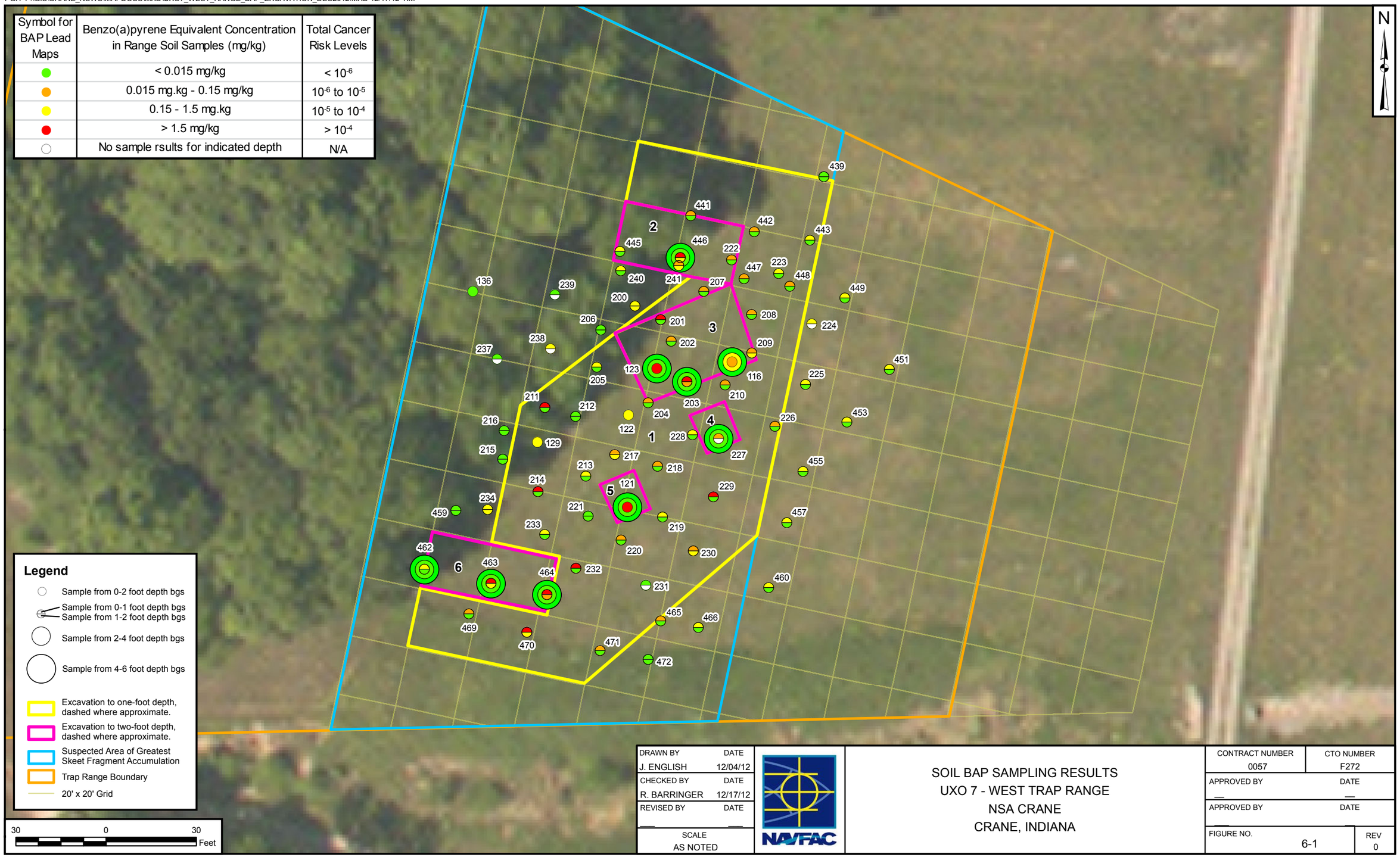
TABLE 6-14

LEAD RANKED - SOUTHERNMOST AREA
UXO 07 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE ID	SAMPLE ROUND	Lead	Bkg	Source
X7-SS320-0102	1	162.00	0.00	Calc
X7-SB320-0203	1	24.90	0.00	Calc
X7-SS371-0001	1	**244.00**	0.00	FBL
X7-SS371-0102	2	110.00	0.00	FBL
X7-SB371-0203	2	10.00	0.00	Calc
X7-SS373-0001	1	50.80	0.00	Calc
X7-SS376-0001	1	184.00	0.00	Calc
X7-SS376-0102	1	136.00	0.00	FBL
X7-SS377-0001	1	**380.00**	0.00	Calc
X7-SS377-0102	1	98.60	0.00	FBL
X7-SS379-0001	1	49.60	0.00	Calc
X7-SS383-0001	1	64.40	0.00	Calc
X7-SS385-0001	1	**200.00**	0.00	FBL
X7-SS385-0102	1	60.80	0.00	Calc
X7-SS387-0001	1	77.40	0.00	Calc
X7-SB430-0304	1	15.30	0.00	Calc
X7-SB430-0405	1	10.20	0.00	Calc
X7-SB430-0506	1	10.20	0.00	Calc
X7-SB431-0304	1	47.20	0.00	Calc
X7-SB431-0405	1	21.30	0.00	FBL
X7-SB432-0304	1	23.40	0.00	Calc
X7-SB432-0405	1	10.20	0.00	Calc
X7-SS434-0001	1	162.00	0.00	FBL
X7-SS434-0102	1	29.40	0.00	Calc
X7-SB578-0001	2	10.00	0.00	Calc
X7-SB578-0102	2	10.00	0.00	Calc
X7-SB579-0001	2	10.00	0.00	Calc
X7-SB579-0102	2	10.00	0.00	Calc
X7-SB580-0001	2	10.00	0.00	Calc
X7-SB580-0102	2	10.00	0.00	Calc
AVG CONCENTRATION		**117.26**	**0.00**	

Indicates lead concentration greater than 400 mg/kg
Indicates lead concentration between 192 and 400 mg/kg
Indicates sample location selected for removal with no backfill

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_WEST_RANGE_BAP_EXCAVATION_DEC2012.MXD 12/17/12 KM



Symbol for BAP Lead Maps	Benzo(a)pyrene Equivalent Concentration in Range Soil Samples (mg/kg)	Total Cancer Risk Levels
●	< 0.015 mg/kg	$< 10^{-6}$
●	0.015 mg.kg - 0.15 mg/kg	10^{-6} to 10^{-5}
●	0.15 - 1.5 mg.kg	10^{-5} to 10^{-4}
●	> 1.5 mg/kg	$> 10^{-4}$
○	No sample rsults for indicated depth	N/A

Legend

- Sample from 0-2 foot depth bgs
- Sample from 0-1 foot depth bgs
- Sample from 1-2 foot depth bgs
- Sample from 2-4 foot depth bgs
- Sample from 4-6 foot depth bgs
- Excavation to one-foot depth, dashed where approximate.
- Excavation to two-foot depth, dashed where approximate.
- Suspected Area of Greatest Skeet Fragment Accumulation
- Trap Range Boundary
- 20' x 20' Grid

DRAWN BY	DATE
J. ENGLISH	12/04/12
CHECKED BY	DATE
R. BARRINGER	12/17/12
REVISED BY	DATE
SCALE	
AS NOTED	

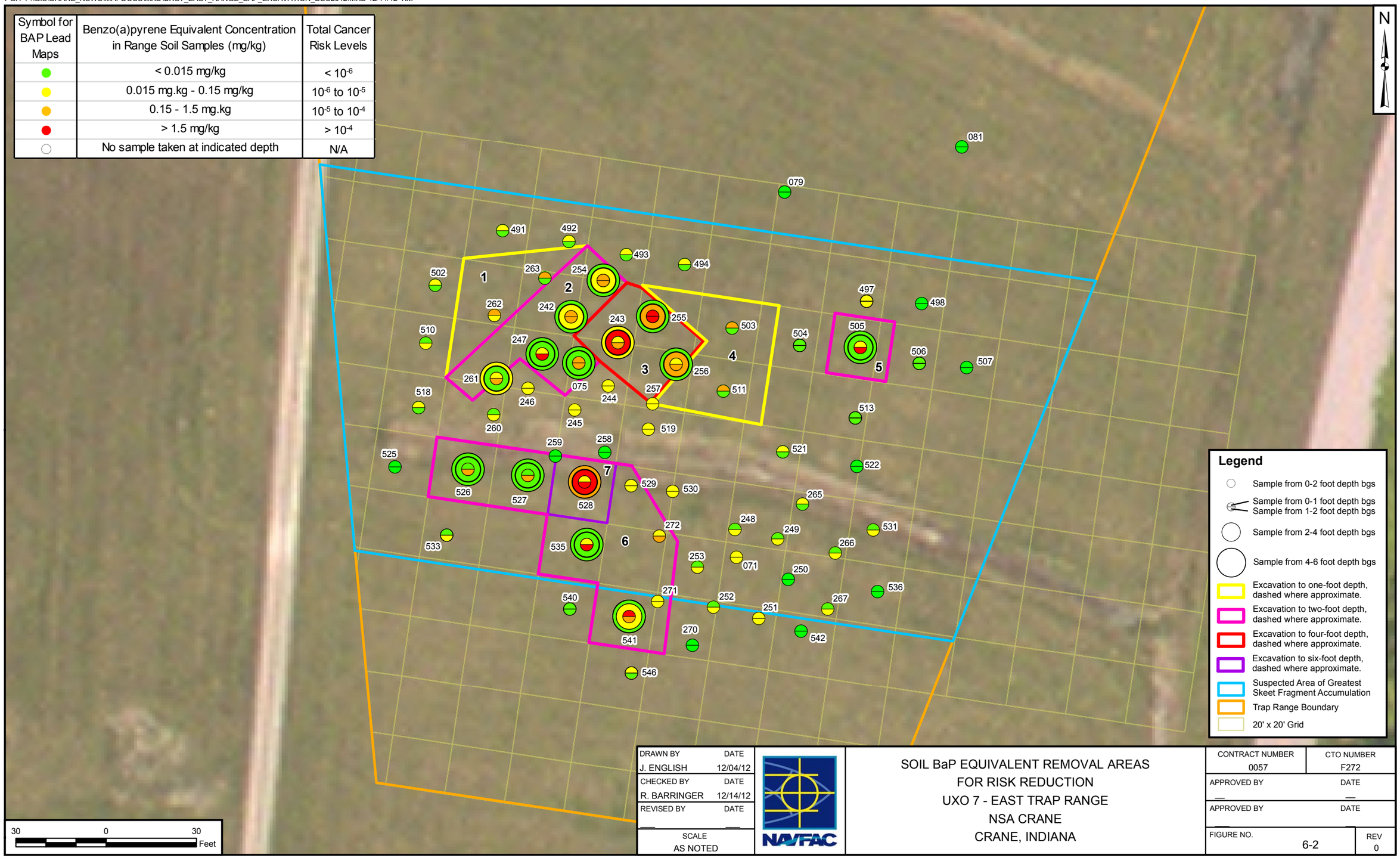
NAVFAC

SOIL BAP SAMPLING RESULTS
UXO 7 - WEST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
0057	F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 6-1	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_EAST_RANGE_BAP_EXCAVATION_DEC2012.MXD 12/14/12 KM

Symbol for BAP Lead Maps	Benzo(a)pyrene Equivalent Concentration in Range Soil Samples (mg/kg)	Total Cancer Risk Levels
●	< 0.015 mg/kg	$< 10^{-6}$
●	0.015 mg.kg - 0.15 mg/kg	10^{-6} to 10^{-5}
●	0.15 - 1.5 mg.kg	10^{-5} to 10^{-4}
●	> 1.5 mg/kg	$> 10^{-4}$
○	No sample taken at indicated depth	N/A



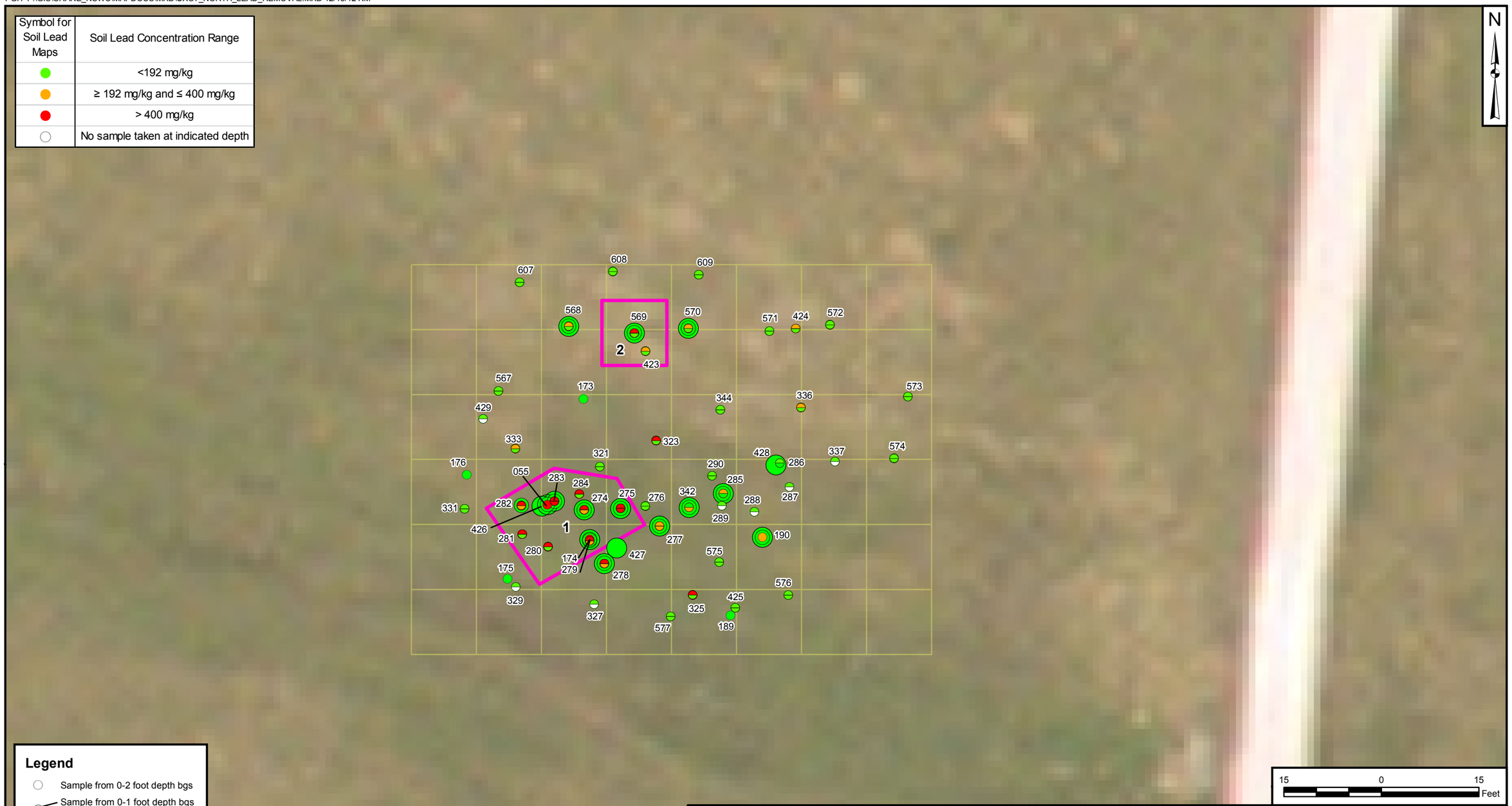
DRAWN BY	DATE
J. ENGLISH	12/04/12
CHECKED BY	DATE
R. BARRINGER	12/14/12
REVISED BY	DATE
—	—
SCALE	
AS NOTED	

NAVFAC

SOIL BaP EQUIVALENT REMOVAL AREAS
FOR RISK REDUCTION
UXO 7 - EAST TRAP RANGE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
0057	F272
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
FIGURE NO. 6-2	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_NORTH_LEAD_REMOVAL.MXD 12/18/12 KM



Symbol for Soil Lead Maps	Soil Lead Concentration Range
●	<192 mg/kg
●	≥ 192 mg/kg and ≤ 400 mg/kg
●	> 400 mg/kg
○	No sample taken at indicated depth

Legend

- Sample from 0-2 foot depth bgs
- Sample from 0-1 foot depth bgs
- Sample from 1-2 foot depth bgs
- Sample from 2-3 foot depth bgs
- Sample from 3-4 foot depth bgs
- Excavation to two-foot depth
- 10' x 10' Grid

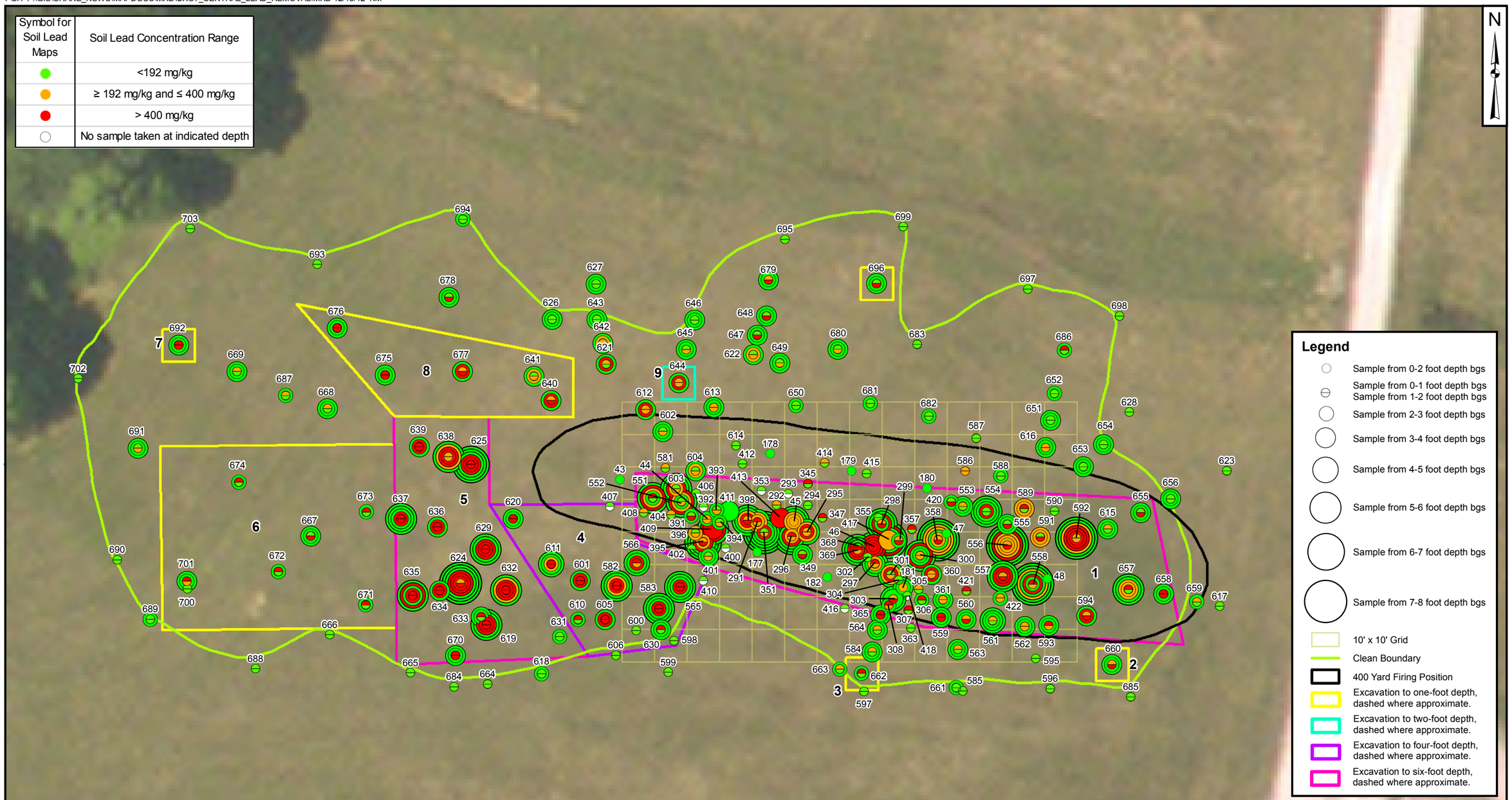
DRAWN BY	DATE
K. MOORE	12/14/12
CHECKED BY	DATE
J. GOERDT	12/18/12
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

SOIL LEAD REMOVAL AREAS FOR RISK REDUCTION
UXO 7 - NORTHERNMOST AREA OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
1621	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 6-3	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_CENTRAL_LEAD_REMOVAL.MXD 12/18/12 KM



Symbol for Soil Lead Maps	Soil Lead Concentration Range
●	<192 mg/kg
●	≥ 192 mg/kg and ≤ 400 mg/kg
●	> 400 mg/kg
○	No sample taken at indicated depth

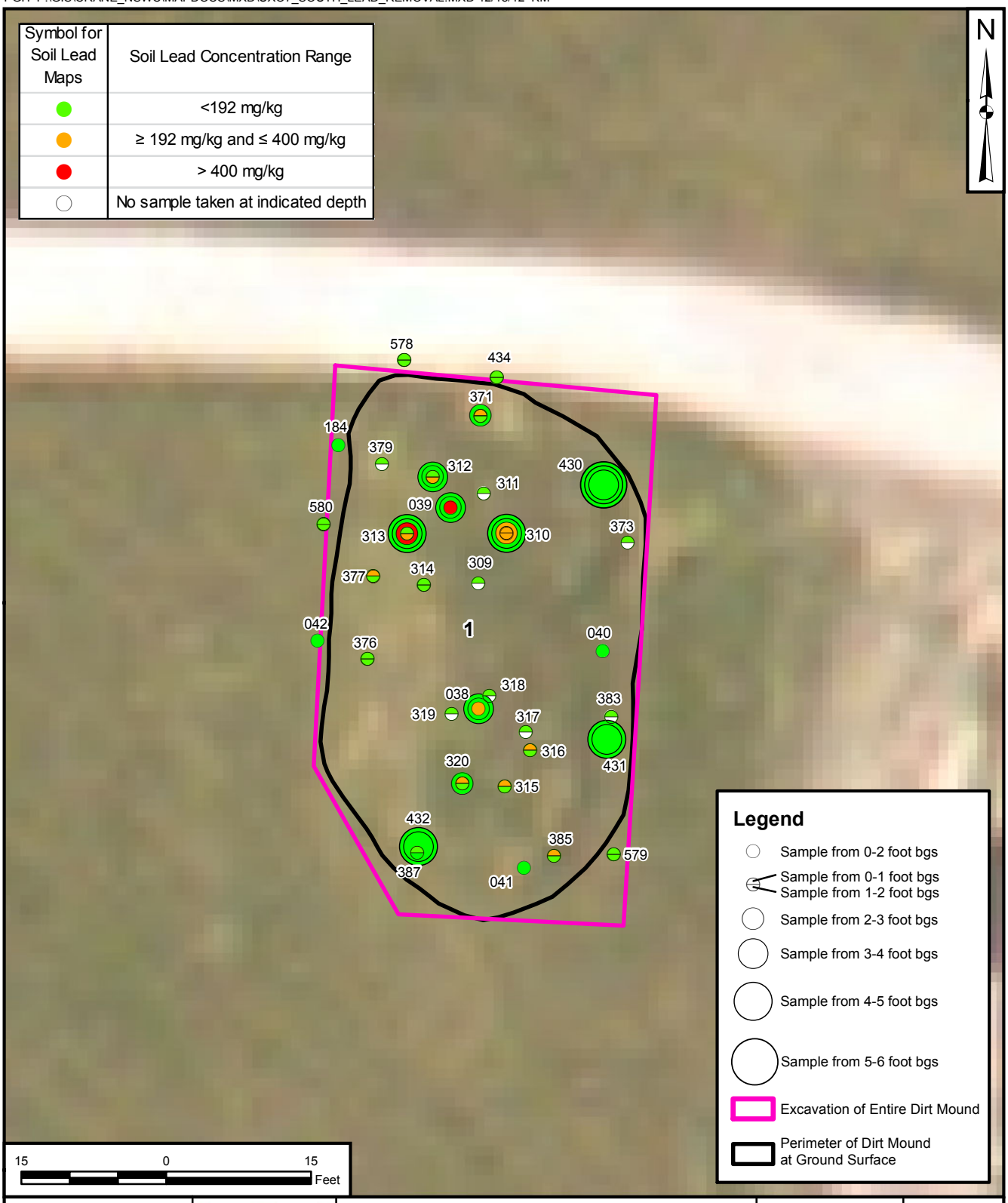
DRAWN BY K. MOORE	DATE 12/14/12
CHECKED BY J. GOERDT	DATE 12/18/12
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

SOIL LEAD REMOVAL AREAS FOR RISK REDUCTION
UXO 7 - CENTRAL AREA OF NORTHERN ZONE
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER F272
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 6-4	REV 0

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\UXO7_SOUTH_LEAD_REMOVAL.MXD 12/18/12 KM



DRAWN BY	DATE			CONTRACT NUMBER	CTO NUMBER
K. MOORE	12/14/12		SOIL LEAD REMOVAL AREAS FOR RISK REDUCTION UXO 7 - SOUTHERNMOST AREA OF NORTHERN ZONE NSA CRANE CRANE, INDIANA	___	F272
CHECKED BY	DATE			APPROVED BY	DATE
J. GOERDT	12/18/12			___	___
REVISED BY	DATE			APPROVED BY	DATE
___	___			___	___
SCALE AS NOTED		NAVFAC		FIGURE NO. 6-5	REV 0

REFERENCES

CCME (Canadian Council of Ministers of the Environment), 2010. Canadian Soil Quality Guidelines for Carcinogenic and Other Polycyclic Aromatic Hydrocarbons (Environmental and Human Health Effects). Scientific Criteria Document (revised). 216 pp.

Efroymson, R.A., M.E. Will, and G.W. Suter II. 1997a. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision. Oak Ridge National Laboratory. November. ES/ER/TM-126/R2.

Efroymson, R.A., M.E. Will, G.W. Suter II, and A.C. Wooten. 1997b. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory. November. ES/ER/TM-85/R3.

LANL (Los Alamos National Laboratory), 2011. ECORISK Database (Release 3.1). LA-UR-11-5460. ER ID 206473. Environmental Programs Directorate, Los Alamos National Laboratory, Los Alamos, NM. October.
Tetra Tech, Inc. (Tetra Tech), 2011. Resource Conservation and Recovery Act Technical Memorandum – NSA Crane UXO 7 – Small Arms Ranges – Supplemental Work Plan. Naval Support Activity Crane, Crane, Indiana. October.

Tetra Tech, 2009. Resource Conservation and Recovery Act Facility Investigation for UXO 7 Ranges. Naval Surface Warfare Center, Crane Division, Crane, Indiana. July.

Tetra Tech, 2007. Resource Conservation and Recovery Act Facility Investigation Addendum No. 2 to the QAPP for SWMUs 8, 15, 18, 19, 20 and the Old Gun Tub Storage Lot for UXO 5 and UXO 7. Naval Surface Warfare Center, Crane Division, Crane, Indiana. August.

USEPA (U.S. Environmental Protection Agency), 1993. Wildlife Exposure Factors Handbook. EPA/600/R-93/187a. Office of Research and Development. Washington, DC, 1993.

USEPA, 2007a. Guidance for Developing Ecological Soil Screening Level, Attachment 4-1, Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. Office of Solid Waste and Emergency and Response. OSWER Directive 9285.7-55. April.

USEPA, 2007b. Ecological Soil Screening Level for PAHs, Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.7-78. June.

APPENDIX A

SOIL SAMPLE LOG SHEETS, CHAINS-OF-CUSTODY, FIELD ACTIVITY LOGS, ETC.

NSA Crane
UXO 7

"Rite in the Rain"®
ALL-WEATHER
FIELD
No. 351
FTP-22

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

TETRA TECH

Jim Goerdt
Project Manager/Environmental Scientist

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Project _____

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	9/4/12 - 9/12/12	
	Jim Goerdt (JG) - FOL	
	Kevin Losekamp (KL) - Site Geologist	
	Chris Rumer (CR) - Field Tech	
	10/1/12 - 10/10/12	
	Jim Goerdt - FOL	
	Kevin Losekamp - Site Geologist	

9-4-12

JG & CR mobilize from the Pittsburgh office. KL mobilizes from the Cincinnati office.

KL met w/ Crane Fire Dept for Hot Work Permit & w/ Pam Hook for Safety Permit.

KL had previously contacted IUPPS for utility clearance.

9-5-12

AM: PC, low 60's
PM: Cloudy/Rain
Mid 70's

0730 - Arrive at Crane field trailer. KL/CR on site.

JG/CR to UXO 7 to lay out PAH sample locations.

KL remains at field trailer waiting on drilling personel - Geologic, Inc. (Brady).

0930 - Asked to leave the UXO 7 area due to scheduled open detonations. JG/CR return to field trailer. KL w/ Driller & completing equipment inspection.

0945 - Conducted a health & safety meeting w/ all site personnel. All personal & HASP forms completed.

~~1300~~ 1230 - Returned to UXO 7 w/ Driller & began prep to collection of PAH samples at the East Trap Range. JG laid out remaining PAH sample locations at East & West Trap Ranges.

1300 - Rain begins to fall & potential heavy storm on horizon.

1320 - First sight of lightning. Waited inside vehicles, but storm intensified & we parked drill rig & left the site. Phone call to

Walt Wagonner to let him know we had left. Storm intensified w/ heavy rain, thunder, & lightning.

1430 - Due to storm not letting up, decision was made to suspend daily activities. Personnel exited range. K2 to Lowes for field supplies.

1510 - JG at Wal Mart to purchase Ziploc bags & other field items.

9-6-12

AM: Heavy fog changing to mostly sunny 60's
PM. M. Sunny, ~80°

0730 - All personnel on site.

0740 - Phoned W. Wagner to inform him we would be at UXO 7.

0800 - Arrived at UXO 7, & began PAH sample collection.

0930 - Asked to leave the area due to planned detonations. Personnel to field trailer to begin processing of samples.

1300 - Contacted W. Wagner informing that personnel returning to UXO 7

for additional sampling. JG remained at field trailer & continued processing samples.

1630
KL/CR return to field trailer. Assist w/ final processing of samples.

All samples collected w East Trap Range.

Initial sample collection began at the West Trap Range.

1700 - All personnel exit range.

9-7-12

AM: Upper 60's w/ Fog
PM: Near 80 w/ Sun

0730 - All personnel on site.

0740 - Phoned W. Wagner to inform we would be on site (UXO 7)

0800 - At UXO7 collecting soil samples at West Trap Range.

0930 - Asked to leave UXO 7 due to scheduled detonation activities. DPT rig moved to designated location just north of 500-yd firing berm.

1000 - Personnel at field trailer processing samples.

1200 - Informed W. Wagner we were heading back to UXO 7.

1230 - Resume soil sample collection at West Trap Range.

1315 - JG locating sample locations at 400 yd berm.

1430 - JG/CR return to field trailer to begin processing samples for shipping.

1700 - KL @ field trailer.

1800 - KCR to Fed Ex w/ PAH samples.

1820 - KL/JG exit crane.

9-8-12

AM: Cloudy/misty low 60's
PM: Cloudy 70's.

0730 - All personnel at field trailer. Notification made to W. Wagoner.

0800 - KL/CR to UX07 to continue collection of lead samples.
JG at field trailer processing samples for XRF analysis.

0930 - JG to UX07 to mark additional lead sample locations.

1100 - JG taking samples back to field trailer.
No planned detonations today due to cloud cover, so sample collection through out the day.

1630 - KL/CR back at field trailer. Processing samples for XRF analysis.

1800 - All personnel exit crane.

4-4-12

AM: Clear Mid 50's
PM: Clear Mid 70's

0730 - All personnel on site.

0750 - Dennis, w/ Geo-Logics on site.
Conducted H&S briefing
Had him sign all required APP forms.

0815 - CR/KL enroute to Uxo T. W. Wagner informed.
JG utilizing XRF.

1200 - KL/CR begin work @ B-181.

1700 - KL/CR back at field trailer. Dropping off samples/equipment.

1830 - KL/CR exit Crane.

1900 - JG exits Crane.

9-10-12

AM: Clear, Low 50's
PM: Clear, Mid 70's

0730 - KL/CR on site

0810 - JG on site

0835 - Call to W. Wagoner

0840 - KL/CR enroute to Uxo 7, collecting step-out samples.

0930 - Asked to leave Uxo 7 due to OD activities. KL/CR to B-181.

JG analyzing samples all day w/ XRF.

1700 - KL/CR back w field trailer.

1730 - CR enroute to Fed Ex w/ samples.

JG/KL processing samples.

1930 - KL/JG exit crane.

9-11-12

AM: Mid 50's, clear
PM: Upper 70's, clear

0730 All personnel on site. W. Wagner contacted.

KL/CR enroute to UXO 7.

0930 - Asked to leave UXO 7 due to planned OD activities. All personnel at field trailer processing samples.

1200 - Back at UXO 7

1400 - KL/CR to B-181.

1730 - All exit crane.

9-12-12

Demobilizing from NSA crane.

End of Shift

Samples shipped to GEL.

Start of Next Shift
10-2 → 10/10.

KL - Kevin Loselkamp
JF - John Floyd
JG - Jim Goerdt

Round 2 B sampling

PAHs
Pb

10-2-17

AM:
PM:

~~0730~~ 0730 - All personnel on site. Internal HSS briefing. Discussed all activities planned at all sites over the course of this shift.

KL coordinating Safety Work permits required for the various sites.

Meeting w/ individuals responsible for permits.

Morning was spent at SWMU 17 (JG/JF).

Afternoon (JF/KL) sampling @ SWMU 17 while JG marking out sample locations @ UXO 7.

10-3-12

AM Cloudy/misty, Mid 50's
PM Sun Upper 70's

0745 - On site. KL/JF already on site prepping for day's activities.

0800 - Contacted W. Wagner

0810 - Contacted NSA Crane FD for work permit. Will meet KL on site.

0820 - KL/JF enroute to UXO 7. JG finalizing LOCs.

0930 - JG @ UXO 7 to grab collected samples to take back to field trailer to begin processing.

1030 - T. Brent stops by field trailer. Discussed

schedule for the duration of the shift.

1130 - KL/JF drop off samples at field trailer & then return to UXO 7.

1600 - JF at field trailer assisting w/ sample processing. KL remained at UXO 7 to collect PAH samples.

1700 - KL @ field trailer. Assisting w/ sample processing.

1800 - All exit Crane.

10-4-17

AM Clear upper 50's
PM

740 - On site. JF/KL on site. Drying oven not working. Samples left in overnight to air dry.

0800 - JG. w/ UXO 7 to lay out step-out sample locations (6).

0830 - KL/JF w/ UXO 7 to begin sample collection.

0900 - JG back w/ field trailer to begin IXRF.

0945 - KL/JF back w/ field trailer after finishing up at UXO 7. Prepping for sample collection w/ B-181.

1005 - KL/JF enroute to B-181.

1525 - JG w/ UXO 7 marking sample locations w/ pvc.

1750 - JG back w/ field trailer. KL/JF just getting back from B-181.

1815 - All exit Crane.

10-5-12

AM: MC low 50's
PM: Rain mid 50's

0800 - JG on base. KL already on site & processing XRF samples.

0915 - Driller not yet on site. Gave him a call only to find out the new guy is not being allowed on site due to unfavorable background check. KL contacted Drill Co owner (Dennis) & John Burton of Micah.

Kevin prepping for metal samples at Swmu 16.

1015 - KL to Swmu 16
JG XRFing samples

1300 - KL/JF back @ field trailer & prepping samples for ~~XRF~~ shipping for Swmu 16 & B-18?

1750 - Exit Crane enroute to Fed Ex.

10-6-12

AM Clear upper 30's
PM Clear upper 50's

0800 - On site. KL/JF @ UXO 7 w/ driller.

0900 - JG @ UXO 7 laying out additional step-outs sample locations.

1000 - JG back @ field trailer processing samples.

1130 - KL/JF done @ UXO 7. Assisting w/ sample prep.

1200 - KL/JF to SWMU 16.

1230 - JG to SWMU 23.

1500 - Driller @ the field trailer.

1530 - KL/JF @ field trailer, processing samples.

1700 - All exit crane.

10-7-12

AM Cloudy Upper 30's
PM PC 50's

0800 - JG on site.
KL/JF on site prepping labels & bottleware.
JG utilizing XRF.

0930 - KL/JF to SWMU 23 w/ Driller.

1130 - JG to UXO ?.
GPS & marking out step-out locations.

1330 - JG to SWMU 23 to assist w/ sampling.

1630 - JG/KL back at field. trailer dropping off samples.

1700 - KL exits Crane

1830 - JG exits Crane

10-8-12

AM Some Fog (PC) low 30's
PM Clear mid 50's

0745 - JG on site. KL/JF prepping for SWMU 23 SW/SD Sampling.
JG prepping for field XRF.

0830 - KL/JF to SWMU 23. Driller cold patching asphalt holes at SWMU 23.

1000 - JG to UXO ? for step-out sample collection.

1400 - JG back w field trailer processing samples.

1600 - KL/JF back w trailer from SWMU 23. Processing samples.

1830 - All exit Crane.

10-9-12

0730 - JG on site. KZ already on site. JF arrives @ 530.
Processing samples to shipping. Contactek Fed Ex for sample pick up @ field trailer
Second cooler ~ 5

1330 - JG to UXO7 w/ Basinski & Brent.

1445 - JG back at trailer. processing UXO7 LOCs.

1600 - JG to SWMU 23 (GPS)

1800 - Leave Crum around to Fed Ex to ship remaining samples.

1845 - Fed Ex

10-10-12

Demobilizing.

End of shift.

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100912-01 | PAGE _1_ OF _2_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	GEL Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1008		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	Lead						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
10/6	1110	X7-SB638-0405	638	4	5	SO	G	1		1						
10/3	950	X7-SS643-0001	643	0	1	SO	G	1		1						
10/3	1005	X7-SS646-0102	646	1	2	SO	G	1		1						
10/3	1015	X7-SS651-0102	651	1	2	SO	G	1		1						
10/3	1025	X7-SS652-0001	652	0	1	SO	G	1		1						
10/3	1035	X7-SS656-0001	656	0	1	SO	G	1		1						
10/3	1040	X7-SS656-0102	656	1	2	SO	G	1		1						
10/3	1050	X7-SS659-0001	659	0	1	SO	G	1		1						
10/3	1100	X7-SS661-0001	661	0	1	SO	G	1		1						
10/3	1115	X7-SS662-0001	662	0	1	SO	G	1		1						
10/4	855	X7-SS668-0001	668	0	1	SO	G	1		1						
10/4	855	X7-SS668-0102	668	1	2	SO	G	1		1						
10/4	940	X7-SS680-0001	680	0	1	SO	G	1		1						

1. RELINQUISHED BY	DATE 10/9/12	TIME 1700	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100912-02 | PAGE _2_ OF _2_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	GEL Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1008		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	Lead						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
10/4	940	X7-SS680-0102	680	1	2	SO	G	1		1						
10/4	950	X7-SS681-0001	681	0	1	SO	G	1		1						
10/4	1000	X7-SS682-0001	682	0	1	SO	G	1		1						
10/4	1050	X7-SS687-0001	687	0	1	SO	G	1		1						
10/8	1150	X7-SB691-0203	691	2	3	SO	G	1		1						
10/8	1240	X7-SS694-0001	694	0	1	SO	G	1		1						
10/8	1300	X7-SB696-0203	696	2	3	SO	G	1		1						

1. RELINQUISHED BY	DATE 10/9/12	TIME 1700	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-18 | PAGE _1_ OF _3_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2200		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	Lead						
9/8	845	X7-SB295-0304	SB295	3	4	SO	G	1		1						
9/9	915	X7-SB298-0405	SB297	4	5	SO	G	1		1						
9/7	1610	X7-SB351-0304	SB351	3	4	SO	G	1		1						
9/10	1430	X7-SB351-0506	SB351	5	6	SO	G	1		1						
9/10	1610	X7-SB358-0506	SB358	5	6	SO	G	1		1						
9/9	1400	X7-SB368-0203	SB368	2	3	SO	G	1		1						
9/8	825	X7-SB395-0405	SB395	4	5	SO	G	1		1						
9/10	1540	X7-SB558-0506	SB558	5	6	SO	G	1		1						
9/8	1120	X7-SB561-0203	SB561	2	3	SO	G	1		1						
9/8	1110	X7-SB563-0001	SB563	0	1	SO	G	1		1						
9/10	900	X7-SB584-0001	SB484	0	1	SO	G	1		1						
9/10	1645	X7-SB586-0102	SB586	1	2	SO	G	1		1						
9/10	1650	X7-SB587-0001	SB587	0	1	SO	G	1		1						

1. RELINQUISHED BY	DATE 9/12/12	TIME 1100	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-19 | PAGE _2_ OF _3_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane - UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Jim Goerdt	412-921-8425	2040 Savage Road
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed Ex / 8735 6012 2200		Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	Lead						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/10	1615	X7-SB592-0506	SB592	5	6	SO	G	1		1						
9/10	1605	X7-SB593-0304	SB593	3	4	SO	G	1		1						
9/10	1555	X7-SB595-0001	SB595	0	1	SO	G	1		1						
9/11	905	X7-SB611-0203	SB611	2	3	SO	G	1		1						
9/11	930	X7-SB615-0304	SB615	3	4	SO	G	1		1						
9/11	1630	X7-SB620-0203	SB620	2	3	SO	G	1		1						MS/MSD
9/11	1445	X7-SB621-0102	SB621	1	2	SO	G	1		1						
9/11	1635	X7-SB624-0001	SB624	0	1	SO	G	1		1						
9/11	1620	X7-SB626-0001	SB626	0	1	SO	G	1		1						
9/11	1630	X7-SB627-0102	SB627	1	2	SO	G	1		1						
9/8	1340	X7-SB039-0203	SB039	2	3	SO	G	1		1						
9/8	1335	X7-SB310-0405	SB310	4	5	SO	G	1		1						
9/8	1350	X7-SB371-0102	SB371	1	2	SO	G	1		1						

1. RELINQUISHED BY	DATE 9/12/12	TIME 1100	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-20 | PAGE _3_ OF _3_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane - UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2200		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	Lead	PAHs	Lead				COMMENTS
									Container Type Plastic (P) or Glass (G)	G	G	P				
									Preservative Used	4°C	4°C	HNO3				
9/9	950	X7-SB568-0102	SB568	1	2	SO	G	1		1						
9/9	945	X7-SB569-0102	SB569	1	2	SO	G	1		1						
9/9	910	X7-SB577-0001	SB577	0	1	SO	G	1		1						
9/10	1705	X7-SB608-0001	SB608	0	1	SO	G	1		1						
9/10	0000	FD-091012-01	QC	—	—	SO	G	1		1						X7-SB358-0406
9/10	1010	RB091012-01	QC	—	—	QC	G	2			2					
9/10	1010	RB091012-02	QC	—	—	QC	G	1				1				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9/12/12	1100	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

Lab copy

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100412-01 | PAGE _1_ OF _5_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1052		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
10/3	1500	X7-SS497-0001	SB497	0	1	SO	G	1		1						
10/3	1500	X7-SS497-0102	SB497	1	2	SO	G	1		1						
10/3	1500	X7-SB497-0204	SB497	2	4	SO	G	1		1						Extract & Hold
10/3	1500	X7-SB497-0406	SB497	4	6	SO	G	1		1						Extract & Hold
10/3	1530	X7-SS504-0001	SB504	0	1	SO	G	1		1						
10/3	1530	X7-SS504-0102	SB504	1	2	SO	G	1		1						
10/3	1530	X7-SB504-0204	SB504	2	4	SO	G	1		1						Extract & Hold
10/3	1530	X7-SB504-0406	SB504	4	6	SO	G	1		1						Extract & Hold
10/3	1515	X7-SS506-0001	SB506	0	1	SO	G	1		1						
10/3	1515	X7-SS506-0102	SB506	1	2	SO	G	1		1						
10/3	1515	X7-SB506-0204	SB506	2	4	SO	G	1		1						Extract & Hold
10/3	1515	X7-SB506-0406	SB506	4	6	SO	G	1		1						Extract & Hold
10/3	1520	X7-SS513-0001	SB513	0	1	SO	G	1		1						

1. RELINQUISHED BY	DATE 10/5/12	TIME 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100412-02 | PAGE _2_ OF _5_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1052		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
10/3	1520	X7-SS513-0102	SB513	1	2	SO	G	1		1						
10/3	1520	X7-SB513-0204	SB513	2	4	SO	G	1		1						Extract & Hold
10/3	1520	X7-SB513-0406	SB513	4	6	SO	G	1		1						Extract & Hold
10/3	1540	X7-SS533-0001	SB533	0	1	SO	G	1		1						
10/3	1540	X7-SS533-0102	SB533	1	2	SO	G	1		1						
10/3	1540	X7-SB533-0204	SB533	2	4	SO	G	1		1						Extract & Hold
10/3	1540	X7-SB533-0406	SB533	4	6	SO	G	1		1						Extract & Hold
10/3	1600	X7-SS540-0001	SB540	0	1	SO	G	1		1						
10/3	1600	X7-SS540-0102	SB540	1	2	SO	G	1		1						
10/3	1600	X7-SB540-0204	SB540	2	4	SO	G	1		1						Extract & Hold
10/3	1600	X7-SB540-0406	SB540	4	6	SO	G	1		1						Extract & Hold
10/3	1545	X7-SS546-0001	SB546	0	1	SO	G	1		1						
10/3	1545	X7-SS546-0102	SB546	1	2	SO	G	1		1						

1. RELINQUISHED BY	DATE 10/5/12	TIME 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100412-03 | PAGE _3_ OF _5_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1052		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
10/3	1545	X7-SB546-0204	SB546	2	4	SO	G	1		1						Extract & Hold
10/3	1545	X7-SB546-0406	SB546	4	6	SO	G	1		1						Extract & Hold
10/3	0000	FD100312-06	QC	–	–	QC	G	1		1						Extract & Hold X7-SB441-0204
10/3	0000	FD100312-07	QC	–	–	QC	G	1		1						X7-SS442-0001
10/3	0000	FD100312-08	QC	–	–	QC	G	1		1						X7-SS442-0102

1. RELINQUISHED BY	DATE 10/5/12	TIME 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100412-04 | PAGE _4_ OF _5_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1052		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
10/3	1635	X7-SS441-0001	SB441	0	1	SO	G	1		1						
10/3	1635	X7-SS441-0102	SB441	1	2	SO	G	1		1						
10/3	1635	X7-SB441-0204	SB441	2	4	SO	G	1		1						Extract & Hold
10/3	1635	X7-SB441-0406	SB441	4	6	SO	G	3		3						Extract & Hold (MS/MSD)
10/3	1640	X7-SS442-0001	SB442	0	1	SO	G	1		1						
10/3	1640	X7-SS442-0102	SB442	1	2	SO	G	1		1						
10/3	1640	X7-SB442-0204	SB442	2	4	SO	G	1		1						Extract & Hold
10/3	1640	X7-SB442-0406	SB442	4	6	SO	G	1		1						Extract & Hold
10/3	1645	X7-SS443-0001	SB443	0	1	SO	G	3		3						MS/MSD
10/3	1645	X7-SS443-0102	SB443	1	2	SO	G	3		3						MS/MSD
10/3	1645	X7-SB443-0204	SB443	2	4	SO	G	1		1						Extract & Hold
10/3	1645	X7-SB443-0406	SB443	4	6	SO	G	1		1						Extract & Hold
10/3	1625	X7-SS469-0001	SB469	0	1	SO	G	1		1						

1. RELINQUISHED BY	DATE 10/5/12	TIME 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 100412-05 | PAGE _5_ OF _5_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8013 8269 1052		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
10/3	1625	X7-SS469-0102	SB469	1	2	SO	G	1		1						
10/3	1625	X7-SB469-0204	SB469	2	4	SO	G	1		1						Extract & Hold
10/3	1625	X7-SB469-0406	SB469	4	6	SO	G	1		1						Extract & Hold
10/3	1620	X7-SS470-0001	SB470	0	1	SO	G	1		1						
10/3	1620	X7-SS470-0102	SB470	1	2	SO	G	1		1						
10/3	1620	X7-SB470-0204	SB470	2	4	SO	G	1		1						Extract & Hold
10/3	1620	X7-SB470-0406	SB470	4	6	SO	G	1		1						Extract & Hold
10/3	1615	X7-SS472-0001	SB472	0	1	SO	G	1		1						
10/3	1615	X7-SS472-0102	SB472	1	2	SO	G	1		1						
10/3	1615	X7-SB472-0204	SB472	2	4	SO	G	1		1						Extract & Hold
10/3	1615	X7-SB472-0406	SB472	4	6	SO	G	1		1						Extract & Hold

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/5/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-01 | PAGE _1_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	925	X7-SB075-0204	SB075	2	4	SO	G	1		1						
9/6	925	X7-SB075-0406	SB075	4	6	SO	G	3		3						MS/MSD
9/6	935	X7-SB242-0204	SB242	2	4	SO	G	1		1						
9/6	935	X7-SB242-0406	SB242	4	6	SO	G	1		1						
9/6	1035	X7-SB243-0204	SB243	2	4	SO	G	1		1						
9/6	1035	X7-SB243-0406	SB243	4	6	SO	G	3		3						MS/MSD
9/6	915	X7-SB247-0204	SB247	2	4	SO	G	1		1						
9/6	915	X7-SB247-0406	SB247	4	6	SO	G	1		1						
9/6	1010	X7-SB254-0204	SB254	2	4	SO	G	1		1						
9/6	1010	X7-SB254-0406	SB254	4	6	SO	G	1		1						
9/6	1025	X7-SB255-0204	SB255	2	4	SO	G	1		1						
9/6	1025	X7-SB255-0406	SB255	4	6	SO	G	1		1						
9/6	1055	X7-SB256-0204	SB256	2	4	SO	G	1		1						

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
Kevin Losekamp	09/07/12	1800			
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-02 | PAGE _2_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	1055	X7-SB256-0406	SB256	4	6	SO	G	1		1						
9/6	905	X7-SB261-0204	SB261	2	4	SO	G	1		1						
9/6	905	X7-SB261-0406	SB261	4	6	SO	G	1		1						
9/6	945	X7-SS491-0001	SB491	0	1	SO	G	1		1						
9/6	945	X7-SS491-0102	SB491	1	2	SO	G	1		1						
9/6	945	X7-SB491-0204	SB491	2	4	SO	G	1		1						Extract & Hold
9/6	945	X7-SB491-0406	SB491	4	6	SO	G	1		1						Extract & Hold
9/6	950	X7-SS492-0001	SB492	0	1	SO	G	1		1						
9/6	950	X7-SS492-0102	SB492	1	2	SO	G	1		1						
9/6	950	X7-SB492-0204	SB492	2	4	SO	G	1		1						Extract & Hold
9/6	950	X7-SB492-0406	SB492	4	6	SO	G	1		1						Extract & Hold
9/6	1015	X7-SS493-0001	SB493	0	1	SO	G	1		1						
9/6	1015	X7-SS493-0102	SB493	1	2	SO	G	1		1						

1. RELINQUISHED BY: Kevin Coscamp	DATE: 09/07/12	TIME: 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-03 | PAGE _3_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	1015	X7-SB493-0204	SB493	2	4	SO	G	3		3						Extract & Hold *(MS/MSD)
9/6	1015	X7-SB493-0406	SB493	4	6	SO	G	1		1						Extract & Hold
9/6	1105	X7-SS494-0001	SB494	0	1	SO	G	1		1						
9/6	1105	X7-SS494-0102	SB494	1	2	SO	G	3		3						MS/MSD
9/6	1105	X7-SB494-0204	SB494	2	4	SO	G	1		1						Extract & Hold
9/6	1105	X7-SB494-0406	SB494	4	6	SO	G	1		1						Extract & Hold
9/6	1155	X7-SS498-0001	SB498	0	1	SO	G	1		1						
9/6	1155	X7-SS498-0102	SB498	1	2	SO	G	1		1						
9/6	1155	X7-SB498-0204	SB498	2	4	SO	G	1		1						Extract & Hold
9/6	1155	X7-SB498-0406	SB498	4	6	SO	G	1		1						Extract & Hold
9/6	840	X7-SS502-0001	SB502	0	1	SO	G	1		1						
9/6	840	X7-SS502-0102	SB502	1	2	SO	G	1		1						
9/6	840	X7-SB502-0204	SB502	2	4	SO	G	1		1						Extract & Hold

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Kevin Loskamp	09/07/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: *Only analyze MS/MSD if associated sample is to be analyzed upon direction by Tetra Tech.

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-04 | PAGE _4_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	840	X7-SS502-0406	SB502	4	6	SO	G	1		1						Extract & Hold
9/6	1115	X7-SS503-0001	SB503	0	1	SO	G	1		1						
9/6	1115	X7-SS503-0102	SB503	1	2	SO	G	1		1						
9/6	1115	X7-SB503-0204	SB503	2	4	SO	G	1		1						Extract & Hold
9/6	1115	X7-SB503-0406	SB503	4	6	SO	G	1		1						Extract & Hold
9/6	1145	X7-SS505-0001	SB505	0	1	SO	G	1		1						
9/6	1145	X7-SS505-0102	SB505	1	2	SO	G	1		1						
9/6	1145	X7-SB505-0204	SB505	2	4	SO	G	1		1						Extract & Hold
9/6	1145	X7-SB505-0406	SB505	4	6	SO	G	1		1						Extract & Hold
9/6	1205	X7-SS507-0001	SB507	0	1	SO	G	1		1						
9/6	1205	X7-SS507-0102	SB507	1	2	SO	G	1		1						
9/6	1205	X7-SB507-0204	SB507	2	4	SO	G	1		1						Extract & Hold
9/6	1205	X7-SB507-0406	SB507	4	6	SO	G	1		1						Extract & Hold

1. RELINQUISHED BY: Kevin Losekamp	DATE: 09/07/12	TIME: 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-05 | PAGE _5_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	845	X7-SS510-0001	SB510	0	1	SO	G	1		1						
9/6	845	X7-SS510-0102	SB510	1	2	SO	G	1		1						
9/6	845	X7-SB510-0204	SB510	2	4	SO	G	1		1						Extract & Hold
9/6	845	X7-SB510-0406	SB510	4	6	SO	G	1		1						Extract & Hold
9/6	1120	X7-SS511-0001	SB511	0	1	SO	G	1		1						
9/6	1120	X7-SS511-0102	SB511	1	2	SO	G	1		1						
9/6	1120	X7-SB511-0204	SB511	2	4	SO	G	1		1						Extract & Hold
9/6	1120	X7-SB511-0406	SB511	4	6	SO	G	1		1						Extract & Hold
9/6	855	X7-SS518-0001	SB518	0	1	SO	G	1		1						
9/6	855	X7-SS518-0102	SB518	1	2	SO	G	1		1						
9/6	855	X7-SB518-0204	SB518	2	4	SO	G	1		1						Extract & Hold
9/6	855	X7-SB518-0406	SB518	4	6	SO	G	1		1						Extract & Hold
9/6	1045	X7-SS519-0001	SB519	0	1	SO	G	1		1						

1. RELINQUISHED BY: Kevin Losekamp	DATE: 09/07/12	TIME: 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-06 | PAGE _6_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane - UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/6	1045	X7-SS519-0102	SB519	1	2	SO	G	1		1						
9/6	1045	X7-SB519-0204	SB519	2	4	SO	G	1		1						Extract & Hold
9/6	1045	X7-SB519-0406	SB519	4	6	SO	G	1		1						Extract & Hold
9/6	1130	X7-SS521-0001	SB521	0	1	SO	G	1		1						
9/6	1130	X7-SS521-0102	SB521	1	2	SO	G	1		1						
9/6	1130	X7-SB521-0204	SB521	2	4	SO	G	1		1						Extract & Hold
9/6	1130	X7-SB521-0406	SB521	4	6	SO	G	1		1						Extract & Hold
9/6	1135	X7-SS522-0001	SB522	0	1	SO	G	1		1						
9/6	1135	X7-SS522-0102	SB522	1	2	SO	G	1		1						
9/6	1135	X7-SB522-0204	SB522	2	4	SO	G	1		1						Extract & Hold
9/6	1135	X7-SB522-0406	SB522	4	6	SO	G	1		1						Extract & Hold
9/6	1355	X7-SS525-0001	SB525	0	1	SO	G	1		1						
9/6	1355	X7-SS525-0102	SB525	1	2	SO	G	1		1						

1. RELINQUISHED BY Kevin Coskkamp	DATE 9/07/12	TIME 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-07 | PAGE _7_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/6	1355	X7-SB525-0204	SB525	2	4	SO	G	1		1						Extract & Hold
9/6	1355	X7-SB525-0406	SB525	4	6	SO	G	1		1						Extract & Hold
9/6	1400	X7-SS526-0001	SB526	0	1	SO	G	1		1						
9/6	1400	X7-SS526-0102	SB526	1	2	SO	G	1		1						
9/6	1400	X7-SB526-0204	SB526	2	4	SO	G	1		1						Extract & Hold
9/6	1400	X7-SB526-0406	SB526	4	6	SO	G	1		1						Extract & Hold
9/6	1410	X7-SS527-0001	SB527	0	1	SO	G	1		1						
9/6	1410	X7-SS527-0102	SB527	1	2	SO	G	1		1						
9/6	1410	X7-SB527-0204	SB527	2	4	SO	G	1		1						Extract & Hold
9/6	1410	X7-SB527-0406	SB527	4	6	SO	G	1		1						Extract & Hold
9/6	1420	X7-SS528-0001	SB528	0	1	SO	G	1		1						
9/6	1420	X7-SS528-0102	SB528	1	2	SO	G	1		1						
9/6	1420	X7-SB528-0204	SB528	2	4	SO	G	1		1						Extract & Hold

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Erin Loskamp	9/07/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-08 | PAGE _8_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/6	1420	X7-SB528-0406	SB528	4	6	SO	G	1		1						Extract & Hold
9/6	1430	X7-SS529-0001	SB529	0	1	SO	G	1		1						
9/6	1430	X7-SS529-0102	SB529	1	2	SO	G	1		1						
9/6	1430	X7-SB529-0204	SB529	2	4	SO	G	1		1						Extract & Hold
9/6	1430	X7-SB529-0406	SB529	4	6	SO	G	1		1						Extract & Hold
9/6	1440	X7-SS530-0001	SB530	0	1	SO	G	1		1						
9/6	1440	X7-SS530-0102	SB530	1	2	SO	G	1		1						
9/6	1440	X7-SB530-0204	SB530	2	4	SO	G	1		1						Extract & Hold
9/6	1440	X7-SB530-0406	SB530	4	6	SO	G	1		1						Extract & Hold
9/6	1450	X7-SS531-0001	SB531	0	1	SO	G	1		1						
9/6	1450	X7-SS531-0102	SB531	1	2	SO	G	1		1						
9/6	1450	X7-SB531-0204	SB531	2	4	SO	G	1		1						Extract & Hold
9/6	1450	X7-SB531-0406	SB531	4	6	SO	G	1		1						Extract & Hold

1. RELINQUISHED BY: Kevin Loschkamp	DATE: 9/07/12	TIME: 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-09 | PAGE _9_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	1535	X7-SS535-0001	SB535	0	1	SO	G	1		1						
9/6	1535	X7-SS535-0102	SB535	1	2	SO	G	1		1						
9/6	1535	X7-SB535-0204	SB535	2	4	SO	G	1		1						Extract & Hold
9/6	1535	X7-SB535-0406	SB535	4	6	SO	G	1		1						Extract & Hold
9/6	1510	X7-SS536-0001	SB536	0	1	SO	G	1		1						
9/6	1510	X7-SS536-0102	SB536	1	2	SO	G	1		1						
9/6	1510	X7-SB536-0204	SB536	2	4	SO	G	1		1						Extract & Hold
9/6	1510	X7-SB536-0406	SB536	4	6	SO	G	3		3						Extract & Hold *MS/MSD
9/6	1525	X7-SS541-0001	SB541	0	1	SO	G	1		1						
9/6	1525	X7-SS541-0102	SB541	1	2	SO	G	1		1						
9/6	1525	X7-SB541-0204	SB541	2	4	SO	G	1		1						Extract & Hold
9/6	1525	X7-SB541-0406	SB541	4	6	SO	G	1		1						Extract & Hold
9/6	1520	X7-SS542-0001	SB542	0	1	SO	G	1		1						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Kevin Loskamp	09/07/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: *Only analyze MS/MSD if associated sample is to be analyzed upon direction by Tetra Tech.

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-10 | PAGE _10_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/6	1520	X7-SS542-0102	SB542	1	2	SO	G	1		1						
9/6	1520	X7-SB542-0204	SB542	2	4	SO	G	1		1						Extract & Hold
9/6	1520	X7-SB542-0406	SB542	4	6	SO	G	1		1						Extract & Hold
9/6	0000	FD090612-01	QC	–	–	SO	G	1		1						
9/6	0000	FD090612-02	QC	–	–	SO	G	1		1						
9/6	0000	FD090612-03	QC	–	–	SO	G	1		1						
9/6	0000	FD090612-04	QC	–	–	SO	G	1		1						Extract & Hold
9/6	0000	FD090612-05	QC	–	–	SO	G	1		1						Extract & Hold

1. RELINQUISHED BY: Kevin Loskeamp	DATE: 09/07/12	TIME: 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC.

CHAIN OF CUSTODY | NUMBER 092012-11 | PAGE _11_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/7	1245	X7-SB116-0204	SB116	2	4	SO	G	1		1						
9/7	1245	X7-SB116-0406	SB116	4	6	SO	G	1		1						
9/7	920	X7-SB121-0204	SB121	2	4	SO	G	1		1						
9/7	920	X7-SB121-0406	SB121	4	6	SO	G	1		1						
9/7	1225	X7-SB123-0204	SB123	2	4	SO	G	1		1						
9/7	1225	X7-SB123-0406	SB123	4	6	SO	G	1		1						
9/7	1235	X7-SB203-0204	SB203	2	4	SO	G	1		1						
9/7	1235	X7-SB203-0406	SB203	4	6	SO	G	1		1						
9/7	930	X7-SB227-0204	SB227	2	4	SO	G	1		1						
9/7	930	X7-SB227-0406	SB227	4	6	SO	G	1		1						
9/7	1350	X7-SS439-0001	SB439	0	1	SO	G	1		1						
9/7	1350	X7-SS439-0102	SB439	1	2	SO	G	1		1						
9/7	1350	X7-SB439-0204	SB439	2	4	SO	G	1		1						Extract & Hold

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
Kevin Loselkamp	09/07/12				
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-12 | PAGE _12_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane - UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/7	1350	X7-SB439-0406	SB439	4	6	SO	G	1		1						Extract & Hold
9/7	1305	X7-SS445-0001	SB445	0	1	SO	G	1		1						
9/7	1305	X7-SS445-0102	SB445	1	2	SO	G	1		1						
9/7	1305	X7-SB445-0204	SB445	2	4	SO	G	1		1						Extract & Hold
9/7	1305	X7-SB445-0406	SB445	4	6	SO	G	1		1						Extract & Hold
9/7	1255	X7-SS446-0001	SB446	0	1	SO	G	1		1						
9/7	1255	X7-SS446-0102	SB446	1	2	SO	G	1		1						
9/7	1255	X7-SB446-0204	SB446	2	4	SO	G	1		1						Extract & Hold
9/7	1255	X7-SB446-0406	SB446	4	6	SO	G	1		1						Extract & Hold
9/7	1325	X7-SS447-0001	SB447	0	1	SO	G	1		1						
9/7	1325	X7-SS447-0102	SB447	1	2	SO	G	1		1						
9/7	1325	X7-SB447-0204	SB447	2	4	SO	G	1		1						Extract & Hold
9/7	1325	X7-SB447-0406	SB447	4	6	SO	G	1		1						Extract & Hold

1. RELINQUISHED BY: Kevin Cosekamp	DATE: 09/07/12	TIME: 1800	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC.

CHAIN OF CUSTODY | NUMBER 092012-13 | PAGE _13_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/7	1330	X7-SS448-0001	SB448	0	1	SO	G	1		1						
9/7	1330	X7-SS448-0102	SB448	1	2	SO	G	1		1						
9/7	1330	X7-SB448-0204	SB448	2	4	SO	G	1		1						Extract & Hold
9/7	1330	X7-SB448-0406	SB448	4	6	SO	G	1		1						Extract & Hold
9/7	1340	X7-SS449-0001	SB449	0	1	SO	G	1		1						
9/7	1340	X7-SS449-0102	SB449	1	2	SO	G	1		1						
9/7	1340	X7-SB449-0204	SB449	2	4	SO	G	1		1						Extract & Hold
9/7	1340	X7-SB449-0406	SB449	4	6	SO	G	1		1						Extract & Hold
9/6	1555	X7-SS451-0001	SB451	0	1	SO	G	1		1						
9/6	1555	X7-SS451-0102	SB451	1	2	SO	G	1		1						
9/6	1555	X7-SB451-0204	SB451	2	4	SO	G	1		1						Extract & Hold
9/6	1555	X7-SB451-0406	SB451	4	6	SO	G	1		1						Extract & Hold
9/6	1605	X7-SS453-0001	SB453	0	1	SO	G	1		1						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Kevin Loseckamp	09/07/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-14 | PAGE _14_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	G						COMMENTS
									Preservative Used	4°C						
									TYPE OF ANALYSIS	PAHs						
9/6	1605	X7-SS453-0102	SB453	1	2	SO	G	1		1						
9/6	1605	X7-SB453-0204	SB453	2	4	SO	G	1		1						Extract & Hold
9/6	1605	X7-SB453-0406	SB453	4	6	SO	G	1		1						Extract & Hold
9/6	1615	X7-SS455-0001	SB455	0	1	SO	G	1		1						
9/6	1615	X7-SS455-0102	SB455	1	2	SO	G	1		1						
9/6	1615	X7-SB455-0204	SB455	2	4	SO	G	1		1						Extract & Hold
9/6	1615	X7-SB455-0406	SB455	4	6	SO	G	1		1						Extract & Hold
9/6	1625	X7-SS457-0001	SB457	0	1	SO	G	1		1						
9/6	1625	X7-SS457-0102	SB457	1	2	SO	G	1		1						
9/6	1625	X7-SB457-0204	SB457	2	4	SO	G	1		1						Extract & Hold
9/6	1625	X7-SB457-0406	SB457	4	6	SO	G	1		1						Extract & Hold
9/7	910	X7-SS459-0001	SB459	0	1	SO	G	1		1						
9/7	910	X7-SS459-0102	SB459	1	2	SO	G	1		1						

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
Kevin Lovekamp	09/07/12	1800			
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-15 | PAGE _15_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Container Type Plastic (P) or Glass (G)	Preservative Used	TYPE OF ANALYSIS						COMMENTS
									G	4°C	PAHs						
9/7	910	X7-SB459-0204	SB459	2	4	SO	G	1			1						Extract & Hold
9/7	910	X7-SB459-0406	SB459	4	6	SO	G	1			1						Extract & Hold
9/7	810	X7-SS460-0001	SB460	0	1	SO	G	1			1						
9/7	810	X7-SS460-0102	SB460	1	2	SO	G	1			1						
9/7	810	X7-SB460-0204	SB460	2	4	SO	G	1			1						Extract & Hold
9/7	810	X7-SB460-0406	SB460	4	6	SO	G	1			1						Extract & Hold
9/7	855	X7-SS462-0001	SB462	0	1	SO	G	3			3						MS/MSD
9/7	855	X7-SS462-0102	SB462	1	2	SO	G	1			1						
9/7	855	X7-SB462-0204	SB462	2	4	SO	G	1			1						Extract & Hold
9/7	855	X7-SB462-0406	SB462	4	6	SO	G	1			1						Extract & Hold
9/7	850	X7-SS463-0001	SB463	0	1	SO	G	1			1						
9/7	850	X7-SS463-0102	SB463	1	2	SO	G	1			1						
9/7	850	X7-SB463-0204	SB463	2	4	SO	G	1			1						Extract & Hold

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
Kevin Coskamp	09/07/12	1800			
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-16 | PAGE _16_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/7	850	X7-SB463-0406	SB463	4	6	SO	G	1		1						Extract & Hold
9/7	840	X7-SS464-0001	SB464	0	1	SO	G	1		1						
9/7	840	X7-SS464-0102	SB464	1	2	SO	G	1		1						
9/7	840	X7-SB464-0204	SB464	2	4	SO	G	1		1						Extract & Hold
9/7	840	X7-SB464-0406	SB464	4	6	SO	G	1		1						Extract & Hold
9/7	825	X7-SS465-0001	SB465	0	1	SO	G	3		3						MS/MSD
9/7	825	X7-SS465-0102	SB465	1	2	SO	G	1		1						
9/7	825	X7-SB465-0204	SB465	2	4	SO	G	1		1						Extract & Hold
9/7	825	X7-SB465-0406	SB465	4	6	SO	G	3		3						Extract & Hold *MS/MSD
9/7	815	X7-SS466-0001	SB466	0	1	SO	G	1		1						
9/7	815	X7-SS466-0102	SB466	1	2	SO	G	1		1						
9/7	815	X7-SB466-0204	SB466	2	4	SO	G	1		1						Extract & Hold
9/7	815	X7-SB466-0406	SB466	4	6	SO	G	3		3						Extract & Hold *MS/MSD

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Kevin Losekamp	09/07/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: *Only analyze MS/MSD if associated sample is to be analyzed upon direction by Tetra Tech.

TETRA TECH, INC. | CHAIN OF CUSTODY | NUMBER 092012-17 | PAGE _17_ OF _17_

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01621	NSA Crane – UXO 7	Rick Barringer	412-921-8524	Gel Laboratories / Heather Shaffer (843-769-7386)
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Jim Goerdt	PHONE NUMBER: 412-921-8425	ADDRESS: 2040 Savage Road
		CARRIER/WAYBILL NUMBER: Fed Ex / 8735 6012 2162		CITY, STATE: Charleston, SC 29407

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR: 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS	PAHs						COMMENTS
									Container Type Plastic (P) or Glass (G)	G						
									Preservative Used	4°C						
9/7	835	X7-SS471-0001	SB471	0	1	SO	G	1		1						
9/7	835	X7-SS471-0102	SB471	1	2	SO	G	1		1						
9/7	835	X7-SB471-0204	SB471	2	4	SO	G	1		1						Extract & Hold
9/7	835	X7-SB471-0406	SB471	4	6	SO	G	1		1						Extract & Hold
9/7	0000	FD090712-01	QC	–	–	SO	G	1		1						
9/7	0000	FD090712-02	QC	–	–	SO	G	1		1						
9/7	0000	FD090712-03	QC	–	–	SO	G	1		1						Extract & Hold
9/7	0000	FD090712-04	QC	–	–	SO	G	1		1						Extract & Hold
9/7	0000	FD090712-05	QC	–	–	SO	G	1		1						Extract & Hold
9/7	0000	FD090712-06	QC	–	–	SO	G	1		1						Extract & Hold

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Kevin Losekan	09/07/12	1800	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS200-0001	HA	0-1	11/10	950	L	G	1	1								
X7-SS200-0102	HA	1-2	11/10	950	L	G	1	1								
X7-SS201-0001	HA	0-1	11/10	930	L	G	1	1								
X7-SS201-0102	HA	1-2	11/10	930	L	G	1	1								
X7-SS202-0001	HA	0-1	11/10	925	L	G	1	1								
X7-SS202-0102	HA	1-2	11/10	925	L	G	1	1								
X7-SS203-0001	HA	0-1	11/10	920	L	G	1	1								
X7-SS203-0102	HA	1-2	11/10	920	L	G	1	1								
X7-SS204-0001	HA	0-1	11/10	1050	L	G	3	3			X					
X7-SS204-0102	HA	1-2	11/10	1050	L	G	1	1								
X7-SS205-0001	HA	0-1	11/10	1115	L	G	1	1								
X7-SS205-0102	HA	1-2	11/10	1115	L	G	1	1				X				FD1110911-03
X7-SS206-0001	HA	0-1	11/10	955	L	G	1	1								
X7-SS206-0102	HA	1-2	11/10	955	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS207-0001	HA	0-1	11/10	910	L	G	1	1								
X7-SS207-0102	HA	1-2	11/10	910	L	G	1	1								
X7-SS208-0001	HA	0-1	11/10	900	L	G	1	1								
X7-SS208-0102	HA	1-2	11/10	900	L	G	1	1								
X7-SS209-0001	HA	0-1	11/10	900	L	G	1	1								
X7-SS209-0102	HA	1-2	11/10	900	L	G	1	1								
X7-SS210-0001	HA	0-1	11/10	855	L	G	3	3			X					
X7-SS210-0102	HA	1-2	11/10	855	L	G	1	1								
X7-SS211-0001	HA	0-1	11/10	1305	L	G	1	1								
X7-SS211-0102	HA	1-2	11/10	1305	L	G	1	1								
X7-SS212-0001	HA	0-1	11/10	1125	L	G	1	1								
X7-SS212-0102	HA	1-2	11/10	1125	L	G	1	1								
X7-SS213-0001	HA	0-1	11/10	1310	L	G	1	1								
X7-SS213-0102	HA	1-2	11/10	1310	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS214-0001	HA	0-1	11/10	1313	L	G	1	1								
X7-SS214-0102	HA	1-2	11/10	1313	L	G	1	1								
X7-SS215-0001	HA	0-1	11/10	1335	L	G	1	1								
X7-SS215-0102	HA	1-2	11/10	1335	L	G	1	1				X				FD111011-02
X7-SS216-0001	HA	0-1	11/10	1345	L	G	1	1								
X7-SS216-0102	HA	1-2	11/10	1345	L	G	1	1								
X7-SS217-0001	HA	0-1	11/10	1100	L	G	1	1								
X7-SS217-0102	HA	1-2	11/10	1100	L	G	1	1								
X7-SS218-0001	HA	0-1	11/10	1035	L	G	1	1								
X7-SS218-0102	HA	1-2	11/10	1035	L	G	1	1								
X7-SS219-0001	HA	0-1	11/10	1040	L	G	1	1								
X7-SS219-0102	HA	1-2	11/10	1040	L	G	1	1								
X7-SS220-0001	HA	0-1	11/10	1050	L	G	1	1								
X7-SS220-0102	HA	1-2	11/10	1050	L	G	1	1								

REMARKS:	LABORATORY:	COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS221-0001	HA	0-1	11/10	1120	L	G	1	1								
X7-SS221-0102	HA	1-2	11/10	1120	L	G	1	1								
X7-SS222-0001	HA	0-1	11/10	920	L	G	1	1				X				FD111011-04
X7-SS222-0102	HA	1-2	11/10	920	L	G	1	1								
X7-SS223-0001	HA	0-1	11/10	845	L	G	1	1								
X7-SS223-0102	HA	1-2	11/10	845	L	G	1	1								
X7-SS224-0001	HA	0-1	11/10	835	L	G	1	1								
X7-SS225-0001	HA	0-1	11/10	830	L	G	1	1								
X7-SS225-0102	HA	1-2	11/10	830	L	G	1	1								
X7-SS226-0001	HA	0-1	11/10	845	L	G	1	1								
X7-SS226-0102	HA	1-2	11/10	845	L	G	1	1								
X7-SS227-0001	HA	0-1	11/10	1000	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS228-0001	HA	0-1	11/10	1010	L	G	1	1								
X7-SS228-0102	HA	1-2	11/10	1010	L	G	1	1								
X7-SS229-0001	HA	0-1	11/10	1030	L	G	1	1								
X7-SS229-0102	HA	1-2	11/10	1030	L	G	1	1								
X7-SS230-0001	HA	0-1	11/10	1025	L	G	1	1								
X7-SS230-0102	HA	1-2	11/10	1025	L	G	1	1								
X7-SS231-0001	HA	0-1	11/10	1030	L	G	1	1								
X7-SS232-0001	HA	0-1	11/10	1104	L	G	1	1								
X7-SS232-0102	HA	1-2	11/10	1104	L	G	1	1								
X7-SS233-0001	HA	0-1	11/10	1115	L	G	1	1								
X7-SS233-0102	HA	1-2	11/10	1115	L	G	1	1								
X7-SS234-0001	HA	0-1	11/10	1325	L	G	3	3			X					
X7-SS234-0102	HA	1-2	11/10	1325	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS235-0001	HA	0-1	11/10	1355	L	G	3	3			X					
X7-SS235-0102	HA	1-2	11/10	1355	L	G	1	1								
X7-SS236-0001	HA	0-1	11/10	1345	L	G	1	1								
X7-SS236-0102	HA	1-2	11/10	1345	L	G	1	1								
X7-SS237-0001	HA	0-1	11/10	1320	L	G	1	1								
X7-SS238-0001	HA	0-1	11/10	1330	L	G	1	1								
X7-SS239-0001	HA	0-1	11/10	1010	L	G	1	1								
X7-SS240-0001	HA	0-1	11/10	950	L	G	1	1								
X7-SS240-0102	HA	1-2	11/10	950	L	G	1	1								
X7-SS241-0001	HA	0-1	11/10	935	L	G	1	1								
X7-SS241-0102	HA	1-2	11/10	935	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS242-0001	HA	0-1	11/09	1255	L	G	1	1								
X7-SS242-0102	HA	1-2	11/09	1255	L	G	1	1								
X7-SS243-0001	HA	0-1	11/09	1305	L	G	1	1								
X7-SS243-0102	HA	1-2	11/09	1305	L	G	1	1								
X7-SS244-0001	HA	0-1	11/09	1320	L	G	1	1								
X7-SS244-0102	HA	1-2	11/09	1320	L	G	1	1								
X7-SS245-0001	HA	0-1	11/09	1330	L	G	1	1								
X7-SS245-0102	HA	1-2	11/09	1330	L	G	1	1								
X7-SS246-0001	HA	0-1	11/09	1355	L	G	1	1								
X7-SS246-0102	HA	1-2	11/09	1355	L	G	1	1								
X7-SS247-0001	HA	0-1	11/09	1405	L	G	1	1								
X7-SS247-0102	HA	1-2	11/09	1405	L	G	1	1								
X7-SS248-0001	HA	0-1	11/09	1020	L	G	1	1				X				FD110911-02
X7-SS248-0102	HA	1-2	11/09	1020	L	G	3	3			X					

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS249-0001	HA	0-1	11/09	1010	L	G	1	1								
X7-SS249-0102	HA	1-2	11/09	1010	L	G	1	1								
X7-SS250-0001	HA	0-1	11/09	1005	L	G	1	1				X				FD110911-04
X7-SS250-0102	HA	1-2	11/09	1005	L	G	1	1								
X7-SS251-0001	HA	0-1	11/09	1100	L	G	1	1								
X7-SS251-0102	HA	1-2	11/09	1100	L	G	1	1								
X7-SS252-0001	HA	0-1	11/09	1050	L	G	1	1								
X7-SS252-0102	HA	1-2	11/09	1050	L	G	1	1								
X7-SS253-0001	HA	0-1	11/09	1030	L	G	1	1								
X7-SS253-0102	HA	1-2	11/09	1030	L	G	1	1								
X7-SS254-0001	HA	0-1	11/09	1325	L	G	1	1								
X7-SS254-0102	HA	1-2	11/09	1325	L	G	1	1								
X7-SS255-0001	HA	0-1	11/09	1330	L	G	1	1								
X7-SS255-0102	HA	1-2	11/09	1330	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS256-0001	HA	0-1	11/09	1345	L	G	1	1								
X7-SS256-0102	HA	1-2	11/09	1345	L	G	1	1								
X7-SS257-0001	HA	0-1	11/09	1350	L	G	1	1				X				FD110911-03
X7-SS257-0102	HA	1-2	11/09	1350	L	G	3	3			X					
X7-SS258-0001	HA	0-1	11/09	1405	L	G	1	1								
X7-SS258-0102	HA	1-2	11/09	1405	L	G	1	1								
X7-SS259-0001	HA	0-1	11/09	1415	L	G	1	1								
X7-SS259-0102	HA	1-2	11/09	1415	L	G	1	1								
X7-SS260-0001	HA	0-1	11/09	1420	L	G	1	1								
X7-SS260-0102	HA	1-2	11/09	1420	L	G	1	1								
X7-SS261-0001	HA	0-1	11/09	1300	L	G	1	1								
X7-SS261-0102	HA	1-2	11/09	1300	L	G	1	1								
X7-SS262-0001	HA	0-1	11/09	1305	L	G	1	1								
X7-SS262-0102	HA	1-2	11/09	1305	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS263-0001	HA	0-1	11/09	1315	L	G	1	1								
X7-SS263-0102	HA	1-2	11/09	1315	L	G	1	1								
X7-SS264-0001	HA	0-1	11/09	1035	L	G	1	1								
X7-SS264-0102	HA	1-2	11/09	1035	L	G	1	1								
X7-SS265-0001	HA	0-1	11/09	1045	L	G	1	1								
X7-SS265-0102	HA	1-2	11/09	1045	L	G	1	1								
X7-SS266-0001	HA	0-1	11/09	1050	L	G	1	1								
X7-SS266-0102	HA	1-2	11/09	1050	L	G	1	1								
X7-SS267-0001	HA	0-1	11/09	1100	L	G	1	1								
X7-SS267-0102	HA	1-2	11/09	1100	L	G	1	1								
X7-SS268-0001	HA	0-1	11/09	1110	L	G	1	1								
X7-SS268-0102	HA	1-2	11/09	1110	L	G	1	1								
X7-SS269-0001	HA	0-1	11/09	1115	L	G	1	1								
X7-SS269-0102	HA	1-2	11/09	1115	L	G	1	1								

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech NUS, Inc.

[X] SURFACE SOIL [ ] SEDIMENT
[ ] SUBSURFACE SOIL [ ] LAGOON / POND
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): _ Rumer / Weichert

PROJECT NAME: **NSA Crane UXO 7**
PROTECT NUMBER: **112G01621**
YEAR **2011**

LOCATION:

SAMPLE No.	SAMPLE METHOD	DEPTH (Ft.)	DATE	TIME	CONCENTRATION (L)LOW (H)HIGH	(G) GRAB (C) COMPOSITE	TOTAL NUMBER OF CONTAINERS	ANALYSES: PAHs			MS / MSD	FD		USCS	PID READING	COMMENTS
X7-SS270-0001	HA	0-1	11/09	1000	L	G	3	3			X					
X7-SS270-0102	HA	1-2	11/09	1000	L	G	1	1				X				FD110911-01
X7-SS271-0001	HA	0-1	11/09	1010	L	G	1	1								
X7-SS271-0102	HA	1-2	11/09	1010	L	G	1	1								
X7-SS272-0001	HA	0-1	11/09	1015	L	G	1	1								
X7-SS272-0102	HA	1-2	11/09	1015	L	G	1	1								
X7-SS273-0001	HA	0-1	11/09	1025	L	G	1	1								
X7-SS273-0102	HA	1-2	11/09	1025	L	G	3	3			X					

REMARKS:

LABORATORY:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[X] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Southernmost Area of Northern Zone)**

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs)										GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
				0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	4-5	SHIPPED				
X7-SB038	DPT	9/08/12	1330	--	--	--	--	x		x		--	--	G	2	x	Step Down
X7-SB039	DPT	9/08/12	1340	--	--	--	--	x	x	x		--	--	G	2	x	Step Down
X7-SB310	DPT	9/08/12	1335	--	--	--	--	--	--	x		x	x	G	2	x	Step Down
X7-SB312	DPT	9/08/12	1405	--	--	--	--	x		x		--	--	G	2	x	Step Down
X7-SB313	DPT	9/08/12	1410	--	--	--	--	--	--	x		x		G	2	x	Step Down
X7-SB371	DPT	9/08/12	1350	--	--	x	x	x		--	--	--	--	G	2	x	
X7-SB578	DPT	9/08/12	1400	x		x		x		x		x		G	4	x	
X7-SB579	DPT	9/08/12	1425	x		x		x		x		x		G	4	x	
X7-SB580	DPT	9/08/12	1415	x		x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

0-6"- Dk Brn topsoil/organics

6"-5'- Brn silty sandy clay

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: NSA Crane - UXO 7 (Central Area of Northern Zone)

PROJECT NUMBER: 112G01621

YEAR: 2012

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	4-5	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB044	DPT	9/07/12	1540	--	--	x		x		--	--	--	--	G	2	x	
X7-SB045	DPT	9/07/12	1625	--	--	x		x		x		--	--	G	2	x	
X7-SB046	DPT	9/08/12	0900	--	--	x		x		x		--	--	G	2	x	
X7-SB181	DPT	9/08/12	1025	--	--	x		x		x		--	--	G	2	x	
X7-SB291	DPT	9/07/12	1615	--	--	--	--	--	--	x		x		G	2	x	
X7-SB295	DPT	9/08/12	0845	--	--	--	--	--	--	x	x	x		G	2	x	
X7-SB296	DPT	9/08/12	0835	--	--	--	--	--	--	x		x		G	2	x	
X7-SB297	DPT	9/08/12	1035	--	--	--	--	--	--	x		x		G	2	x	
X7-SB298	DPT	9/09/12	0915	--	--	--	--	x		x		x	x	G	2	x	
X7-SB300	DPT	9/08/12	1040	--	--	--	--	x		x		--	--	G	2	x	
X7-SB301	DPT	9/08/12	1020	--	--	--	--	--	--	x		x		G	2	x	
X7-SB303	DPT	9/08/12	1010	--	--	--	--	x		x		--	--	G	2	x	
X7-SB349	DPT	9/08/12	0840	--	--	--	--	x		x		--	--	G	2	x	
X7-SB351	DPT	9/07/12	1610	--	--	--	--	x		x	x	--	--	G	2	x	
X7-SB358	DPT	9/08/12	1045	--	--	--	--	x		x		--	--	G	2	x	
X7-SB360	DPT	9/08/12	1050	--	--	--	--	x		x		--	--	G	2	x	Bullet in 3-4 foot interval
X7-SB361	DPT	9/08/12	1055	--	--	--	--	x		x		--	--	G	2	x	
X7-SB365	DPT	9/08/12	0950	--	--	--	--	x		x		--	--	G	2	x	
X7-SB368	DPT	9/09/12	1400	--	--	--	--	x	x	x		--	--	G	2	x	
X7-SB369	DPT	9/08/12	0850	--	--	--	--	x		x		--	--	G	2	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

0-6" Dk brn topsoil.

6"-6'- Brn silty clay some sand

6'-8'- Lt Brn silty sandy clay some sandstone fragments.

Laboratory: GEL Laboratories, LLC

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
Lead Step Downs

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	3-4	SHIPPED	4-5	SHIPPED	5-6	SHIPPED	6-7	SHIPPED	7-8	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB045	DPT	9/08/12	0955	--	--	x		x		--	--	--	--	G	2	x	
X7-SB046	DPT	9/10/12	1500	--	--	x		x		--	--	--	--	G	2	x	
X7-SB398	DPT	9/08/12	1005	--	--	x		x		--	--	--	--	G	2	x	
X7-SB582	DPT	9/10/12	1340	--	--	x		x		--	--	--	--	G	2	x	
X7-SB583	DPT	9/10/12	1345	--	--	x		x		--	--	--	--	G	2	x	
X7-SB551	DPT	9/10/12	1405	--	--	x		x		--	--	--	--	G	2	x	
X7-SB552	DPT	9/10/12	1410	--	--	x		x		--	--	--	--	G	2	x	
X7-SB565	DPT	9/10/12	1425	--	--	x		x		--	--	--	--	G	2	x	
X7-SB351	DPT	9/10/12	1430	--	--	x		x		--	--	--	--	G	2	x	
X7-SB395	DPT	9/10/12	1400	--	--	--	--	x	--	x	--	--	--	G	2	x	
X7-SB296	DPT	9/10/12	1440	--	--	--	--	x	--	x	--	--	--	G	2	x	
X7-SB396	DPT	9/10/12	1450	--	--	x		x		--	--	--	--	G	2	x	
X7-SB298	DPT	9/10/12	1510	--	--	x		x		--	--	--	--	G	2	x	
X7-SB300	DPT	9/10/12	1515	--	--	x		x		--	--	--	--	G	2	x	
X7-SB556	DPT	9/10/12	1525	--	--	x		x		x	--	x	--	G	2	x	
X7-SB557	DPT	9/10/12	1535	--	--	x		x		--	--	--	--	G	2	x	
X7-SB558	DPT	9/10/12	1540	--	--	x		x	x	x		x	--	G	2	x	
X7-SB561	DPT	9/10/12	1545	--	--	x		x		--	--	--	--	G	2	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

Lead Step Downs

COC No(s).:

Laboratory: GEL Laboratories, LLC

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Northernmost Area of Northern Zone)**

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs)								GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
				0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED				
X7-SB055	DPT	9/8/12	1555	--	--	--	--	x		x		G	2		
X7-SB174	DPT	9/8/12	1535	--	--	--	--	x		x		G	2		
X7-SB190	DPT	9/8/12	1500	--	--	--	--	x		x		G	2		
X7-SB274	DPT	9/8/12	1540	--	--	--	--	x		x		G	2		
X7-SB275	DPT	9/8/12	1520	--	--	--	--	x		x		G	2		
X7-SB277	DPT	9/8/12	1515	--	--	--	--	x		x		G	2		
X7-SB278	DPT	9/8/12	1525	--	--	--	--	x		x		G	2		
X7-SB283	DPT	9/8/12	1550	--	--	--	--	x		x		G	2		
X7-SB285	DPT	9/8/12	1505	--	--	x		x		--	--	G	2		
X7-SB342	DPT	9/8/12	1510	--	--	x		x		--	--	G	2		

SOIL DESCRIPTIONS / OBSERVATIONS:

0-6"- Dk brn topsoil.

6"-6'- Brn sitly sandy clay. Some sandstone frags.

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
Lead Step Downs

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	3-4	SHIPPED	4-5	SHIPPED	5-6	SHIPPED	6-7	SHIPPED	7-8	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB351	DPT	9/10/12	1430	--	--	--	--	x	x	x	--	x	--	G	2	x	
X7-SB358	DPT	9/10/12	1610	--	--	--	--	x	x	x	--	x	--	G	2	x	
X7-SB556	DPT	9/11/12	1315	--	--	--	--	--	--	x	--	x	--	G	2	x	
X7-SB566	DPT	9/11/12	0920	--	--	x		x		--	--	--	--	G	2	x	
X7-SB592	DPT	9/10/12	1615	--	--	--	--	x	x	x	--	x	--	G	3	x	
X7-SB603	DPT	9/11/12	0840	--	--	x		x		--	--	--	--	G	2	x	
X7-SB611	DPT	9/11/12	0905	--	--	x		x		--	--	--	--	G	2	x	
X7-SB617	DPT	9/11/12	0905	--	--	x		x		--	--	--	--	G	2	x	
X7-SB632	DPT	10/3/12	0905	--	--	x		x		--	--	--	--	G	2	x	
X7-SB635	DPT	10/3/12	0915	--	--	x		x		--	--	--	--	G	2	x	
X7-SB624	DPT	10/3/12	1000	--	--	x		x		x		x		G	2	x	Bullet at 5.5'
X7-SB625	DPT	10/3/12	0950	--	--	x		x		x		x		G	2	x	
X7-SB629	DPT	10/6/12	1115	--	--	x		x		--	--	--	--	G	2	x	
X7-SB637	DPT	10/6/12	1100	--	--	x		x		--	--	--	--	G	2	x	
X7-SB638	DPT	10/6/12	1110	--	--	x	x	x		--	--	--	--	G	2	x	
X7-SB657	DPT	10/6/12	1125	--	--	x		x		--	--	--	--	G	2	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

Lead Step Downs

Laboratory: GEL Laboratories, LLC

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs)												GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
				2-3	SHIPPED	3-4	SHIPPED	4-5	SHIPPED	5-6	SHIPPED	6-7	SHIPPED	7-8	SHIPPED				
X7-SB395	DPT	9/08/12	0825	--	--	x		x	x	--	--	--	--	--	--	G	2	x	
X7-SB398	DPT	9/07/12	1555	x		x		--	--	--	--	--	--	--	--	G	2	x	
X7-SB401	DPT	9/07/12	1510	x		x		--	--	--	--	--	--	--	--	G	2	x	
X7-SB409	DPT	9/07/12	1530	--	--	--	--	x		x		--	--	--	--	G	2	x	
X7-SB417	DPT	9/08/12	0935	--	--	--	--	--	--	--	--	x		x		G	2	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

COC No(s).:

Laboratory: GEL Laboratories, LLC

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Northernmost Area of Northern Zone)**

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB567	DPT	9/09/12	1000	x		x		x		x		G	4		
X7-SB568	DPT	9/09/12	0950	x		x	x	x		x		G	4		
X7-SB569	DPT	9/09/12	0945	x		x	x	x		x		G	4		
X7-SB570	DPT	9/09/12	0935	x		x		x		x		G	4		
X7-SB571	DPT	9/09/12	0940	x		x		x		x		G	4		
X7-SB572	DPT	9/09/12	0930	x		x		x		x		G	4		
X7-SB573	DPT	9/08/12	1455	x		x		x		x		G	4		
X7-SB574	DPT	9/08/12	1445	x		x		x		x		G	4		
X7-SB575	DPT	9/09/12	0915	x		x		x		x		G	4		
X7-SB576	DPT	9/09/12	0930	x		x		x		x		G	4		
X7-SB577	DPT	9/09/12	0910	x	x	x		x		x		G	4		
X7-SB607	DPT	9/10/12	1710	x		x		x		x		G	4		Step outs
X7-SB608	DPT	9/10/12	1705	x	x	x		x		x		G	4		Step outs
X7-SB609	DPT	9/10/12	1700	x		x		x		x		G	4		Step outs

SOIL DESCRIPTIONS / OBSERVATIONS:

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB581	DPT	9/09/12	0810	x		x		x		x		G	4	x	
X7-SB582	DPT	9/09/12	0815	x		x		x		x		G	4	x	
X7-SB583	DPT	9/09/12	0820	x		x		x		x		G	4	x	
X7-SB584	DPT	9/10/12	0900	x	x	x		x		x		G	4	x	
X7-SB585	DPT	9/09/12	0830	x		x		x		x		G	4	x	
X7-SB586	DPT	9/10/12	1645	x		x	x	x		x		G	4	x	
X7-SB587	DPT	9/10/12	1650	x	x	x		x		x		G	4	x	
X7-SB588	DPT	9/10/12	1635	x		x		x		x		G	4	x	
X7-SB589	DPT	9/10/12	1630	x		x		x		x		G	4	x	
X7-SB590	DPT	9/10/12	1625	x		x		x		x		G	4	x	
X7-SB591	DPT	9/10/12	1620	x		x		x		x		G	4	x	
X7-SB592	DPT	9/10/12	1615	x		x		x		x		G	4	x	Bullet 3-4.
X7-SB593	DPT	9/10/12	1605	x		x		x		x	x	G	4	x	
X7-SB594	DPT	9/10/12	1610	x		x		x		x		G	4	x	
X7-SB595	DPT	9/10/12	1555	x	x	x		x		x		G	4	x	
X7-SB596	DPT	9/10/12	1600	x		x		x		x		G	4	x	
X7-SB597	DPT	9/10/12	1550	x		x		x		x		G	4	x	
X7-SB598	DPT	9/10/12	0910	x		x		x		x		G	4	x	
X7-SB599	DPT	9/10/12	0905	x		x		x		x		G	4	x	
X7-SB600	DPT	9/10/12	0915	x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB601	DPT	9/10/12	0930	x		x		x		x		G	4	x	
X7-SB602	DPT	9/10/12	1330	x		x		x		x		G	4	x	
X7-SB603	DPT	9/10/12	1335	x		x		x		x		G	4	x	
X7-SB604	DPT	9/10/12	1325	x		x		x		x		G	4	x	
X7-SB605	DPT	9/10/12	0920	x		x		x		x		G	4	x	
X7-SB606	DPT	9/10/12	0925	x		x		x		x		G	4	x	
X7-SB610	DPT	9/11/12	0915	x		x		x		x		G	4	x	
X7-SB611	DPT	9/11/12	0905	x		x		x	x	x		G	4	x	Bullet 2.5-3.0'
X7-SB612	DPT	9/11/12	0900	x		x		x		x		G	4	x	
X7-SB613	DPT	9/11/12	0855	x		x		x		x		G	4	x	
X7-SB614	DPT	9/11/12	0850	x		x		x		x		G	4	x	
X7-SB615	DPT	9/11/12	0930	x		x		x		x	x	G	4	x	Bullet 3-4.
X7-SB616	DPT	9/11/12	1235	x		x		x		x		G	4	x	
X7-SB617	DPT	9/11/12	1250	x		x		x		x		G	4	x	
X7-SB618	DPT	9/11/12	1440	x		x		x		x		G	4	x	
X7-SB619	DPT	9/11/12	1420	x		x		x		x		G	4	x	
X7-SB620	DPT	9/11/12	1430	x		x		x	x	x		G	4	x	
X7-SB621	DPT	9/11/12	1445	x		x	x	x		x		G	4	x	
X7-SB622	DPT	9/11/12	1455	x		x		x		x		G	4	x	
X7-SB623	DPT	9/11/12	1500	x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB624	DPT	9/11/12	1635	x		x		x		x		G	4	x	
X7-SB625	DPT	9/11/12	1610	x		x		x		x		G	4	x	
X7-SB626	DPT	9/11/12	1620	x		x		x		x		G	4	x	
X7-SB627	DPT	9/11/12	1630	x		x		x		x		G	4	x	Copper jacket 3'
X7-SB628	DPT	9/11/12	1640	x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB624	DPT	9/11/12	1635	x	x	x		x		x		G	4	x	
X7-SB625	DPT	9/11/12	1610	x		x		x		x		G	4	x	
X7-SB626	DPT	9/11/12	1620	x	x	x		x		x		G	4	x	
X7-SB627	DPT	9/11/12	1630	x		x	x	x		x		G	4	x	Copper jacket 3'
X7-SB628	DPT	9/11/12	1640	x		x		x		x		G	4	x	
X7-SB629	DPT	10/3/12	0945	x		x		x		x		G	4	x	Copper jacket at .5'
X7-SB630	DPT	10/3/12	1020	x		x		x		x		G	4	x	
X7-SB631	DPT	10/3/12	0850	x		x		x		x		G	4	x	
X7-SB632	DPT	10/3/12	0905	x		x		x		x		G	4	x	2 bullets and a copper jacket 3-4'. Copper jacket 5-6'
X7-SB633	DPT	10/3/12	0855	x		x		x		x		G	4	x	Bullet 0-1'
X7-SB634	DPT	10/3/12	0910	x		x		x		x		G	4	x	
X7-SB635	DPT	10/3/12	095	x		x		x		x		G	4	x	Copper Jacket 1.5', 2.5', and 4.5'
X7-SB636	DPT	10/3/12	0940	x		x		x		x		G	4	x	Copper Jacket 1.5'
X7-SB637	DPT	10/3/12	0930	x		x		x		x		G	4	x	
X7-SB638	DPT	10/3/12	1010	x		x		x		x		G	4	x	
X7-SB639	DPT	10/3/12	1015	x		x		x		x		G	4	x	Bullet 3-4'. Pink sandstone at 4'
X7-SB640	DPT	10/3/12	1025	x		x		x		x		G	4	x	
X7-SB641	DPT	10/3/12	1030	x		x		x		x		G	4	x	
X7-SB642	DPT	10/3/12	1035	x		x		x		x		G	4	x	
X7-SB643	DPT	10/3/12	1040	x	x	x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB644	DPT	10/3/12	1045	x		x		x		x		G	4	x	
X7-SB645	DPT	10/3/12	1055	x		x		x		x		G	4	x	
X7-SB646	DPT	10/3/12	1005	x		x	x	x		x		G	4	x	
X7-SB647	DPT	10/3/12	1105	x		x		x		x		G	4	x	
X7-SB648	DPT	10/3/12	1245	x		x		x		x		G	4	x	
X7-SB649	DPT	10/3/12	1250	x		x		x		x		G	4	x	
X7-SB650	DPT	10/3/12	1255	x		x		x		x		G	4	x	
X7-SB651	DPT	10/3/12	1015	x		x	x	x		x		G	4	x	
X7-SB652	DPT	10/3/12	1305	x	x	x		x		x		G	4	x	
X7-SB653	DPT	10/3/12	1310	x		x		x		x		G	4	x	
X7-SB654	DPT	10/3/12	1315	x		x		x		x		G	4	x	
X7-SB655	DPT	10/3/12	1330	x		x		x		x		G	4	x	Copper jacket at 1.0'
X7-SB656	DPT	10/3/12	1040	x	x	x	x	x		x		G	4	x	
X7-SB657	DPT	10/3/12	1350	x		x		x		x		G	4	x	
X7-SB658	DPT	10/3/12	1400	x		x		x		x		G	4	x	
X7-SB659	DPT	10/3/12	1050	x	x	x		x		x		G	4	x	
X7-SB660	DPT	10/3/12	1415	x		x		x		x		G	4	x	
X7-SB661	DPT	10/3/12	1100	x	x	x		x		x		G	4	x	
X7-SB662	DPT	10/3/12	1425	x	x	x		x		x		G	4	x	
X7-SB663	DPT	10/3/12	1430	x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB664	DPT	10/4/12	0830	x		x		x		x		G	4	x	
X7-SB665	DPT	10/4/12	0840	x		x		x		x		G	4	x	
X7-SB666	DPT	10/4/12	0845	x		x		x		x		G	4	x	
X7-SB667	DPT	10/4/12	0850	x		x		x		x		G	4	x	
X7-SB668	DPT	10/4/12	0855	x	x	x	x	x		x		G	4	x	
X7-SB669	DPT	10/4/12	0900	x		x		x		x		G	4	x	
X7-SB670	DPT	10/6/12	0830	x		x		x		x		G	4	x	
X7-SB671	DPT	10/6/12	0840	x		x		x		x		G	4	x	
X7-SB672	DPT	10/6/12	0845	x		x		x		x		G	4	x	
X7-SB673	DPT	10/6/12	0850	x		x		x		x		G	4	x	
X7-SB674	DPT	10/6/12	0900	x		x		x		x		G	4	x	
X7-SB675	DPT	10/6/12	0905	x		x		x		x		G	4	x	
X7-SB676	DPT	10/6/12	0910	x		x		x		x		G	4	x	
X7-SB677	DPT	10/6/12	0915	x		x		x		x		G	4	x	
X7-SB678	DPT	10/6/12	0925	x		x		x		x		G	4	x	
X7-SB679	DPT	10/6/12	0930	x		x		x		x		G	4	x	
X7-SB680	DPT	10/6/12	0940	x	x	x	x	x		x		G	4	x	
X7-SB681	DPT	10/6/12	0950	x	x	x		x		x		G	4	x	
X7-SB682	DPT	10/6/12	1000	x	x	x		x		x		G	4	x	
X7-SB683	DPT	10/6/12	1010	x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[x] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (Central Area of Northern Zone)**
STEP OUTS

PROJECT NUMBER: **112G01621** YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-3	SHIPPED	3-4	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	Lead	COMMENTS
X7-SB684	DPT	10/4/12	1020	x		x		x		x		G	4	x	
X7-SB685	DPT	10/4/12	1030	x		x		x		x		G	4	x	
X7-SB686	DPT	10/4/12	1040	x		x		x		x		G	4	x	
X7-SB687	DPT	10/4/12	1050	x	x	x		x		x		G	4	x	
X7-SB688	DPT	10/8/12	1055	x		x		x		x		G	4	x	
X7-SB689	DPT	10/8/12	1100	x		x		x		x		G	4	x	
X7-SB690	DPT	10/8/12	1120	x		x		x		x		G	4	x	
X7-SB691	DPT	10/8/12	1150	x		x		x	x	x		G	4	x	
X7-SB692	DPT	10/8/12	1205	x		x		x		x		G	4	x	
X7-SB693	DPT	10/8/12	1235	x		x		x		x		G	4	x	
X7-SB694	DPT	10/8/12	1240	x	x	x		x		x		G	4	x	
X7-SB695	DPT	10/8/12	1245	x		x		x		x		G	4	x	
X7-SB696	DPT	10/8/12	1300	x		x		x	x	x		G	4	x	
X7-SB697	DPT	10/8/12	1310	x		x		x		x		G	4	x	
X7-SB698	DPT	10/8/12	1315	x		x		x		x		G	4	x	
X7-SB699	DPT	10/8/12	1320	x		x		x		x		G	4	x	
X7-SB700	DPT	10/8/12	1325	x		x		x		x		G	4	x	
X7-SB701	DPT	10/8/12	1330	x		x		x		x		G	4	x	Bullet in jacket at 1.0'
X7-SB702	DPT	10/8/12	1340	x		x		x		x		G	4	x	
X7-SB703	DPT	10/8/12	1345	x		x		x		x		G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

LEAD STEP OUTS

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[X] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (East Trap Range)**

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-4	SHIPPED	4-6	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	PAHs	COMMENTS
X7-SB075	DPT	9/06/12	0925	---	---	---	---	x	x	x	x	G	2		
X7-SB242	DPT	9/06/12	0935	---	---	---	---	x	x	x	x	G	2		
X7-SB243	DPT	9/06/12	1035	---	---	---	---	x	x	x	x	G	2		Skeet pellets to 1.5'
X7-SB247	DPT	9/06/12	0915	---	---	---	---	x	x	x	x	G	2		
X7-SB254	DPT	9/06/12	1010	---	---	---	---	x	x	x	x	G	2		
X7-SB255	DPT	9/06/12	1025	---	---	---	---	x	x	x	x	G	2		
X7-SB256	DPT	9/06/12	1055	---	---	---	---	x	x	x	x	G	2		
X7-SB261	DPT	9/06/12	0905	---	---	---	---	x	x	x	x	G	2		
X7-SB491	DPT	9/06/12	0945	x	x	x	x	x	x	x	x	G	4	x	
X7-SB492	DPT	9/06/12	0950	x	x	x	x	x	x	x	x	G	4	x	
X7-SB493	DPT	9/06/12	1015	x	x	x	x	x	x	x	x	G	4	x	
X7-SB494	DPT	9/06/12	1105	x	x	x	x	x	x	x	x	G	4	x	
X7-SB497	DPT	10/3/12	1500	x	x	x	x	x	x	x	x	G	4	x	
X7-SB498	DPT	9/06/12	1155	x	x	x	x	x	x	x	x	G	4	x	
X7-SB502	DPT	9/06/12	0840	x	x	x	x	x	x	x	x	G	4	x	
X7-SB503	DPT	9/06/12	1115	x	x	x	x	x	x	x	x	G	4	x	
X7-SB504	DPT	10/3/12	1530	x	x	x	x	x	x	x	x	G	4	x	
X7-SB505	DPT	9/06/12	1145	x	x	x	x	x	x	x	x	G	4	x	
X7-SB506	DPT	10/3/12	1515	x	x	x	x	x	x	x	x	G	4	x	
X7-SB507	DPT	9/06/12	1205	x	x	x	x	x	x	x	x	G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

0-6"- Dk BRN topsoil, some organics.

6"-6'- BRN sitly clay some gray mottle.

Laboratory: GEL Laboratories, LLC

COC No(s).:

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[X] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (West Trap Range)**

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-4	SHIPPED	4-6	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	PAHs	COMMENTS
X7-SB116	DPT	9/07/12	1245	---	---	---	---	x	x	x	x	G	2	x	
X7-SB121	DPT	9/07/12	0920	---	---	---	---	x	x	x	x	G	2	x	
X7-SB123	DPT	9/07/12	1225	---	---	---	---	x	x	x	x	G	2	x	gravel 4-5'
X7-SB203	DPT	9/07/12	1235	---	---	---	---	x	x	x	x	G	2	x	gravel 4.5-5.5'
X7-SB227	DPT	9/07/12	0930	---	---	---	---	x	x	x	x	G	2	x	
X7-SB439	DPT	9/07/12	1350	x	x	x	x	x	x	x	x	G	4	x	
X7-SB441	DPT	10/3/12	1635	x	x	x	x	x	x	x	x	G	4	x	FD100312-06=441-0204
X7-SB442	DPT	10/3/12	1640	x	x	x	x	x	x	x	x	G	4	x	FD100312-07=442-0001/ FD100312-08=442-0102
X7-SB443	DPT	10/3/12	1645	x	x	x	x	x	x	x	x	G	4	x	
X7-SB445	DPT	9/07/12	1305	x	x	x	x	x	x	x	x	G	4	x	gravel 5-6'
X7-SB446	DPT	9/07/12	1255	x	x	x	x	x	x	x	x	G	4	x	FD090712-07
X7-SB447	DPT	9/07/12	1325	x	x	x	x	x	x	x	x	G	4	x	
X7-SB448	DPT	9/07/12	1330	x	x	x	x	x	x	x	x	G	4	x	
X7-SB449	DPT	9/07/12	1340	x	x	x	x	x	x	x	x	G	4	x	
X7-SB451	DPT	9/06/12	1555	x	x	x	x	x	x	x	x	G	4	x	
X7-SB453	DPT	9/06/12	1605	x	x	x	x	x	x	x	x	G	4	x	
X7-SB455	DPT	9/06/12	1615	x	x	x	x	x	x	x	x	G	4	x	Sandstone seem at .5'
X7-SB457	DPT	9/06/12	1625	x	x	x	x	x	x	x	x	G	4	x	
X7-SB459	DPT	9/07/12	0910	x	x	x	x	x	x	x	x	G	4	x	gravel from 3.5-4.5'
X7-SB460	DPT	9/07/12	0810	x	x	x	x	x	x	x	x	G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

COC No(s).:

Laboratory: GEL Laboratories, LLC

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[X] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (West Trap Range)**

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-4	SHIPPED	4-6	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	PAHs	COMMENTS
X7-SB462	DPT	9/07/12	0855	x	x	x	x	x	x	x	x	G	4	x	MS/MSD on 0-1
X7-SB463	DPT	9/07/12	0850	x	x	x	x	x	x	x	x	G	4	x	skeet from 0-1
X7-SB464	DPT	9/07/12	0840	x	x	x	x	x	x	x	x	G	4	x	
X7-SB465	DPT	9/07/12	0845	x	x	x	x	x	x	x	x	G	4	x	
X7-SB466	DPT	9/07/12	0815	x	x	x	x	x	x	x	x	G	4	x	FD090712-01 on 1-2' interval
X7-SB469	DPT	10/3/12	1625	x	x	x	x	x	x	x	x	G	4	x	
X7-SB470	DPT	10/3/12	1620	x	x	x	x	x	x	x	x	G	4	x	
X7-SB471	DPT	9/07/12	0835	x	x	x	x	x	x	x	x	G	4	x	FD090712-02 on 0-1. FD090712-04 on 2-4. FD090712-05 on 4-6. MS/MSD on 4-6
X7-SB472	DPT	10/3/12	1615	x	x	x	x	x	x	x	x	G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

COC No(s).:

Laboratory: GEL Laboratories, LLC

MULTIPLE SAMPLE LOG SHEET

Tetra Tech, Inc.

[X] SURFACE SOIL
[X] SUBSURFACE SOIL
[ ] OTHER _____

[ ] SEDIMENT
[ ] LAGOON / POND

SIGNATURE(S): _____

SAMPLER (S): ___ Kevin Losekamp

PROJECT NAME: **NSA Crane - UXO 7 (East Trap Range)**

PROJECT NUMBER: **112G01621**

YEAR: **2012**

SAMPLE LOCATION	SAMPLE METHOD	DATE	TIME	SAMPLE DEPTH (ft. bgs) 0-1	SHIPPED	1-2	SHIPPED	2-4	SHIPPED	4-6	SHIPPED	GRAB (G) or COMPOSITE (C)	TOTAL NUMBER OF CONTAINERS	PAHs	COMMENTS
X7-SB510	DPT	9/06/12	0845	x	x	x	x	x	x	x	x	G	4	x	
X7-SB511	DPT	9/06/12	1120	x	x	x	x	x	x	x	x	G	4	x	
X7-SB513	DPT	10/3/12	1520	x	x	x	x	x	x	x	x	G	4	x	
X7-SB518	DPT	9/06/12	0855	x	x	x	x	x	x	x	x	G	4	x	
X7-SB519	DPT	9/06/12	1045	x	x	x	x	x	x	x	x	G	4	x	
X7-SB521	DPT	9/06/12	1130	x	x	x	x	x	x	x	x	G	4	x	
X7-SB522	DPT	9/06/12	1135	x	x	x	x	x	x	x	x	G	4	x	
X7-SB525	DPT	9/06/12	1355	x	x	x	x	x	x	x	x	G	4	x	
X7-SB526	DPT	9/06/12	1400	x	x	x	x	x	x	x	x	G	4	x	
X7-SB527	DPT	9/06/12	1410	x	x	x	x	x	x	x	x	G	4	x	
X7-SB528	DPT	9/06/12	1420	x	x	x	x	x	x	x	x	G	4	x	
X7-SB529	DPT	9/06/12	1430	x	x	x	x	x	x	x	x	G	4	x	
X7-SB530	DPT	9/06/12	1440	x	x	x	x	x	x	x	x	G	4	x	
X7-SB531	DPT	9/06/12	1450	x	x	x	x	x	x	x	x	G	4	x	
X7-SB533	DPT	10/3/12	1540	x	x	x	x	x	x	x	x	G	4	x	
X7-SB535	DPT	9/06/12	1535	x	x	x	x	x	x	x	x	G	4	x	
X7-SB536	DPT	9/06/12	1510	x	x	x	x	x	x	x	x	G	4	x	
X7-SB540	DPT	10/3/12	1600	x	x	x	x	x	x	x	x	G	4	x	
X7-SB541	DPT	9/06/12	1525	x	x	x	x	x	x	x	x	G	4	x	
X7-SB542	DPT	9/06/12	1520	x	x	x	x	x	x	x	x	G	4	x	
X7-SB546	DPT	10/3/12	1545	x	x	x	x	x	x	x	x	G	4	x	

SOIL DESCRIPTIONS / OBSERVATIONS:

0-6"- Dk BRN topsoil, some organics.

6"-6'- BRN sitly clay some gray mottle.

COC No(s).:

Laboratory: GEL Laboratories, LLC

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
Central Area												
X7-SS274-0001	0.0	01	11/8/2011	1550	11/9/2011	Pb	93,94,95	736	750	718	10	734.67
X7-SS274-0102	01	02	11/8/2011	1550	11/9/2011	Pb	154,155,156	507	398	395	10	433.33
X7-SS275-0001	0.0	01	11/8/2011	1600	11/9/2011	Pb	96,97,98	452	443	458	10	451.00
X7-SS275-0102	01	02	11/8/2011	1600	11/9/2011	Pb	157,158,159	710	629	686	10	675.00
X7-SS276-0001	0.0	01	11/8/2011	1610	11/9/2011	Pb	99,100,101	126	127	152	10	135.00
X7-SS276-0102	01	02	11/8/2011	1610	11/9/2011	Pb	160,161,162	89	86	108	10	94.33
X7-SS277-0001	0.0	01	11/8/2011	1615	11/9/2011	Pb	102,103,104	433	408	409	10	416.67
X7-SS277-0102	01	02	11/8/2011	1615	11/9/2011	Pb	163,164,165	318	354	355	10	342.33
X7-SS278-0001	0.0	01	11/8/2011	1630	11/9/2011	Pb	105,106,107	471	481	569	10	507.00
X7-SS278-0102	01	02	11/8/2011	1630	11/9/2011	Pb	166,169,170	304	398	324	10	342.00
X7-SS279-0001	0.0	01	11/8/2011	1630	11/9/2011	Pb	108,110,111	411	462	463	10	445.33
X7-SS279-0102	01	02	11/8/2011	1630	11/9/2011	Pb	171,172,173	426	404	399	10	409.67
X7-SB279-0203	02	03	11/12/2011	1005	11/13/2011	Pb	6,7,8	ND	31	23	10	19.67
X7-SS280-0001	0.0	01	11/8/2011	1510	11/9/2011	Pb	112,113,114	640	629	714	10	661.00
X7-SS280-0102	01	02	11/8/2011	1510	11/9/2011	Pb	174,175,176	119	96	93	10	102.67
X7-SS281-0001	0.0	01	11/8/2011	1520	11/9/2011	Pb	115,116,117	644	693	671	10	669.33
X7-SS281-0102	01	02	11/8/2011	1520	11/9/2011	Pb	177,178,179	114	126	62	10	100.67
X7-SS282-0001	0.0	01	11/8/2011	1525	11/9/2011	Pb	118,119,120	591	636	608	10	611.67
X7-SS282-0102	01	02	11/8/2011	1525	11/9/2011	Pb	180.181,182	341	324	322	10	329.00
X7-SB282-0203	02	03	11/12/2011	1010	11/12/2011	Pb	157,158,159	84	110	82	10	92.00
X7-SS283-0001	0.0	01	11/8/2011	1530	11/9/2011	Pb	121,122,123	524	667	561	10	584.00
X7-SS283-0001-D	0.0	01	11/8/2011	1530	11/9/2011	Pb	124,125,126	632	650	542	10	608.00
X7-SS283-0102	01	02	11/8/2011	1530	11/9/2011	Pb	183,184,185	659	535	521	10	571.67
X7-SS284-0001	0.0	01	11/8/2011	1540	11/9/2011	Pb	127,128,129	623	508	520	10	550.33
X7-SS284-0102	01	02	11/8/2011	1540	11/9/2011	Pb	186,187,188	86	90	95	10	90.33
X7-SS285-0001	0.0	01	11/8/2011	1530	11/9/2011	Pb	130,131,132	492	396	395	10	427.67
refusal at 12"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS286-0001	0.0	01	11/8/2011	1520	11/9/2011	Pb	133,134,135	185	241	182	10	202.67
refusal @ 6"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS287-0001	0.0	01	11/8/2011	1510	11/9/2011	Pb	136,137,138	70	62	67	10	66.33
refusal at 12"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS288-0001	0.0	01	11/8/2011	1610	11/9/2011	Pb	139,140,141	87	84	74	10	81.67
refusal @ 6"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS289-0001	0.0	01	11/8/2011	1555	11/9/2011	Pb	142,143,144	92	77	71	10	80.00
X7-SS289-0102	01	02	11/8/2011	1555	---	---	---	NA	NA	NA	10	NA
X7-SS290-0001	0.0	01	11/8/2011	1540	11/9/2011	Pb	145,146,147	156	146	153	10	151.67
X7-SS290-0102	01	02	11/8/2011	1540	11/9/2011	Pb	189,190,191	23	27	27	10	25.67
Central Area (inner rings)												
X7-SS291-0001	0.0	01	11/8/2011	0845	11/8/2011	Pb	60,61,62	1414	1382	1122	10	1306.00
X7-SS291-0102	01	02	11/8/2011	0845	11/9/2011	Pb	5,6,7	435	387	369	10	397.00
X7-SB291-0203	02	03	11/11/2011	1050	11/12/2011	Pb	5,6,7	257	317	337	10	303.67

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SS292-0001	0.0	01	11/8/2011	0900	11/8/2011	Pb	63,64,65	325	209	198	10	244.00
X7-SS292-0102	01	02	11/8/2011	0900	11/9/2011	Pb	8,9,10	118	83	81	10	94.00
X7-SS293-0001	0.0	01	11/8/2011		11/8/2011	Pb	66,67,68	62	56	101	10	73.00
X7-SS293-0102	01	02	11/8/2011			Pb		NA	NA	NA	10	NA
X7-SS294-0001	0.0	01	11/8/2011	0920	11/8/2011	Pb	69,70,71	171	155	145	10	157.00
X7-SS294-0102	01	02	11/8/2011	0920	11/9/2011	Pb	11,12,13	61	51	74	10	62.00
X7-SS295-0001	0.0	01	11/8/2011	0830	11/8/2011	Pb	72,73,74	371	326	409	10	368.67
X7-SS295-0102	01	02	11/8/2011	0830	11/9/2011	Pb	14,15,16	429	482	350	10	420.33
X7-SB295-0203	02	03	11/11/2011	1100	11/12/2011	Pb	8,9,10	551	487	526	10	521.33
X7-SS296-0001	0.0	01	11/8/2011	0840	11/8/2011	Pb	57,58,59	861	894	942	10	899.00
X7-SS296-0102	01	02	11/8/2011	0840	11/9/2011	Pb	17,18,19	441	267	282	10	330.00
X7-SB296-0203	02	03	11/11/2011	1110	11/12/2011	Pb	11,12,13	258	336	316	10	303.33
X7-SS297-0001	0.0	01	11/7/2011	1540	11/8/2011	Pb	5,6,7	660	641	824	10	708.33
X7-SS297-0102	01	02	11/7/2011	1540	11/9/2011	Pb	20,21,22	381	420	394	10	398.33
X7-SB297-0203	02	03	11/11/2011	1105	11/12/2011	Pb	14,15,16	250	216	284	10	250.00
X7-SS298-0001	0.0	01	11/7/2011	1550	11/8/2011	Pb	41,42,43	333	465	366	10	388.00
X7-SS298-0102	01	02	11/7/2011	1550	11/9/2011	Pb	23,24,25	427	422	507	10	452.00
X7-SS299-0001	0.0	01	11/7/2011	1600	11/8/2011	Pb	38,39,40	375	410	317	10	367.33
X7-SS299-0102	01	02	11/7/2011	1600	11/9/2011	Pb	26,27,28	458	493	616	10	522.33
X7-SB299-0203	02	03	11/11/2011	1355	11/12/2011	Pb	17,18,19	152	98	136	10	128.67
X7-SB299-0203-D	02	03	11/11/2011	1355	11/12/2011	Pb	20,21,22	130	143	144	10	139.00
X7-SS300-0001	0.0	01	11/7/2011	1605	11/8/2011	Pb	29,30,31	262	236	246	10	248.00
X7-SS300-0102	01	02	11/7/2011	1605	11/9/2011	Pb	29,30,31	287	222	228	10	245.67
X7-SS301-0001	0.0	01	11/7/2011	1620	11/8/2011	Pb	8,9,10	167	205	155	10	175.67
X7-SS301-0102	01	02	11/7/2011	1620	11/9/2011	Pb	32,33,34	373	374	418	10	388.33
X7-SB301-0203	02	03	11/11/2011	1405	11/12/2011	Pb	23,24,25	571	474	652	10	565.67
X7-SS302-0001	0.0	01	11/7/2011	1630	11/8/2011	Pb	17,18,19	112	193	204	10	169.67
X7-SS302-0102	01	02	11/7/2011	1630	11/9/2011	Pb	35,36,37	82	81	71	10	78.00
X7-SS303-0001	0.0	01	11/7/2011	1605	11/8/2011	Pb	14,15,16	192	370	286	10	282.67
X7-SS303-0102	01	02	11/7/2011	1605	11/9/2011	Pb	38,39,40	439	529	780	10	582.67
X7-SS304-0001	0.0	01	11/7/2011	1620	11/8/2011	Pb	44,45,46	100	93	80	10	91.00
X7-SS304-0102	01	02	11/7/2011	1620	---	Pb	---	NA	NA	NA	10	NA
X7-SS305-0001	0.0	01	11/8/2011	0830	11/8/2011	Pb	75,76,77	318	338	359	10	338.33
X7-SS305-0102	01	02	11/8/2011	0830	11/9/2011	Pb	41,42,43	55	56	96	10	69.00
X7-SS306-0001	0.0	01	11/8/2011	0845	11/8/2011	Pb	78,79,80	492	678	419	10	529.67
X7-SS306-0102	01	02	11/8/2011	0845	11/9/2011	Pb	44,45,46	169	193	150	10	170.67
X7-SB306-0203	02	03	11/11/2011	1410	11/12/2011	Pb	26,27,28	54	141	60	10	85.00
X7-SS307-0001	0.0	01	11/8/2011	0855	11/8/2011	Pb	81,82,83	584	537	745	10	622.00
X7-SS307-0102	01	02	11/8/2011	0855	11/9/2011	Pb	47,48,49	46	52	41	10	46.33
X7-SS308-0001	0.0	01	11/7/2011	1545	11/8/2011	Pb	11,12,13	543	531	463	10	512.33
X7-SS308-0102	01	02	11/7/2011	1545	11/9/2011	Pb	50,51,52	242	240	278	10	253.33
X7-SB308-0203	02	03	11/11/2011	1415	11/12/2011	Pb	29,30,31	19	22	19	10	20.00
X7-SS391-0001	0.0	01	11/8/2011	0955	11/8/2011	Pb	102,103,104	135	187	163	10	161.67

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X7-SS391-0102	01	02	11/8/2011	0955	11/9/2011	Pb	74,75,76	609	696	554	10	619.67
X7-SB391-0203	02	03	11/11/2011	1145	11/12/2011	Pb	107,108,109	42	34	79	10	51.67
X7-SS392-0001	0.0	01	11/8/2011		11/8/2011	Pb	105,106.11	110	137	103	10	116.67
X7-SS392-0102	01	02	11/8/2011		---	---	---	NA	NA	NA	10	NA
X7-SS393-0001	0.0	01	11/8/2011	0930	11/8/2011	Pb	108,109,110	157	160	153	10	156.67
X7-SS393-0102	01	02	11/8/2011	0930	11/9/2011	Pb	77,78,79	255	281	313	10	283.00
X7-SB393-0203	02	03	11/11/2011	1135	11/12/2011	Pb	95,96,97	189	157	253	10	199.67
X7-SS394-0001	0.0	01	11/8/2011	0910	11/8/2011	Pb	111,112,113	122	182	149	10	151.00
X7-SS394-0102	01	02	11/8/2011	0910	11/9/2011	Pb	80,81,82	298	284	345	10	309.00
X7-SB394-0203	02	03	11/11/2011	1130	11/12/2011	Pb	98,99,100	39	32	28	10	33.00
X7-SS395-0001	0.0	01	11/8/2011	0925	11/8/2011	Pb	114,115,116	286	310	202	10	266.00
X7-SS395-0102	01	02	11/8/2011	0925	11/9/2011	Pb	83,84,85	674	560	523	10	585.67
X7-SB395-0203	02	03	11/11/2011	1125	11/12/2011	Pb	101,102,103	335	342	368	10	348.33
X7-SS396-0001	0.0	01	11/8/2011	0940	11/8/2011	Pb	117,118,119	140	164	159	10	154.33
X7-SS396-0102	01	02	11/8/2011	0940	11/9/2011	Pb	86,87,88	432	450	372	10	418.00
X7-SS396-0001-D	0.0	01	11/8/2011	0940	11/8/2011	Pb	120,121,122	138	162	138	10	146.00
X7-SB396-0203	02	03	11/11/2011	1115	11/12/2011	Pb	104,105,106	305	365	318	10	329.33
Central Area (outer rings)												
X7-SS345-0001	0.0	01	11/11/2011	1445	11/12/2011	Pb	32,33,34	578	580	543	10	567.00
X7-SS345-0102	01	02	11/11/2011	1445	11/13/2011	Pb	20,21,22	99	75	115	10	96.33
X7-SS347-0001	0.0	01	11/11/2011	1450	11/12/2011	Pb	35,36,37	577	594	605	10	592.00
X7-SS347-0102	01	02	11/11/2011	1450	11/13/2011	Pb	23,24,25	93	66	85	10	81.33
X7-SS349-0001	0.0	01	11/11/2011	1425	11/12/2011	Pb	38,39,40	148	194	189	10	177.00
X7-SS349-0102	01	02	11/11/2011	1425	11/13/2011	Pb	26,27,28	498	845	633	10	658.67
X7-SS351-0001	0.0	01	11/11/2011	1435	11/12/2011	Pb	41,42,43	184	234	252	10	223.33
X7-SS351-0102	01	02	11/11/2011	1435	11/13/2011	Pb	29,30,31	302	284	255	10	280.33
X7-SS353-0001	0.0	01	11/11/2011	1430	11/1/2011	Pb	44,45,46	112	124	119	10	118.33
X7-SS355-0001	0.0	01	11/11/2011	1505	11/12/2011	Pb	47,48,49	133	114	138	10	128.33
X7-SS355-0102	01	02	11/11/2011	1505	11/13/2011	Pb	32,33,34	85	179	81	10	115.00
X7-SS357-0001	0.0	01	11/11/2011	1515	11/12/2011	Pb	50,51,52	379	455	500	10	444.67
X7-SS357-0102	01	02	11/11/2011	1515	11/13/2011	Pb	35,36,37	54	78	79	10	70.33
X7-SS358-0001	0.0	01	11/11/2011	1525	11/12/2011	Pb	53,54,55	367	414	428	10	403.00
X7-SS358-0102	01	02	11/11/2011	1525	11/13/2011	Pb	38,39,40	484	540	467	10	497.00
X7-SS360-0001	0.0	01	11/11/2011	1540	11/12/2011	Pb	56,57,58	254	236	262	10	250.67
X7-SS360-0102	01	02	11/11/2011	1540	11/13/2011	Pb	41,42,43	366	303	313	10	327.33
X7-SS361-0001	0.0	01	11/11/2011	1540	11/12/2011	Pb	59,60,61	317	378	280	10	325.00
X7-SS361-0102	01	02	11/11/2011	1540	11/13/2011	Pb	44,45,46	321	386	241	10	316.00
X7-SS363-0001	0.0	01	11/11/2011	1520	11/12/2011	Pb	62,62,63	186	159	225	10	190.00
X7-SS363-0102	01	02	11/11/2011	1520	11/13/2011	Pb	47,48,49	ND	ND	ND	10	5.00
X7-SS365-0001	0.0	01	11/11/2011	1505	11/12/2011	Pb	65,66,67	475	433	442	10	450.00
X7-SS365-0102	01	02	11/11/2011	1505	11/13/2011	Pb	50,51,52	367	555	398	10	440.00
X7-SS368-0001	0.0	01	11/11/2011	1500	11/12/2011	Pb	68,69,70	221	167	214	10	200.67
X7-SS368-0102	01	02	11/11/2011	1500	11/13/2011	Pb	54,55,56	802	797	572	10	723.67

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X7-SS369-0001	0.0	01	11/11/2011	1455	11/12/2011	Pb	71,72,73	962	990	913	10	955.00
X7-SS369-0102	01	02	11/11/2011	1455	11/13/2011	Pb	57,58,59	458	291	319	10	356.00
X7-SS398-0001	0.0	01	11/11/2011	1420	11/12/2011	Pb	74,75,76	248	349	355	10	317.33
X7-SS398-0102	01	02	11/11/2011	1420	11/13/2011	Pb	63,64,65	462	519	521	10	500.67
X7-SS400-0001	0.0	01	11/11/2011	1120	11/12/2011	Pb	77,78.79	111	119	96	10	108.67
X7-SS401-0001	0.0	01	11/11/2011	1130	11/12/2011	Pb	80,81,82	119	186	210	10	171.67
X7-SS401-0102	01	02	11/11/2011	1130	11/13/2011	Pb	66,67,68	421	331	348	10	366.67
X7-SS402-0001	0.0	01	11/11/2011	1140	11/12/2011	Pb	83,84,85	95	126	129	10	116.67
X7-SS404-0001	0.0	01	11/11/2011	1400	11/12/2011	Pb	86,87,88	388	293	270	10	317.00
X7-SS404-0102	01	02	11/11/2011	1400	11/13/2011	Pb	69,70,71	84	87	87	10	86.00
X7-SS404-0102-D	01	02	11/11/2011	1400	11/13/2011	Pb	72,73,74	88	107	125	10	106.67
X7-SS406-0001	0.0	01	11/11/2011	1410	11/12/2011	Pb	89,90,91	66	85	97	10	82.67
X7-SS406-0001-D	0.0	01	11/11/2011	1410	11/12/2011	Pb	92,93,94	64	68	92	10	74.67
Central Area (additional samples)												
X7-SS407-0001	0.0	01	11/14/2011	1415	11/15/2011	Pb	11,12,13	99	68	69	10	78.67
X7-SS408-0001	0.0	01	11/14/2011	1420	11/15/2011	Pb	5,6,7	325	301	306	10	310.67
X7-SS408-0102	01	02	11/14/2011	1420	11/15/2011	Pb	8,9,10	30	34	23	10	29.00
X7-SB409-0304	03	04	11/14/2011	1425	11/15/2011	Pb	14,15,16	1210	1156	1223	10	1196.33
X7-SS410-0001	0.0	01	11/14/2011	1555	11/15/2011	Pb	17,18,19	ND	ND	ND	10	5.00
X7-SB411-0304	03	04	11/14/2011	1430	11/15/2011	Pb	20,21,22	47	51	56	10	51.33
X7-SS412-0001	0.0	01	11/14/2011	1435	11/15/2011	Pb	23,24,25	169	239	152	10	186.67
X7-SS412-0102	01	02	11/14/2011	1435	11/15/2011	Pb	26,27,28	22	34	31	10	29.00
X7-SB413-0304	03	04	11/14/2011	1440	11/15/2011	Pb	29,30,31	903	843	1120	10	955.33
X7-SS414-0001	0.0	01	11/14/2011	1610	11/15/2011	Pb	32,33,34	154	198	211	10	187.67
X7-SS414-0102	01	02	11/14/2011	1610	11/15/2011	Pb	35,36,37	77	121	127	10	108.33
X7-SS415-0001	0.0	01	11/14/2011	1530	11/15/2011	Pb	38,39,40	167	141	237	10	181.67
X7-SS415-0102	01	02	11/14/2011	1530	11/15/2011	Pb	41,42,43	40	38	24	10	34.00
X7-SS416-0001	0.0	01	11/14/2011	1600	11/15/2011	Pb	44,45,46	88	84	76	10	82.67
X7-SB417-0304	03	04	11/14/2011	1440	11/15/2011	Pb	47,48,49	221	208	195	10	208.00
X7-SB417-0405	04	05	11/14/2011	1440	11/15/2011	Pb	98,100,101	163	173	174	10	170.00
X7-SB417-0506	04	05	11/14/2011	1440	11/15/2011	Pb	102,103,104	744	817	793	10	784.67
X7-SS418-0001	0.0	01	11/14/2011	1605	11/15/2011	Pb	50,51,52	38	62	42	10	47.33
X7-SS420-0001	0.0	01	11/14/2011	1450	11/15/2011	Pb	53,54,55	127	113	135	10	125.00
X7-SS420-0102	01	02	11/14/2011	1450	11/15/2011	Pb	56,57,58	440	502	515	10	485.67
X7-SS420-0203	02	03	11/14/2011	1450	11/15/2011	Pb	105,106,107	74	69	92	10	78.33
X7-SS421-0001	0.0	01	11/14/2011	1505	11/15/2011	Pb	59,60,61	751	752	739	10	747.33
X7-SS421-0102	01	02	11/14/2011	1505	11/15/2011	Pb	62,63,64	ND	20	22	10	15.67
X7-SS422-0001	0.0	01	11/14/2011	1515	11/15/2011	Pb	65,66,67	422	431	451	10	434.67
X7-SS422-0102	01	02	11/14/2011	1515	11/15/2011	Pb	68,69,70	424	327	335	10	362.00
X7-SS422-0102-D	01	02	11/14/2011	1515	11/15/2011	Pb	71,72,73	330	400	390	10	373.33
X7-SS422-0203	02	03	11/14/2011	1515	11/15/2011	Pb	108,109,110	50	53	41	10	48.00

Indicates XRF result greater than field screening level of 1

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
			11/8/2011					**11/9/2011**				
	#1	0951	Std	204		#1	0931	Std	193		#1	1429
	#2		Blank	ND		#2		Blank	ND		#2	
	#3		2702	134		#3		2702	163		#3	
	#4		2781	203		#4		2781	193		#4	
	#50	1315	Blank	ND		#89	1046	Blank	ND		#111	1625
	#52		2781	176		#91		2781	188		#113	
	#54		Blank	ND		#109	1533	Std	190		#115	
	#56		2781	217		#149		2702	135		#128	1831
	#124		2702	150		#151	1716	Blank	ND		#170	
	#125		2781	210		#152		2702	127		#171	
						#153		2781	206			
						#168		Std	191			
			11/13/2011									
	#1	912	Std	192								
	#2		Blank	ND							110-misread	
	#3		2702	136								
	#4		2781	213								
	#75	1018	Blank	ND								
			2702	117								
			2781	188								

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
Northernmost Area												
X7-SS274-0001	0.0	01	11/8/2011	1550	11/9/2011	Pb	93,94,95	736	750	718	10	734.67
X7-SS274-0102	01	02	11/8/2011	1550	11/9/2011	Pb	154,155,156	507	398	395	10	433.33
X7-SS275-0001	0.0	01	11/8/2011	1600	11/9/2011	Pb	96,97,98	452	443	458	10	451.00
X7-SS275-0102	01	02	11/8/2011	1600	11/9/2011	Pb	157,158,159	710	629	686	10	675.00
X7-SS276-0001	0.0	01	11/8/2011	1610	11/9/2011	Pb	99,100,101	126	127	152	10	135.00
X7-SS276-0102	01	02	11/8/2011	1610	11/9/2011	Pb	160,161,162	89	86	108	10	94.33
X7-SS277-0001	0.0	01	11/8/2011	1615	11/9/2011	Pb	102,103,104	433	408	409	10	416.67
X7-SS277-0102	01	02	11/8/2011	1615	11/9/2011	Pb	163,164,165	318	354	355	10	342.33
X7-SS278-0001	0.0	01	11/8/2011	1630	11/9/2011	Pb	105,106,107	471	481	569	10	507.00
X7-SS278-0102	01	02	11/8/2011	1630	11/9/2011	Pb	166,169,170	304	398	324	10	342.00
X7-SS279-0001	0.0	01	11/8/2011	1630	11/9/2011	Pb	108,110,111	411	462	463	10	445.33
X7-SS279-0102	01	02	11/8/2011	1630	11/9/2011	Pb	171,172,173	426	404	399	10	409.67
X7-SB279-0203	02	03	11/12/2011	1005	11/13/2011	Pb	6,7,8	ND	31	23	10	19.67
X7-SS280-0001	0.0	01	11/8/2011	1510	11/9/2011	Pb	112,113,114	640	629	714	10	661.00
X7-SS280-0102	01	02	11/8/2011	1510	11/9/2011	Pb	174,175,176	119	96	93	10	102.67
X7-SS281-0001	0.0	01	11/8/2011	1520	11/9/2011	Pb	115,116,117	644	693	671	10	669.33
X7-SS281-0102	01	02	11/8/2011	1520	11/9/2011	Pb	177,178,179	114	126	62	10	100.67
X7-SS282-0001	0.0	01	11/8/2011	1525	11/9/2011	Pb	118,119,120	591	636	608	10	611.67
X7-SS282-0102	01	02	11/8/2011	1525	11/9/2011	Pb	180.181,182	341	324	322	10	329.00
X7-SB282-0203	02	03	11/12/2011	1010	11/12/2011	Pb	157,158,159	84	110	82	10	92.00
X7-SS283-0001	0.0	01	11/8/2011	1530	11/9/2011	Pb	121,122,123	524	667	561	10	584.00
X7-SS283-0001-D	0.0	01	11/8/2011	1530	11/9/2011	Pb	124,125,126	632	650	542	10	608.00
X7-SS283-0102	01	02	11/8/2011	1530	11/9/2011	Pb	183,184,185	659	535	521	10	571.67
X7-SS284-0001	0.0	01	11/8/2011	1540	11/9/2011	Pb	127,128,129	623	508	520	10	550.33
X7-SS284-0102	01	02	11/8/2011	1540	11/9/2011	Pb	186,187,188	86	90	95	10	90.33
X7-SS285-0001	0.0	01	11/8/2011	1530	11/9/2011	Pb	130,131,132	492	396	395	10	427.67
refusal at 12"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS286-0001	0.0	01	11/8/2011	1520	11/9/2011	Pb	133,134,135	185	241	182	10	202.67
refusal @ 6"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS287-0001	0.0	01	11/8/2011	1510	11/9/2011	Pb	136,137,138	70	62	67	10	66.33
refusal at 12"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS288-0001	0.0	01	11/8/2011	1610	11/9/2011	Pb	139,140,141	87	84	74	10	81.67
refusal @ 6"	01	02	---	---	---	---	---	NA	NA	NA	10	NA
X7-SS289-0001	0.0	01	11/8/2011	1555	11/9/2011	Pb	142,143,144	92	77	71	10	80.00
X7-SS289-0102	01	02	11/8/2011	1555	---	---	---	NA	NA	NA	10	NA
X7-SS290-0001	0.0	01	11/8/2011	1540	11/9/2011	Pb	145,146,147	156	146	153	10	151.67
X7-SS290-0102	01	02	11/8/2011	1540	11/9/2011	Pb	189,190,191	23	27	27	10	25.67
Northernmost Area (outer rings)												
X7-SS321-0001	0.0	01	11/12/2011	950	11/13/2011	Pb	8,9,10	153	175	191	10	173.00
X7-SS321-0102	01	02	11/12/2011	950	11/14/2011	Pb	5,6,7	39	38	37	10	38.00
X7-SS323-0001	0.0	01	11/12/2011	1000	11/13/2011	Pb	11,12,13	446	425	430	10	433.67

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SS323-0102	01	02	11/12/2011	1000	11/14/2011	Pb	20,21,22	55	51	42	10	49.33
X7-SS325-0001	0.0	01	11/12/2011	1015	11/13/2011	Pb	14,15,16	449	472	451	10	457.33
X7-SS325-0102	01	02	11/11/2011	1015	11/14/2011	Pb	8,9,10	36	31	38	10	35.00
X7-SS327-0001	0.0	01	11/12/2011	1030	11/12/2011	Pb	163,164,165	47	55	61	10	54.33
X7-SS327-0001-D	0.0	01	11/12/2011	1030	11/12/2011	Pb	166,167,168	63	60	75	10	66.00
X7-SS329-0001	0.0	01	11/12/2011		11/14/2011	Pb	11,12,13	89	52	58	10	66.33
X7-SS331-0001	0.0	01	11/12/2011	1035	11/12/2011	Pb	148,149,150	81	144	188	10	137.67
X7-SS331-0001-D	0.0	01	11/12/2011	1035	11/14/2011	Pb	14,15,16	209	148	214	10	190.33
X7-SS331-0102	01	02	11/12/2011	1035	11/14/2011	Pb	17,18,19	41	29	42	10	37.33
X7-SS333-0001	0.0	01	11/12/2011		11/14/2011	Pb	23,24,25	170	189	194	10	184.33
X7-SS333-0102	01	02	11/12/2011		11/14/2011	Pb	26,27,28	34	48	30	10	37.33
X7-SS336-0001	0.0	01	11/12/2011	1055	11/12/2011	Pb	151,152,153	283	294	241	10	272.67
X7-SS336-0102	01	02	11/12/2011	1055	11/14/2011	Pb	29,30,31	80	68	69	10	72.33
X7-SS337-0001	0.0	01	11/12/2011	1110	11/12/2011	Pb	154,155,156	61	60	74	10	65.00
X7-SS342-0102	01	02			11/14/2011	Pb	32,33,34	319	229	304	10	284.00
X7-SS344-0001	0.0	01	11/12/2011	1050	11/13/2011	Pb	17,18,19	140	140	151	10	143.67
X7-SS344-0102	01	02	11/12/2011	1050	11/14/2011	Pb	35,36,37	22	ND	30	10	19.00
Northernmost Area (additional samples)												
X7-SS423-0001	0.0	01	11/14/2011	1625	11/15/2011	Pb	74,75,76	299	278	319	10	298.67
X7-SS423-0102	01	02	11/14/2011	1625	11/15/2011	Pb	77,78,79	19	25	23	10	22.33
X7-SS424-0001	0.0	01	11/14/2011	1620	11/15/2011	Pb	80,81,82	207	224	206	10	212.33
X7-SS424-0102	01	02	11/14/2011	1620	11/15/2011	Pb	83,84,85	107	103	114	10	108.00
X7-SS425-0001	0.0	01	11/14/2011	1650	11/15/2011	Pb	86,87,88	168	155	200	10	174.33
X7-SS425-0102	01	02	11/14/2011	1650	11/15/2011	Pb	89,90,91	26	ND	ND	10	12.00
X7-SB426-0304	03	04	11/14/2011	1640	11/15/2011	Pb	111,112,113	25	ND	ND	10	11.67
X7-SB427-0304	03	04	11/14/2011	1645	11/15/2011	Pb	114,115,116	ND	27	21	10	17.67
X7-SB428-0304	03	04	11/14/2011	1635	11/15/2011	Pb	117,118,119	22	22	26	10	23.33
X7-SS429-0001	0.0	01	11/14/2011	1630	11/15/2011	Pb	92,93,94	120	88	112	10	106.67

Indicates XRF result greater than field screening level of 1

		11/8/2011				11/9/2011			
#1	0951	Std	204	#1	0931	Std	193	#1	1429
#2		Blank	ND	#2		Blank	ND	#2	
#3		2702	134	#3		2702	163	#3	
#4		2781	203	#4		2781	193	#4	
#50	1315	Blank	ND	#89	1046	Blank	ND	#111	1625

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
Southernmost Area (inner rings)												
X7-SS309-0001	0.0	01	11/7/2011	1405	11/8/2011	Pb	84,85,86	67	82	51	10	66.67
X7-SS309-0102	01	02	11/7/2011	1405	---	Pb	---	NA	NA	NA	10	NA
X7-SS310-0001	0.0	01	11/7/2011	1425	11/8/2011	Pb	23,24,25	437	391	396	10	408.00
X7-SS310-0102	01	02	11/7/2011	1425	11/9/2011	Pb	53,54,55	395	382	367	10	381.33
X7-SB310-0203	02	03	11/12/2011	845	11/12/2011	Pb	117,118,119	207	159	227	10	197.67
X7-SS311-0001	0.0	01	11/7/2011	1435	11/8/2011	Pb	87,88,89	95	92	88	10	91.67
X7-SS311-0102	01	02	11/7/2011	1435	---	Pb	---	NA	NA	NA	10	NA
X7-SS312-0001	0.0	01	11/7/2011	1450	11/8/2011	Pb	20,21,22	150	156	150	10	152.00
X7-SS312-0102	01	02	11/7/2011	1450	11/9/2011	Pb	56,57,58	228	229	179	10	212.00
X7-SS313-0001	0.0	01	11/7/2011	1510	11/8/2011	Pb	90,91,92	157	162	183	10	167.33
X7-SS313-0102	01	02	11/7/2011	1510	11/9/2011	Pb	59,60,61	234	200	213	10	215.67
X7-SB313-0203	02	03	11/12/2011	840	11/12/2011	Pb	120,121,122	489	587	452	10	509.33
X7-SS314-0001	0.0	01	11/7/2011	1525	11/8/2011	Pb	93,94,95	129	152	118	10	133.00
X7-SS314-0102	01	02	11/7/2011	1525	11/9/2011	Pb	62,63,64	235	169	172	10	192.00
X7-SS315-0001	0.0	01	11/7/2011	1400	11/8/2011	Pb	26,27,28	230	181	236	10	215.67
X7-SS315-0102	01	02	11/7/2011	1400	11/9/2011	Pb	65,66,67	77	58	61	10	65.33
X7-SS316-0001	0.0	01	11/7/2011	1420	11/8/2011	Pb	35,36,37	268	423	359	10	350.00
X7-SS316-0102	01	02	11/7/2011	1420	11/9/2011	Pb	68,69,70	31	39	24	10	31.33
X7-SS317-0001	0.0	01	11/7/2011	1430	11/8/2011	Pb	32,33,34	84	79	67	10	76.67
X7-SS318-0001	0.0	01	11/7/2011	1435	11/8/2011	Pb	96,97,98	105	96	82	10	94.33
X7-SS319-0001	0.0	01	11/7/2011	1450	11/8/2011	Pb	47,48,49	49	81	86	10	72.00
X7-SS320-0001	0.0	01	11/7/2011	1520	11/8/2011	Pb	99,100,101	302	308	298	10	302.67
X7-SS320-0102	01	02	11/7/2011	1520	11/9/2011	Pb	71,72,73	141	279	98	10	172.67
X7-SB320-0203	02	03	11/12/2011	830	11/12/2011	Pb	123,124,125	21	38	ND	10	21.33
Southernmost Area (outer rings)												
X7-SS371-0001	0.0	01	11/12/2011	830	11/13/2011	Pb	60,61,62	236	266	273	10	258.33
X7-SS373-0001	0.0	01	11/12/2011	845	11/12/2011	Pb	126,127,129	77	29	44	10	50.00
X7-SS376-0001	0.0	01	11/12/2011	910	11/12/2011	Pb	130,131,132	201	203	188	10	197.33
X7-SS376-0102	01	02	11/12/2011	910	11/14/2011	Pb	38,39,40	132	158	162	10	150.67
X7-SS377-0001	0.0	01	11/12/2011	915	11/12/2011	Pb	133,134,135	416	436	389	10	413.67
X7-SS377-0102	01	02	11/12/2011	915	11/14/2011	Pb	41,42,43	118	175	97	10	130.00
X7-SS379-0001	0.0	01	11/12/2011	925	11/12/2011	Pb	136,137,138	45	52	49	10	48.67
X7-SS383-0001	0.0	01	11/12/2011	900	11/12/2011	Pb	139,140,141	60	68	67	10	65.00
X7-SS385-0001	0.0	01	11/12/2011	900	11/12/2011	Pb	142,143,144	121	232	139	10	164.00
X7-SS385-0102	01	02	11/12/2011	900	11/14/2011	Pb	44,45,46	42	80		10	61.00
X7-SS387-0001	0.0	01	11/12/2011	905	11/12/2011	Pb	145,146,147	98	74	66	10	79.33
Southernmost Area (additional samples)												
X7-SB430-0304	03	04	11/15/2011	855	11/15/2011	Pb	120,121,122	ND	ND	22	10	10.67
X7-SB430-0405	04	05	11/15/2011	855	11/15/2011	Pb	123,124,125	ND	ND	ND	10	5.00
X7-SB430-0506	05	06	11/15/2011	855	11/15/2011	Pb	126,127,128	ND	ND	ND	10	5.00
X7-SB431-0304	03	04	11/15/2011	915	11/15/2011	Pb	129,130,131	49	38	51	10	46.00

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB431-0405	04	05	11/15/2011	915	11/15/2011	Pb	132,133,134	35	31	24	10	30.00
X7-SB432-0304	03	04	11/15/2011	935	11/15/2011	Pb	135,136,137	ND	27	27	10	19.67
X7-SB432-0405	04	05	11/15/2011	935	11/15/2011	Pb	138,139,140	ND	ND	ND	10	5.00
X7-SS434-0001	0.0	01	11/15/2011	835	11/15/2011	Pb	141,142,143	109	105	94	10	102.67
X7-SS434-0102	01	02	11/15/2011	835	11/15/2011	Pb	144,145,146	23	26	30	10	26.33
X7-SS434-0102-D	01	02	11/15/2011	835	11/15/2011	Pb	147,148,149	27	27	28	10	27.33

Indicates XRF result greater than field screening level of 1

11/8/2011

#2		Blank	ND
#3		2702	134
#4		2781	203
#50	1315	Blank	ND
#52		2781	176
#54		Blank	ND
#56		2781	217
#124		2702	150
#125		2781	210

11/13/2011

#1	912	Std	192
#2		Blank	ND
#3		2702	136
#4		2781	213
#75	1018	Blank	ND
		2702	117
		2781	188

11/14/2011

#1	1032	Std	192
#2		Blank	ND
#3		2702	144
#4		2781	192
#47	1141	Blank	ND
#48		2702	143
#49		2781	206
#1	1416	Std	191
#2		Blank	ND
#3		2702	136
#4		2781	192

11/9/2011

#2		Blank	ND
#3		2702	163
#4		2781	193
#89	1046	Blank	ND
#91		2781	188
#109	1533	Std	190
#149		2702	135
#151	1716	Blank	ND
#152		2702	127
#153		2781	206
#168		Std	191

#2	
#3	
#4	
#111	1625
#113	
#115	
#128	1831
#170	
#171	

110-misread

SAMPLE ID	START DEPTH (feet bgs)	END DEPTH (feet bgs)	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	#95	1607	Blank	ND								
	#96		2702	137								
	#97		2781	182								
	#99	1830	Std	191								
	#150	1919	Blank	ND								
	#151		2702	160								
	#152		2781	176								

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
CENTRAL AREA										
X7-SB044	X7-SS044-0102	9/7/2012	9/8/2012	Pb	8,9,10	271	253	238	10	254.00
	X7-SB044-0203	9/7/2012	9/8/2012	Pb	5,6,7	34	43	25	10	34.00
X7-SB045	X7-SB045-0203	9/7/2012	9/8/2012	Pb	11,12,13	246	300	212	10	252.67
	X7-SB045-0304	9/7/2012	9/8/2012	Pb	14,15,16	338	369	404	10	370.33
	X7-SB045-0405	9/8/2012	9/8/2012	Pb	165,166,167	100	84	90	10	91.33
	X7-SB045-0506	9/8/2012	9/9/2012	Pb	8,9,10	54	69	98	10	73.67
X7-SB046	X7-SB046-0203	9/8/2012	9/8/2012	Pb	168,169,170	783	590	706	10	693.00
	X7-SB046-0304	9/8/2012	9/8/2012	Pb	171,172,173	382	433	409	10	408.00
	X7-SB046-0405	9/10/2012	9/10/2012	Pb	191,193,194	558	564	435	10	519.00
	X7-SB046-0506	9/10/2012	9/10/2012	Pb	195,196,197	61	65	60	10	62.00
X7-SB181	X7-SB181-0203	9/8/2012	9/8/2012	Pb	96,97,98	85	79	65	10	76.33
	X7-SB181-0304	9/8/2012	9/8/2012	Pb	99,100,101	28	26	33	10	29.00
X7-SB291	X7-SB291-0304	9/7/2012	9/8/2012	Pb	17,18,19	364	301	367	10	344.00
	X7-SB291-0405	9/7/2012	9/8/2012	Pb	20,21,22	52	40	30	10	40.67
X7-SB295	X7-SB295-0304	9/8/2012	9/9/2012	Pb	11,12,13	231	239	228	10	232.67
	X7-SB295-0405	9/8/2012	9/9/2012	Pb	14,15,16	13	17	11	10	13.67
X7-SB296	X7-SB296-0304	9/8/2012	9/9/2012	Pb	77,78,79	550	418	545	10	504.33
	X7-SB296-0405	9/8/2012	9/9/2012	Pb	80,81,82	41	36	42	10	39.67
	X7-SB296-0506	9/10/2012	9/11/2012	Pb	17,18,19	15	15	20	10	16.67
	X7-SB296-0607	9/10/2012	9/11/2012	Pb	20,21,22	11	10	16	10	12.33
X7-SB297	X7-SB297-0304	9/8/2012	9/8/2012	Pb	102,103,104	26	36	55	10	39.00
	X7-SB297-0405	9/8/2012	9/8/2012	Pb	105, 106, 107	18	28	9	10	18.33
X7-SB298	X7-SB298-0203	9/8/2012	9/9/2012	Pb	83,84,85	177	179	190	10	182.00
	X7-SB298-0304	9/8/2012	9/9/2012	Pb	86,87,88	704	619	856	10	726.33
	X7-SB298-0405	9/9/2012	9/11/2012	Pb	23,24,25	130	117	141	10	129.33
	X7-SB298-0506	9/9/2012	9/11/2012	Pb	26,27,28	48	42	48	10	46.00
	X7-SB300-0203	9/8/2012	9/8/2012	Pb	108,109,110	102	94	102	10	99.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB300	X7-SB300-0304	9/8/2012	9/8/2012	Pb	111,112,113	191	192	188	10	190.33
	X7-SB300-0405	9/10/2012	9/11/2012	Pb	5,6,7	604	566	550	10	573.33
	X7-SB300-0506	9/10/2012	9/11/2012	Pb	8,9,10	15	20	16	10	17.00
X7-SB301	X7-SB301-0304	9/8/2012	9/8/2012	Pb	174,175,176	284	237	335	10	285.33
	X7-SB301-0405	9/8/2012	9/8/2012	Pb	177,178,179	22	30	24	10	25.33
X7-SB303	X7-SB303-0304	9/8/2012	9/9/2012	Pb	32,33,34	18	10	10	10	12.67
	X7-SB303-0405	9/8/2012	9/9/2012	Pb	35,36,37	56	29	42	10	42.33
X7-SB349	X7-SB349-0203	9/8/2012	9/9/2012	Pb	120,121,122	79	35	66	10	60.00
	X7-SB349-0304	9/8/2012	9/9/2012	Pb	123,124,125	34	33	32	10	33.00
X7-SB351	X7-SB351-0203	9/7/2012	9/8/2012	Pb	30,31,32	387	622	479	10	496.00
	X7-SB351-0304	9/7/2012	9/8/2012	Pb	33,34,35	230	181	172	10	194.33
	X7-SB351-0405	9/10/2012	9/11/2012	Pb	11,12,13	14	12	2	10	9.33
	X7-SB351-0506	9/10/2012	9/11/2012	Pb	14,15,16	139	180	182	10	167.00
	X7-SB351-0607	9/11/2012	9/11/2012	Pb	309,310,311	10	4	12	10	8.67
	X7-SB351-0708	9/11/2012	9/11/2012	Pb	312,313,314	9	6	2	10	5.67
X7-SB358	X7-SB358-0203	9/8/2012	9/9/2012	Pb	38,39,40	273	302	395	10	323.33
	X7-SB358-0304	9/8/2012	9/9/2012	Pb	41,42,43	191	138	160	10	163.00
	X7-SB358-0405	9/10/2012	9/11/2012	Pb	53,54,55	267	280	270	10	272.33
	X7-SB358-0506	9/10/2012	9/11/2012	Pb	56,57,58	238	278	268	10	261.33
	X7-SB358-0607	9/11/2012	9/11/2012	Pb	315,316,317	ND	5	20	10	10.00
	X7-SB358-0708	9/11/2012	9/11/2012	Pb	318,319,320	11	4	11	10	8.67
X7-SB360	X7-SB360-0203	9/8/2012	9/8/2012	Pb	114,115,116	1772	1850	1787	10	1803.00
	X7-SB360-0304	9/8/2012	9/8/2012	Pb	123,124,125	94	105	106	10	101.67
X7-SB361	X7-SB361-0203	9/8/2012	9/8/2012	Pb	126,127,128	21	21	19	10	20.33
	X7-SB361-0304	9/8/2012	9/8/2012	Pb	129,130,131	122	136	92	10	116.67
X7-SB365	X7-SB365-0203	9/8/2012	9/8/2012	Pb	117,118,119	11	2	23	10	12.00
	X7-SB365-0304	9/8/2012	9/8/2012	Pb	120, 121,122	12	7	22	10	13.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB368	X7-SB368-0203	9/9/2012	9/9/2012	Pb	44,45,46	117	119	162	10	132.67
	X7-SB368-0304	9/9/2012	9/9/2012	Pb	47,48,49	13	19	19	10	17.00
X7-SB369	X7-SB369-0203	9/8/2012	9/9/2012	Pb	126,127,128	478	596	451	10	508.33
	X7-SB369-0304	9/8/2012	9/9/2012	Pb	129,130,131	666	644	527	10	612.33
	X7-SB369-0405	9/8/2012	9/10/2012	Pb	198,199,200	38	49	40	10	42.33
	X7-SB369-0506	9/8/2012	9/10/2012	Pb	201,202,203	39	41	33	10	37.67
X7-SB395	X7-SB395-0304	9/8/2012	9/9/2012	Pb	95,97,98	512	411	555	10	492.67
	X7-SB395-0405	9/8/2012	9/9/2012	Pb	99,100,101	270	243	224	10	245.67
	X7-SB395-0506	9/10/2012	9/10/2012	Pb	149,150,151	ND	6	13	10	8.00
	X7-SB395-0607	9/10/2012	9/10/2012	Pb	152,153,154	8	11	11	10	10.00
X7-SB396	X7-SB396-0304	Sample omitted due to its location next to other sample.								
	X7-SB396-0405									
X7-SB398	X7-SB398-0203	9/7/2012	9/8/2012	Pb	23,24,25	432	614	479	10	508.33
	X7-SB398-0304	9/7/2012	9/8/2012	Pb	26,27,28	308	248	286	10	280.67
	X7-SB398-0405	9/8/2012	9/8/2012	Pb	156,157,158	74	109	73	10	85.33
	X7-SB398-0506	9/8/2012	9/8/2012	Pb	159,160,161	26	27	31	10	28.00
X7-SB401	X7-SB401-0203	9/7/2012	9/8/2012	Pb	36,37,38	21	17	21	10	19.67
	X7-SB401-0304	9/7/2012	9/8/2012	Pb	39,40,41	8	10	8	10	8.67
X7-SB409	X7-SB409-0405	9/7/2012	9/8/2012	Pb	42,43,44	407	399	328	10	378.00
	X7-SB409-0506	9/7/2012	9/8/2012	Pb	45,46,47	34	17	16	10	22.33
X7-SB413	X7-SB413-0405	Sample omitted due to its location next to other sample.								
	X7-SB413-0506									
X7-SB417	X7-SB417-0506	9/8/2012	9/9/2012	Pb	17,18,19	111	116	129	10	118.67
	X7-SB417-0607	9/8/2012	9/9/2012	Pb	20,21,22	5	19	10	10	11.33
X7-SB551	X7-SS551-0001	9/7/2012	9/8/2012	Pb	48,49,50	431	460	313	10	401.33
	X7-SS551-0102	9/7/2012	9/8/2012	Pb	51,52,53	185	190	149	10	174.67
	X7-SB551-0203	9/7/2012	9/8/2012	Pb	54,55,56	180	150	187	10	172.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB551	X7-SB551-0304	9/7/2012	9/8/2012	Pb	57,58,59	193	284	247	10	241.33
	X7-SB551-0405	9/10/2012	9/10/2012	Pb	155,156,157	396	469	390	10	418.33
	X7-SB551-0506	9/10/2012	9/10/2012	Pb	158,159,160	3	13	ND	10	7.00
X7-SB552	X7-SS552-0001	9/7/2012	9/8/2012	Pb	60,61,62	36	50	47	10	44.33
	X7-SS552-0102	9/7/2012	9/8/2012	Pb	63,64,65	229	257	248	10	244.67
	X7-SB552-0203	9/7/2012	9/8/2012	Pb	66,67,68	138	119	141	10	132.67
	X7-SB552-0304	9/7/2012	9/8/2012	Pb	69,70,71	243	255	262	10	253.33
	X7-SB552-0405	9/10/2012	9/11/2012	Pb	204,205,206	961	948	969	10	959.33
	X7-SB552-0506	9/10/2012	9/11/2012	Pb	207,208,209	1	5	11	10	5.67
X7-SB553	X7-SS553-0001	9/8/2012	9/9/2012	Pb	102,103,104	477	336	303	10	372.00
	X7-SS553-0102	9/8/2012	9/9/2012	Pb	105,106,107	106	145	160	10	137.00
	X7-SB553-0203	9/8/2012	9/9/2012	Pb	229,230,231	123	127	104	10	118.00
	X7-SB553-0304	9/8/2012	9/9/2012	Pb	232,233,234	53	47	44	10	48.00
X7-SB554	X7-SS554-0001	9/8/2012	9/9/2012	Pb	132,133,134	168	132	131	10	143.67
	X7-SS554-0102	9/8/2012	9/9/2012	Pb	135,136,137	161	116	102	10	126.33
	X7-SB554-0203	9/8/2012	9/9/2012	Pb	235,236,237	1470	964	1130	10	1188.00
	X7-SB554-0304	9/8/2012	9/9/2012	Pb	238,239,240	137	140	136	10	137.67
	X7-SB554-0405	9/10/2012	9/11/2012	Pb	197,199,200	55	59	44	10	52.67
	X7-SB554-0506	9/10/2012	9/11/2012	Pb	201,202,203	22	5	6	10	11.00
X7-SB555	X7-SS555-0001	9/8/2012	9/9/2012	Pb	138,139,140	95	131	78	10	101.33
	X7-SS555-0102	9/8/2012	9/9/2012	Pb	141,142,143	471	532	471	10	491.33
	X7-SB555-0203	9/8/2012	9/9/2012	Pb	241,242,243	118	118	122	10	119.33
	X7-SB555-0304	9/8/2012	9/9/2012	Pb	244,245,246	15	26	28	10	23.00
X7-SB556	X7-SS556-0001	9/8/2012	9/9/2012	Pb	144,145,146	371	341	336	10	349.33
	X7-SS556-0102	9/8/2012	9/9/2012	Pb	147,148,149	2087	2167	1670	10	1974.67
	X7-SB556-0203	9/8/2012	9/9/2012	Pb	247,248,249	379	333	178	10	296.67
	X7-SB556-0304	9/8/2012	9/9/2012	Pb	250,251,252	263	280	286	10	276.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB556-0405	9/10/2012	9/11/2012	Pb	29,30,31	212	150	216	10	192.67
	X7-SB556-0506	9/10/2012	9/11/2012	Pb	32,33,34	638	561	704	10	634.33
	X7-SB556-0607	9/11/2012	9/11/2012	Pb	210,211,212	117	140	100	10	119.00
	X7-SB556-0708	9/11/2012	9/11/2012	Pb	213,214,215	41	54	40	10	45.00
X7-SB557	X7-SS557-0001	9/8/2012	9/9/2012	Pb	150,151,152	283	307	255	10	281.67
	X7-SS557-0102	9/8/2012	9/9/2012	Pb	153,154,155	331	362	468	10	387.00
	X7-SB557-0203	9/8/2012	9/9/2012	Pb	253,254,255	724	879	621	10	741.33
	X7-SB557-0304	9/8/2012	9/9/2012	Pb	256,257,258	1639	1668	1816	10	1707.67
	X7-SB557-0405	9/10/2012	9/11/2012	Pb	336,337,338	34	27	41	10	34.00
	X7-SB557-0506	9/10/2012	9/11/2012	Pb	339,340,341	18	27	36	10	27.00
X7-SB558	X7-SS558-0001	9/8/2012	9/9/2012	Pb	156,157,158	485	539	478	10	500.67
	X7-SS558-0102	9/8/2012	9/9/2012	Pb	159,160,161	226	236	187	10	216.33
	X7-SB558-0203	9/8/2012	9/9/2012	Pb	259,260,261	88	97	78	10	87.67
	X7-SB558-0304	9/8/2012	9/9/2012	Pb	262,263,264	1415	1796	1739	10	1650.00
	X7-SB558-0405	9/10/2012	9/11/2012	Pb	35,36,37	8	26	5	10	13.00
	X7-SB558-0506	9/10/2012	9/11/2012	Pb	38,39,40	185	161	220	10	188.67
	X7-SB558-0607	9/10/2012	9/11/2012	Pb	?,328,329	32	44	38	10	38.00
	X7-SB558-0708	9/10/2012	9/11/2012	Pb	330,331,332	33	15	24	10	24.00
X7-SB559	X7-SS559-0001	9/8/2012	9/8/2012	Pb	132,133,134	430	353	507	10	430.00
	X7-SS559-0102	9/8/2012	9/8/2012	Pb	135,136,137	734	1220	802	10	918.67
	X7-SB559-0203	9/8/2012	9/9/2012	Pb	265,266,267	58	58	61	10	59.00
	X7-SB559-0304	9/8/2012	9/9/2012	Pb	268,269,270	12	6	17	10	11.67
X7-SB560	X7-SS560-0001	9/8/2012	9/8/2012	Pb	138,139,140	326	371	331	10	342.67
	X7-SS560-0102	9/8/2012	9/8/2012	Pb	141,142,143	505	1129	590	10	741.33
	X7-SB560-0203	9/8/2012	9/9/2012	Pb	289,290,291	146	108	163	10	139.00
	X7-SB560-0304	9/8/2012	9/9/2012	Pb	292,293,294	45	70	58	10	57.67
	X7-SS561-0001	9/8/2012	9/9/2012	Pb	23,24,25	211	216	209	10	212.00

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB561	X7-SS561-0102	9/8/2012	9/9/2012	Pb	26,27,28	123	128	83	10	111.33
	X7-SB561-0203	9/8/2012	9/9/2012	Pb	283,284,285	173	180	167	10	173.33
	X7-SB561-0304	9/8/2012	9/9/2012	Pb	286,287,288	14	5	18	10	12.33
	X7-SB561-0405	9/10/2012	9/11/2012	Pb	216,217,218	9	19	10	10	12.67
	X7-SB561-0506	9/10/2012	Not Analyzed							
X7-SB562	X7-SS562-0001	9/8/2012	9/8/2012	Pb	162,163,164	346	367	387	10	366.67
	X7-SS562-0102	9/8/2012	9/9/2012	Pb	29,30,31	368	355	358	10	360.33
	X7-SB562-0203	9/8/2012	9/9/2012	Pb	295,296,297	207	167	153	10	175.67
	X7-SB562-0304	9/8/2012	9/9/2012	Pb	298,299,300	10	19	7	10	12.00
X7-SB563	X7-SS563-0001	9/8/2012	9/8/2012	Pb	144,145,146	210	258	218	10	228.67
	X7-SS563-0102	9/8/2012	9/8/2012	Pb	147,148,149	11	12	18	10	13.67
	X7-SB563-0203	9/8/2012	9/9/2012	Pb	301,302,303	16	12	10	10	12.67
	X7-SB563-0304	9/8/2012	9/9/2012	Pb	304,305,306	11	8	15	10	11.33
X7-SB564	X7-SS564-0001	9/8/2012	9/8/2012	Pb	150,151,152	206	235	212	10	217.67
	X7-SS564-0102	9/8/2012	9/8/2012	Pb	153,154,155	54	44	71	10	56.33
	X7-SB564-0203	9/8/2012	9/9/2012	Pb	307,308,309	16	6	0	10	7.33
	X7-SB564-0304	9/8/2012	9/9/2012	Pb	310,311,312	18	5	0	10	7.67
X7-SB565	X7-SS565-0001	9/7/2012	9/8/2012	Pb	72,73,74	1735	1937	1771	10	1814.33
	X7-SS565-0102	9/7/2012	9/8/2012	Pb	75,76,77	4333	4542	4457	10	4444.00
	X7-SB565-0203	9/7/2012	9/8/2012	Pb	78,79,80	884	814	897	10	865.00
	X7-SB565-0304	9/7/2012	9/8/2012	Pb	81,82,83	20	25	19	10	21.33
	X7-SB565-0405	9/10/2012	9/11/2012	Pb	41,42,43	43	21	33	10	32.33
	X7-SB565-0506	9/10/2012	9/11/2012	Pb	44,45,46	10	14	19	10	14.33
X7-SB566	X7-SS566-0001	9/7/2012	9/8/2012	Pb	84,85,86	476	893	783	10	717.33
	X7-SS566-0102	9/7/2012	9/8/2012	Pb	87,88,89	262	266	429	10	319.00
	X7-SB566-0203	9/7/2012	9/8/2012	Pb	90,91,92	1746	1448	1386	10	1526.67
	X7-SB566-0304	9/7/2012	9/8/2012	Pb	93,94,95	99	70	42	10	70.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB566-0405	9/11/2012	9/11/2012	Pb	239,240,241	28	37	18	10	27.67
	X7-SB566-0506	9/11/2012	Not Analyzed							
X7-SB581	X7-SS581-0001	9/7/2012	9/9/2012	Pb	186,187,188	452	292	316	10	353.33
	X7-SS581-0102	9/7/2012	9/9/2012	Pb	189,190,191	23	17	20	10	20.00
X7-SB582	X7-SS582-0001	9/7/2012	9/9/2012	Pb	331,332,333	936	823	1022	10	927.00
	X7-SS582-0102	9/7/2012	9/9/2012	Pb	334,335,336	3380	3537	3601	10	3506.00
	X7-SB582-0203	9/7/2012	9/10/2012	Pb	71,72,73	1949	2239	1922	10	2036.67
	X7-SB582-0304	9/7/2012	9/10/2012	Pb	74,75,76	230	237	148	10	205.00
	X7-SB582-0405	9/10/2012	9/10/2012	Pb	161,162,163	23	47	25	10	31.67
	X7-SB582-0506	9/10/2012	9/10/2012	Pb	164,165,166	17	21	11	10	16.33
X7-SB583	X7-SS583-0001	9/7/2012	9/9/2012	Pb	337,338,339	3375	3727	3648	10	3583.33
	X7-SS583-0102	9/7/2012	9/9/2012	Pb	340,341,342	1954	1936	2513	10	2134.33
	X7-SB583-0203	9/7/2012	9/10/2012	Pb	77,78,79	1535	1680	1680	10	1631.67
	X7-SB583-0304	9/7/2012	9/10/2012	Pb	80,81,82	16	5	15	10	12.00
	X7-SB583-0405	9/10/2012	9/10/2012	Pb	167,168,169	11	10	6	10	9.00
	X7-SB583-0506	9/10/2012	9/10/2012	Pb	170,171,172	10	13	16	10	13.00
X7-SB584	X7-SS584-0001	9/7/2012	9/9/2012	Pb	223,224,225	236	189	187	10	204.00
	X7-SS584-0102	9/7/2012	9/9/2012	Pb	226,227,228	7	6	6	10	6.33
	X7-SB584-0203	9/10/2012	9/10/2012	Pb	65,66,67	ND	1	3	10	3.00
	X7-SB584-0304	9/10/2012	9/10/2012	Pb	68,69,70	10	7	7	10	8.00
X7-SB585	X7-SS585-0001	9/7/2012	9/9/2012	Pb	343,344,345	208	169	155	10	177.33
	X7-SS585-0102	9/7/2012	9/9/2012	Pb	346,347,348	11	13	7	10	10.33
	X7-SS585-0203	9/7/2012	Not Analyzed							
	X7-SS585-0304	9/7/2012	Not Analyzed							
X7-SB586	X7-SS586-0001	9/10/2012	9/11/2012	Pb	47,48,49	341	390	351	10	360.67
	X7-SS586-0102	9/10/2012	9/11/2012	Pb	50,51,52	179	182	171	10	177.33
	X7-SS586-0203	9/10/2012	Not Analyzed							

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SS586-0304	9/10/2012	Not Analyzed							
X7-SB587	X7-SS587-0001	9/10/2012	9/11/2012	Pb	59,60,61	130	154	129	10	137.67
	X7-SS587-0102	9/10/2012	9/11/2012	Pb	62,63,64	98	115	124	10	112.33
	X7-SS587-0203	9/10/2012	Not Analyzed							
	X7-SS587-0304	9/10/2012	Not Analyzed							
X7-SB588	X7-SS588-0001	9/10/2012	9/11/2012	Pb	65,66,67	216	291	269	10	258.67
	X7-SS588-0102	9/10/2012	9/11/2012	Pb	68,69,70	51	51	57	10	53.00
	X7-SB588-0203	9/10/2012	9/11/2012	Pb	219,220,221	55	70	62	10	62.33
	X7-SB588-0304	9/10/2012	Not Analyzed							
X7-SB589	X7-SS589-0001	9/10/2012	9/11/2012	Pb	71,72,73	365	476	302	10	381.00
	X7-SS589-0102	9/10/2012	9/11/2012	Pb	74,75,76	22	32	31	10	28.33
	X7-SB589-0203	9/10/2012	9/11/2012	Pb	222,223,224	194	294	212	10	233.33
	X7-SB589-0304	9/10/2012	9/11/2012	Pb	225,226,227	306	276	258	10	280.00
X7-SB590	X7-SS590-0001	9/10/2012	9/11/2012	Pb	77,78,79	179	154	168	10	167.00
	X7-SS590-0102	9/10/2012	9/11/2012	Pb	80,81,82	31	41	29	10	33.67
	X7-SS590-0203	9/10/2012	Not Analyzed							
	X7-SS590-0304	9/10/2012	Not Analyzed							
X7-SB591	X7-SS591-0001	9/10/2012	9/11/2012	Pb	83,84,85	152	165	210	10	175.67
	X7-SS591-0102	9/10/2012	9/11/2012	Pb	86,87,88	815	726	791	10	777.33
	X7-SB591-0203	9/10/2012	9/11/2012	Pb	228,29,230	304	293	319	10	305.33
	X7-SB591-0304	9/10/2012	9/11/2012	Pb	231,232,233	356	356	289	10	333.67
X7-SB592	X7-SS592-0001	9/10/2012	9/11/2012	Pb	89,90,91	252	220	206	10	226.00
	X7-SS592-0102	9/10/2012	9/11/2012	Pb	92,93,94	396	237	231	10	288.00
	X7-SB592-0203	9/10/2012	9/11/2012	Pb	95,96,97	273	420	468	10	387.00
	X7-SB592-0304	9/10/2012	9/11/2012	Pb	98,99,100	496	472	462	10	476.67
	X7-SB592-0405	9/10/2012	9/11/2012	Pb	101,102,103	1288	1340	1101	10	1243.00
	X7-SB592-0506	9/10/2012	9/11/2012	Pb	104,105,106	191	188	227	10	202.00

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB592-0607	9/11/2012	9/11/2012	Pb	322,323,324	24	33	78	10	45.00
	X7-SB592-0708	9/11/2012	9/11/2012	Pb	325,326,327	15	13	9	10	12.33
X7-SB593	X7-SS593-0001	9/10/2012	9/11/2012	Pb	140,141,142	460	447	554	10	487.00
	X7-SS593-0102	9/10/2012	9/11/2012	Pb	143,144,145	351	365	386	10	367.33
	X7-SB593-0203	9/10/2012	9/11/2012	Pb	234,235,236	7	19	14	10	13.33
	X7-SB593-0304	9/10/2012	9/11/2012	Pb	237,238,239	113	103	108	10	108.00
X7-SB594	X7-SS594-0001	9/10/2012	9/11/2012	Pb	107,108,109	225	274	287	10	262.00
	X7-SS594-0102	9/10/2012	9/11/2012	Pb	110,111,112	450	460	410	10	440.00
	X7-SB594-0203	9/10/2012	9/11/2012	Pb	113,114,115	546	636	717	10	633.00
	X7-SB594-0304	9/10/2012	9/11/2012	Pb	158,159,160	91	88	100	10	93.00
X7-SB595	X7-SS595-0001	9/10/2012	9/11/2012	Pb	152,153,154	178	117	178	10	157.67
	X7-SS595-0102	9/10/2012	9/11/2012	Pb	155,156,157	6	6	12	10	8.00
	X7-SS595-0203	9/10/2012	Not Analyzed							
	X7-SS595-0304	9/10/2012	Not Analyzed							
X7-SB596	X7-SS596-0001	9/10/2012	9/11/2012	Pb	116,117,118	19	11	6	10	12.00
	X7-SS596-0102	9/10/2012	9/11/2012	Pb	119,120,121	16	2	9	10	9.00
	X7-SS596-0203	9/10/2012	Not Analyzed							
	X7-SS596-0304	9/10/2012	Not Analyzed							
X7-SB597	X7-SS597-0001	9/10/2012	9/11/2012	Pb	146,147,148	98	135	75	10	102.67
	X7-SS597-0102	9/10/2012	9/11/2012	Pb	149,150,151	4	5	14	10	7.67
	X7-SS597-0203	9/10/2012	Not Analyzed							
	X7-SS597-0304	9/10/2012	Not Analyzed							
X7-SB598	X7-SS598-0001	9/10/2012	9/10/2012	Pb	82,83,84	39	43	48	10	43.33
	X7-SS598-0102	9/10/2012	9/10/2012	Pb	85,86,87	12	19	15	10	15.33
	X7-SS598-0203	9/10/2012	Not Analyzed							
	X7-SS598-0304	9/10/2012	Not Analyzed							
	X7-SS599-0001	9/10/2012	9/10/2012	Pb	88,89,90	14	12	20	10	15.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB599	X7-SS599-0102	9/10/2012	9/10/2012	Pb	91,92,93	8	8	ND	10	7.00
	X7-SS599-0203	9/10/2012	Not Analyzed							
	X7-SS599-0304	9/10/2012	Not Analyzed							
X7-SB600	X7-SS600-0001	9/10/2012	9/10/2012	Pb	94,95,96	28	40	24	10	30.67
	X7-SS600-0102	9/10/2012	9/10/2012	Pb	97,98,99	12	4	15	10	10.33
	X7-SS600-0203	9/10/2012	Not Analyzed							
	X7-SS600-0304	9/10/2012	Not Analyzed							
X7-SB601	X7-SS601-0001	9/10/2012	9/10/2012	Pb	100,101,102	1337	1500	1512	10	1449.67
	X7-SS601-0102	9/10/2012	9/10/2012	Pb	103,104,105	2021	1815	1820	10	1885.33
	X7-SB601-0203	9/10/2012	9/10/2012	Pb	118, 120,121	565	502	499	10	522.00
	X7-SB601-0304	9/10/2012	9/10/2012	Pb	122,123,124	31	26	37	10	31.33
X7-SB602	X7-SS602-0001	9/10/2012	9/10/2012	Pb	131,132,133	131	128	112	10	123.67
	X7-SS602-0102	9/10/2012	9/10/2012	Pb	134,135,136	312	210	288	10	270.00
	X7-SB602-0203	9/10/2012	9/10/2012	Pb	173,174,175	129	136	146	10	137.00
	X7-SB602-0304	9/10/2012	9/10/2012	Pb	176,177,178	48	93	63	10	68.00
X7-SB603	X7-SS603-0001	9/10/2012	9/10/2012	Pb	137,138,139	77	90	92	10	86.33
	X7-SS603-0102	9/10/2012	9/10/2012	Pb	140,141,142	197	316	273	10	262.00
	X7-SB603-0203	9/10/2012	9/10/2012	Pb	179,180,181	270	276	326	10	290.67
	X7-SB603-0304	9/10/2012	9/10/2012	Pb	182,183,183	461	447	503	10	470.33
	X7-SB603-0405	9/11/2012	9/11/2012	Pb	242,243,244	8	10	6	10	8.00
	X7-SB603-0506	9/11/2012	9/11/2012	Pb	245,246,247	ND	7	4	10	5.33
X7-SB604	X7-SS604-0001	9/10/2012	9/10/2012	Pb	143,144,145	68	85	58	10	70.33
	X7-SS604-0102	9/10/2012	9/10/2012	Pb	146,147,148	329	313	397	10	346.33
	X7-SB604-0203	9/10/2012	9/10/2012	Pb	184,185,186	361	363	311	10	345.00
	X7-SB604-0304	9/10/2012	9/10/2012	Pb	187,188,189	12	14	8	10	11.33
X7-SB605	X7-SS605-0001	9/10/2012	9/10/2012	Pb	106,107,108	2098	2043	2248	10	2129.67
	X7-SS605-0102	9/10/2012	9/10/2012	Pb	109,110,111	4542	4274	5007	10	4607.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB605-0203	9/10/2012	9/10/2012	Pb	125,126,127	7327	6727	6216	10	6756.67
	X7-SB605-0304	9/10/2012	9/10/2012	Pb	128,129,130	62	51	52	10	55.00
X7-SB606	X7-SS606-0001	9/10/2012	9/10/2012	Pb	112,113,114	8	5	8	10	7.00
	X7-SS606-0102	9/10/2012	9/10/2012	Pb	115,116,117	19	4	1	10	8.00
	X7-SS606-0203	9/10/2012	Not Analyzed							
	X7-SS606-0304	9/10/2012	Not Analyzed							
X7-SB610	X7-SS610-0001	9/11/2012	9/11/2012	Pb	161,162,163	1423	1495	1472	10	1463.33
	X7-SS610-0102	9/11/2012	9/11/2012	Pb	164,165,166	123	107	129	10	119.67
	X7-SB610-0203	9/11/2012	9/11/2012	Pb	248,249,250	25	33	29	10	29.00
	X7-SB610-0304	9/11/2012	Not Analyzed							
X7-SB611	X7-SS611-0001	9/11/2012	9/11/2012	Pb	167,168,169	1533	1629	1643	10	1601.67
	X7-SS611-0102	9/11/2012	9/11/2012	Pb	170,171,172	1869	1953	2337	10	2053.00
	X7-SB611-0203	9/11/2012	9/11/2012	Pb	251,252,253	254	221	227	10	234.00
	X7-SB611-0304	9/11/2012	9/11/2012	Pb	254,255,256	23	69	20	10	37.33
	X7-SB611-0405	9/11/2012	9/11/2012	Pb	257,258,259	60	57	45	10	54.00
X7-SB612	X7-SS612-0001	9/11/2012	9/11/2012	Pb	173,174,175	253	379	271	10	301.00
	X7-SS612-0102	9/11/2012	9/11/2012	Pb	176,177,178	289	349	257	10	298.33
	X7-SB612-0203	9/11/2012	9/11/2012	Pb	260,261,262	505	480	448	10	477.67
	X7-SB612-0304	9/11/2012	9/11/2012	Pb	263,264,265	21	27	20	10	22.67
X7-SB613	X7-SS613-0001	9/11/2012	9/11/2012	Pb	179,180,181	193	195	208	10	198.67
	X7-SS613-0102	9/11/2012	9/11/2012	Pb	182,183,184	304	277	206	10	262.33
	X7-SB613-0203	9/11/2012	9/11/2012	Pb	285,286,287	8	7	25	10	13.33
	X7-SB613-0304	9/11/2012	9/11/2012	Pb	288,289,290	3	14	3	10	6.67
X7-SB614	X7-SS614-0001	9/11/2012	9/11/2012	Pb	185,186,187	124	113	120	10	119.00
	X7-SS614-0102	9/11/2012	9/11/2012	Pb	188,189,190	64	36	31	10	43.67
	X7-SS614-0203	9/11/2012	Not Analyzed							
	X7-SS614-0304	9/11/2012	Not Analyzed							

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB615	X7-SS615-0001	9/11/2012	9/11/2012	Pb	191,192,193	339	325	287	10	317.00
	X7-SS615-0102	9/11/2012	9/11/2012	Pb	194,195,196	148	110	128	10	128.67
	X7-SB615-0203	9/11/2012	9/11/2012	Pb	291,292,293	52	55	29	10	45.33
	X7-SB615-0304	9/11/2012	9/11/2012	Pb	294,295,296	117	123	191	10	143.67
X7-SB616	X7-SS616-0001	9/11/2012	9/11/2012	Pb	285,286,287	213	210	221	10	214.67
	X7-SS616-0102	9/11/2012	9/11/2012	Pb	288,289,290	305	289	258	10	284.00
	X7-SB616-0203	9/11/2012	9/11/2012	Pb	291,292,293	7	2	8	10	5.67
	X7-SB616-0304	9/11/2012	9/11/2012	Pb	294,295,296	12	25	11	10	16.00
X7-SB617	X7-SS617-0001	9/11/2012	9/11/2012	Pb	282,283,284	94	124	136	10	118.00
	X7-SS617-0102	9/11/2012	9/11/2012	Pb	333,334,335	7	11	15	10	11.00
	X7-SS617-0203	9/11/2012	Not Analyzed							
	X7-SS617-0304	9/11/2012	Not Analyzed							
X7-SB618	X7-SS618-0001	9/11/2012	9/11/2012	Pb	269,270,271	4	20	2	10	8.67
	X7-SS618-0102	9/11/2012	9/11/2012	Pb	342,343,344	8	2	6	10	5.33
	X7-SS618-0203	9/11/2012	9/11/2012	Pb	346, 347, 348	13	10	13	10	12.00
	X7-SS618-0304	9/11/2012	Not Analyzed							
X7-SB619	X7-SS619-0001	9/11/2012	9/11/2012	Pb	385,386,387	791	781	838	10	803.33
	X7-SS619-0102	9/11/2012	9/11/2012	Pb	388,389,390	1280	3856	1546	10	2227.33
	X7-SB619-0203	9/11/2012	9/11/2012	Pb	427,428,429	2415	2636	2778	10	2609.67
	X7-SB619-0304	9/11/2012	9/11/2012	Pb	433,434,435	906	983	991	10	960.00
	X7-SB619-0405	9/11/2012	9/11/2012	Pb	436,437,438	2	15	19	10	12.00
	X7-SB619-0506	9/11/2012	9/11/2012	Pb	430,431,432	6	19	62	10	29.00
X7-SB620	X7-SS620-0001	9/11/2012	9/11/2012	Pb	273,274,275	2092	1382	1911	10	1795.00
	X7-SS620-0001	9/11/2012	9/11/2012	Pb	349, 350,351	2062	1998	2234	10	2098.00
	X7-SS620-0102	9/11/2012	9/11/2012	Pb	352,353,354	910	920	818	10	882.67
	X7-SB620-0203	9/11/2012	9/11/2012	Pb	276,277	220	134	---	10	177.00
	X7-SB620-0203	9/11/2012	9/11/2012	Pb	355,356,357	157	93	84	10	111.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB620-0304	9/11/2012	9/11/2012	Pb	278	168	---	---	10	168.00
	X7-SB620-0304	9/11/2012	9/11/2012	Pb	358,359,360	31	11	19	10	20.33
X7-SB621	X7-SS621-0001	9/11/2012	9/11/2012	Pb	280	272	---	---	10	272.00
	X7-SS621-0001	9/11/2012	9/11/2012	Pb	361,362,363	298	353	269	10	306.67
	X7-SS621-0102	9/11/2012	9/11/2012	Pb	364,365,366	183	186	159	10	176.00
	X7-SB621-0203	9/11/2012	9/11/2012	Pb	439,440,441	434	455	511	10	466.67
	X7-SB621-0304	9/11/2012	9/11/2012	Pb	442,443,444	4	17	18	10	13.00
X7-SB622	X7-SS622-0001	9/11/2012	9/11/2012	Pb	279	169	---	---	10	169.00
	X7-SS622-0001	9/11/2012	9/11/2012	Pb	367,368,369	103	112	118	10	111.00
	X7-SS622-0102	9/11/2012	9/11/2012	Pb	370,371,372	346	351	403	10	366.67
	X7-SB622-0203	9/11/2012	9/11/2012	Pb	445,446,447	332	322	392	10	348.67
	X7-SB622-0304	9/11/2012	9/11/2012	Pb	448,449,450	8	96	7	10	37.00
X7-SB623	X7-SS623-0001	9/11/2012	9/11/2012	Pb	281	57	---	---	10	57.00
	X7-SS623-0001	9/11/2012	9/11/2012	Pb	391,392,393	53	71	56	10	60.00
	X7-SS623-0102	9/11/2012	9/11/2012	Pb	394,395,396	15	12	16	10	14.33
	X7-SS623-0203	9/11/2012	Not Analyzed							
	X7-SS623-0304	9/11/2012	Not Analyzed							
X7-SB624	X7-SS624-0001	9/11/2012	9/11/2012	Pb	266,267,268	234	151	162	10	182.33
	X7-SS624-0001	9/11/2012	9/11/2012	Pb	373,374,375	224	254	244	10	240.67
	X7-SS624-0102	9/11/2012	9/11/2012	Pb	376,377,378	1064	1144	854	10	1020.67
	X7-SB624-0203	9/11/2012	9/11/2012	Pb	379,380,381	5628	3300	3220	10	4049.33
	X7-SB624-0304	9/11/2012	9/11/2012	Pb	382,383,384	2500	2465	2469	10	2478.00
	X7-SB624-0405	10/3/2012	10/4/2012	Pb	5,6,7	1986	1752	1931	10	1889.67
	X7-SB624-0506	10/3/2012	10/4/2012	Pb	8,9,10	20	15	15	10	16.67
	X7-SB624-0607	10/3/2012	10/4/2012	Pb	11,12,13	12	11	12	10	11.67
	X7-SB624-0708	10/3/2012	10/4/2012	Pb	14,15,16	17	19	13	10	16.33
	X7-SS625-0001	9/11/2012	9/11/2012	Pb	397,398,399	465	406	392	10	421.00

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB625	X7-SS625-0102	9/11/2012	9/11/2012	Pb	400,401,402	896	931	1186	10	1004.33
	X7-SB625-0203	9/11/2012	9/11/2012	Pb	451,452,453	488	398	450	10	445.33
	X7-SB625-0304	9/11/2012	9/11/2012	Pb	454,455,456	434	1013	394	10	613.67
	X7-SB625-0405	10/3/2012	10/4/2012	Pb	17,18,19	30	37	42	10	36.33
	X7-SB625-0506	10/3/2012	10/4/2012	Pb	20,21,22	12	14	12	10	12.67
	X7-SB625-0607	10/3/2012	10/4/2012	Pb	23,24,25	13	13	10	10	12.00
	X7-SB625-0708	10/3/2012	Not Analyzed							
X7-SB626	X7-SS626-0001	9/11/2012	9/11/2012	Pb	403,404,405	110	133	162	10	135.00
	X7-SS626-0102	9/11/2012	9/11/2012	Pb	406,407,408	10	17	17	10	14.67
	X7-SB626-0203	9/11/2012	9/11/2012	Pb	415,416,417	6	10	9	10	8.33
	X7-SB626-0304	9/11/2012	9/11/2012	Pb	418,419,420	13	11	16	10	13.33
X7-SB627	X7-SS627-0001	9/11/2012	9/11/2012	Pb	409,410,411	127	119	105	10	117.00
	X7-SS627-0102	9/11/2012	9/11/2012	Pb	412,413,414	165	164	160	10	163.00
	X7-SB627-0203	9/11/2012	9/11/2012	Pb	457,458,459	15	12	12	10	13.00
	X7-SB627-0304	9/11/2012	9/11/2012	Pb	460,461,462	16	12	12	10	13.33
X7-SB628	X7-SS628-0001	9/11/2012	9/11/2012	Pb	421,422,423	67	42	58	10	55.67
	X7-SS628-0102	9/11/2012	9/11/2012	Pb	424,425,426	67	50	73	10	63.33
	X7-SS628-0203	9/11/2012	Not Analyzed							
	X7-SS628-0304	9/11/2012	Not Analyzed							
X7-SB629	X7-SS629-0001	10/3/2012	10/4/2012	Pb	26,27,28	385	433	407	10	408.33
	X7-SS629-0102	10/3/2012	10/4/2012	Pb	29,30,31	711	704	796	10	737.00
	X7-SB629-0203	10/3/2012	10/4/2012	Pb	35,36,37	1419	879	682	10	993.33
	X7-SB629-0304	10/3/2012	10/4/2012	Pb	38,39,40	1408	1426	1510	10	1448.00
	X7-SB629-0405	10/6/2012	10/7/2012	Pb	5,6,7	29	17	20	10	22.00
	X7-SB629-0506	10/6/2012	10/7/2012	Pb	8,9,10	11	21	10	10	14.00
X7-SB630	X7-SS630-0001	10/3/2012	10/4/2012	Pb	41,42,43	3207	3035	2961	10	3067.67
	X7-SS630-0102	10/3/2012	10/4/2012	Pb	44,45,46	55	65	42	10	54.00

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X7-SB630	X7-SB630-0203	10/3/2012	10/4/2012	Pb	32,33,34	17	11	14	10	14.00
	X7-SB630-0304	10/3/2012	10/4/2012	Pb	47,48,49	11	10	10	10	10.33
X7-SB631	X7-SS631-0001	10/3/2012	10/3/2012	Pb	5,6,7	17	25	30	10	24.00
	X7-SS631-0102	10/3/2012	10/3/2012	Pb	8,9,10	20	11	11	10	14.00
	X7-SB631-0203	10/3/2012	10/3/2012	Pb	11,12,13	11	13	12	10	12.00
X7-SB632	X7-SS632-0001	10/3/2012	10/3/2012	Pb	14,15,16	2559	1059	1043	10	1553.67
	X7-SS632-0102	10/3/2012	10/3/2012	Pb	17,18,19	2719	2791	3033	10	2847.67
	X7-SB632-0203	10/3/2012	10/3/2012	Pb	20,21,22	2316	2689	2681	10	2562.00
	X7-SB632-0304	10/3/2012	10/3/2012	Pb	23,24,25	4194	4269	3966	10	4143.00
	X7-SB632-0405	10/3/2012	10/3/2012	Pb	26,27,28	356	277	424	10	352.33
	X7-SB632-0506	10/3/2012	10/3/2012	Pb	29,30,31	13	18	14	10	15.00
X7-SB633	X7-SS633-0001	10/3/2012	10/3/2012	Pb	32,33,34	4961	4954	5821	10	5245.33
	X7-SS633-0102	10/3/2012	10/3/2012	Pb	35,36,37	88	77	86	10	83.67
	X7-SB633-0203	10/3/2012	10/3/2012	Pb	38,39,40	54	38	62	10	51.33
	X7-SB633-0304	10/3/2012	10/3/2012	Pb	41,42,43	20	29	54	10	34.33
X7-SB634	X7-SS634-0001	10/3/2012	10/3/2012	Pb	44,45,46	1498	1300	1273	10	1357.00
	X7-SS634-0102	10/3/2012	10/3/2012	Pb	47,48,49	1915	1845	2415	10	2058.33
	X7-SB634-0203	10/3/2012	10/3/2012	Pb	50,51,52	3428	3750	3297	10	3491.67
	X7-SB634-0304	10/3/2012	10/3/2012	Pb	53,54,55	13	23	16	10	17.33
X7-SB635	X7-SS635-0001	10/3/2012	10/3/2012	Pb	56,57,58	2342	2360	2084	10	2262.00
	X7-SS635-0102	10/3/2012	10/3/2012	Pb	59,60,61	4329	4015	4634	10	4326.00
	X7-SB635-0203	10/3/2012	10/3/2012	Pb	62,63,64	4736	5014	5478	10	5076.00
	X7-SB635-0304	10/3/2012	10/3/2012	Pb	65,66,67	91	87	77	10	85.00
	X7-SB635-0405	10/3/2012	10/3/2012	Pb	68,69,70	3606	3366	3551	10	3507.67
	X7-SB635-0506	10/3/2012	10/3/2012	Pb	71,72,73	19	16	11	10	15.33
X7-SB636	X7-SS636-0001	10/3/2012	10/4/2012	Pb	50,51,52	866	810	857	10	844.33
	X7-SS636-0102	10/3/2012	10/4/2012	Pb	53,54,55	2936	3527	3303	10	3255.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB636-0203	10/3/2012	10/4/2012	Pb	56,57,58	2302	2087	2058	10	2149.00
	X7-SB636-0304	10/3/2012	10/4/2012	Pb	59,60,61	99	226	166	10	163.67
X7-SB637	X7-SS637-0001	10/3/2012	10/4/2012	Pb	74,75,76	1888	1866	1704	10	1819.33
	X7-SS637-0102	10/3/2012	10/4/2012	Pb	77,78,79	522	551	553	10	542.00
	X7-SB637-0203	10/3/2012	10/4/2012	Pb	80,81,82	1477	1778	1527	10	1594.00
	X7-SB637-0304	10/3/2012	10/4/2012	Pb	83,84,85	180	152	238	10	190.00
	X7-SB637-0405	10/6/2012	10/6/2012	Pb	5,6,7	18	27	22	10	22.33
	X7-SB637-0506	10/6/2012	10/6/2012	Pb	8,9,10	12	16	23	10	17.00
X7-SB638	X7-SS638-0001	10/3/2012	10/4/2012	Pb	62,63,64	305	323	257	10	295.00
	X7-SS638-0102	10/3/2012	10/4/2012	Pb	65,66,67	247	234	247	10	242.67
	X7-SB638-0203	10/3/2012	10/4/2012	Pb	68,69,70	497	384	403	10	428.00
	X7-SB638-0304	10/3/2012	10/4/2012	Pb	71,72,73	375	524	667	10	522.00
	X7-SB638-0405	10/6/2012	10/7/2012	Pb	11,12,13	309	214	194	10	239.00
	X7-SB638-0506	10/6/2012	10/72012	Pb	14,15,16	29	45	36	10	36.67
X7-SB639	X7-SS639-0001	10/3/2012	10/4/2012	Pb	86,87,88	919	851	860	10	876.67
	X7-SS639-0102	10/3/2012	10/4/2012	Pb	89,90,91	1874	1491	1614	10	1659.67
	X7-SB639-0203	10/3/2012	10/4/2012	Pb	92,93,94	1433	1506	1499	10	1479.33
	X7-SB639-0304	10/3/2012	10/4/2012	Pb	95,96,97	103	45	71	10	73.00
X7-SB640	X7-SS640-0001	10/3/2012	10/4/2012	Pb	98,99,100	308	294	289	10	297.00
	X7-SS640-0102	10/3/2012	10/4/2012	Pb	101,102,103	1389	1344	1301	10	1344.67
	X7-SB640-0203	10/3/2012	10/4/2012	Pb	104,105,106	412	389	406	10	402.33
	X7-SB640-0304	10/3/2012	10/4/2012	Pb	107,108,109	20	20	12	10	17.33
X7-SB641	X7-SS641-0001	10/3/2012	10/4/2012	Pb	110,111,112	89	84	101	10	91.33
	X7-SS641-0102	10/3/2012	10/4/2012	Pb	113,114,115	358	377	372	10	369.00
	X7-SB641-0203	10/3/2012	10/4/2012	Pb	116,117,118	298	244	251	10	264.33
	X7-SB641-0304	10/3/2012	10/4/2012	Pb	119,120,121	19	23	18	10	20.00
	X7-SS642-0001	10/3/2012	10/4/2012	Pb	122,123,124	302	161	214	10	225.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB642	X7-SS642-0102	10/3/2012	10/4/2012	Pb	125,126,127	124	132	147	10	134.33
	X7-SB642-0203	10/3/2012	10/4/2012	Pb	128,129,130	312	280	347	10	313.00
	X7-SB642-0304	10/3/2012	10/4/2012	Pb	131,132,133	15	15	20	10	16.67
X7-SB643	X7-SS643-0001	10/3/2012	10/4/2012	Pb	134,135,136	193	164	184	10	180.33
	X7-SS643-0102	10/3/2012	10/4/2012	Pb	137,138,139	118	121	130	10	123.00
	X7-SB643-0203	10/3/2012	10/4/2012	Pb	140,141,142	69	77	93	10	79.67
	X7-SB643-0304	10/3/2012	10/4/2012	Pb	143,144,145	22	23	14	10	19.67
X7-SB644	X7-SS644-0001	10/3/2012	10/4/2012	Pb	146,148,149	250	252	251	10	251.00
	X7-SS644-0102	10/3/2012	10/4/2012	Pb	150,151,152	220	272	273	10	255.00
	X7-SB644-0203	10/3/2012	10/4/2012	Pb	153,154,155	842	896	816	10	851.33
	X7-SB644-0304	10/3/2012	10/4/2012	Pb	156,157,158	21	14	17	10	17.33
X7-SB645	X7-SS645-0001	10/3/2012	10/52012	Pb	5,6,7	108	127	110	10	115.00
	X7-SS645-0102	10/3/2012	10/52012	Pb	8,9,10	307	281	319	10	302.33
	X7-SB645-0203	10/3/2012	10/52012	Pb	11,12,13	49	30	36	10	38.33
	X7-SB645-0304	10/3/2012	10/52012	Pb	14,15,16	15	12	23	10	16.67
X7-SB646	X7-SS646-0001	10/3/2012	10/4/2012	Pb	171,172,173	104	106	100	10	103.33
	X7-SS646-0102	10/3/2012	10/4/2012	Pb	174,175,176	185	170	156	10	170.33
	X7-SB646-0203	10/3/2012	10/4/2012	Pb	177,178,179	35	26	29	10	30.00
	X7-SB646-0304	10/3/2012	10/4/2012	Pb	180,181,182	20	24	19	10	21.00
X7-SB647	X7-SS647-0001	10/3/2012	10/4/2012	Pb	159,160,161	114	167	113	10	131.33
	X7-SS647-0102	10/3/2012	10/4/2012	Pb	162,163,164	662	532	432	10	542.00
	X7-SB647-0203	10/3/2012	10/4/2012	Pb	165,166,167	22	22	21	10	21.67
	X7-SB647-0304	10/3/2012	10/4/2012	Pb	168,169,170	21	20	24	10	21.67
X7-SB648	X7-SS648-0001	10/3/2012	10/4/2012	Pb	183,184,185	169	153	158	10	160.00
	X7-SS648-0102	10/3/2012	10/4/2012	Pb	186,187,188	317	428	440	10	395.00
	X7-SB648-0203	10/3/2012	10/4/2012	Pb	189,190,191	33	22	24	10	26.33
	X7-SB648-0304	10/3/2012	10/4/2012	Pb	192,193,194	10	17	14	10	13.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB649	X7-SS649-0001	10/3/2012	10/4/2012	Pb	195,196,197	150	153	153	10	152.00
	X7-SS649-0102	10/3/2012	10/4/2012	Pb	198,199,200	327	271	308	10	302.00
	X7-SB649-0203	10/3/2012	10/4/2012	Pb	201,202,203	24	32	22	10	26.00
	X7-SB649-0304	10/3/2012	10/4/2012	Pb	204,205,206	22	16	28	10	22.00
X7-SB650	X7-SS650-0001	10/3/2012	10/4/2012	Pb	207,208,209	118	123	127	10	122.67
	X7-SS650-0102	10/3/2012	10/4/2012	Pb	210,211,212	32	37	34	10	34.33
	X7-SB650-0203	10/3/2012	10/4/2012	Pb	213,214,215	11	16	13	10	13.33
	X7-SB650-0304	10/3/2012	Not Analyzed							
X7-SB651	X7-SS651-0001	10/3/2012	10/5/2012	Pb	17,18,19	109	128	106	10	114.33
	X7-SS651-0102	10/3/2012	10/5/2012	Pb	20,21,22	118	140	122	10	126.67
	X7-SB651-0203	10/3/2012	10/5/2012	Pb	23,24,25	65	47	50	10	54.00
	X7-SB651-0304	10/3/2012	10/5/2012	Pb	26,27,28	19	23	18	10	20.00
X7-SB652	X7-SS652-0001	10/3/2012	10/5/2012	Pb	29,30,31	202	188	196	10	195.33
	X7-SS652-0102	10/3/2012	10/5/2012	Pb	32,33,34	20	13	20	10	17.67
	X7-SB652-0203	10/3/2012	10/5/2012	Pb	35,36,37	14	20	19	10	17.67
	X7-SB652-0304	10/3/2012	Not Analyzed							
X7-SB653	X7-SS653-0001	10/3/2012	10/5/2012	Pb	38,39,40	125	119	144	10	129.33
	X7-SS653-0102	10/3/2012	10/5/2012	Pb	41,42,43	75	56	61	10	64.00
	X7-SB653-0203	10/3/2012	10/5/2012	Pb	44,45,46	116	115	98	10	109.67
	X7-SB653-0304	10/3/2012	10/5/2012	Pb	47,48,49	18	19	17	10	18.00
X7-SB654	X7-SS654-0001	10/3/2012	10/5/2012	Pb	50,51,52	56	71	63	10	63.33
	X7-SS654-0102	10/3/2012	10/5/2012	Pb	53,54,55	114	107	98	10	106.33
	X7-SB654-0203	10/3/2012	10/5/2012	Pb	56,57,58	22	46	39	10	35.67
	X7-SB654-0304	10/3/2012	10/5/2012	Pb	59,60,61	12	20	12	10	14.67
X7-SB655	X7-SS655-0001	10/3/2012	10/5/2012	Pb	62,63,64	176	198	186	10	186.67
	X7-SS655-0102	10/3/2012	10/5/2012	Pb	65,66,67	626	648	574	10	616.00
	X7-SB655-0203	10/3/2012	10/5/2012	Pb	68,69,70	115	98	112	10	108.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB655-0304	10/3/2012	10/5/2012	Pb	71,72,73	20	21	18	10	19.67
X7-SB656	X7-SS656-0001	10/3/2012	10/5/2012	Pb	74,75,76	120	151	120	10	130.33
	X7-SS656-0102	10/3/2012	10/5/2012	Pb	77,78,79	164	150	122	10	145.33
	X7-SB656-0203	10/3/2012	10/5/2012	Pb	80,81,82	17	15	19	10	17.00
	X7-SB656-0304	10/3/2012	10/5/2012	Pb	83,84,85	12	25	16	10	17.67
X7-SB657	X7-SS657-0001	10/3/2012	10/5/2012	Pb	86,87,88	397	452	389	10	412.67
	X7-SS657-0102	10/3/2012	10/5/2012	Pb	89,90,91	242	162	106	10	170.00
	X7-SB657-0203	10/3/2012	10/5/2012	Pb	92,93,94	287	245	277	10	269.67
	X7-SB657-0304	10/3/2012	10/5/2012	Pb	95,96,97	334	390	309	10	344.33
	X7-SB657-0405	10/6/2012	10/72012	Pb	17,18,19	87	62	60	10	69.67
	X7-SB657-0506	10/6/2012	10/72012	Pb	20,21,22	15	15	21	10	17.00
X7-SB658	X7-SS658-0001	10/3/2012	10/5/2012	Pb	98,99,100	578	651	593	10	607.33
	X7-SS658-0102	10/3/2012	10/5/2012	Pb	101,102,103	1254	1449	1049	10	1250.67
	X7-SB658-0203	10/3/2012	10/5/2012	Pb	104,105,106	45	59	56	10	53.33
	X7-SB658-0304	10/3/2012	10/5/2012	Pb	107,108,109	63	58	48	10	56.33
X7-SB659	X7-SS659-0001	10/3/2012	10/5/2012	Pb	110,111,112	197	150	167	10	171.33
	X7-SS659-0102	10/3/2012	10/5/2012	Pb	113,114,115	73	100	111	10	94.67
	X7-SB659-0203	10/3/2012	10/5/2012	Pb	116,117,118	10	18	10	10	12.67
	X7-SB659-0304	10/3/2012	Not Analyzed							
X7-SB660	X7-SS660-0001	10/3/2012	10/5/2012	Pb	119,120,121	256	220	309	10	261.67
	X7-SS660-0102	10/3/2012	10/5/2012	Pb	122,123,124	3538	726	821	10	1695.00
	X7-SS660-0102	10/3/2012	10/5/2012	Pb	128,129,130	820	728	736	10	761.33
	X7-SB660-0203	10/3/2012	10/5/2012	Pb	125,126,127	10	18	10	10	12.67
	X7-SB660-0304	10/3/2012	10/5/2012	Pb	131,132,133	14	12	17	10	14.33
X7-SB661	X7-SS661-0001	10/3/2012	10/5/2012	Pb	159,160,161	135	175	199	10	169.67
	X7-SS661-0102	10/3/2012	10/5/2012	Pb	162,163,164	12	14	11	10	12.33
	X7-SB661-0203	10/3/2012	10/5/2012	Pb	165,166,167	11	13	16	10	13.33

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB661-0304	10/3/2012	Not Analyzed							
X7-SB662	X7-SS662-0001	10/3/2012	10/5/2012	Pb	143,145,146	268	187	217	10	224.00
	X7-SS662-0102	10/3/2012	10/5/2012	Pb	147,148,149	10	15	11	10	12.00
	X7-SB662-0203	10/3/2012	10/5/2012	Pb	150,151,152	19	19	15	10	17.67
	X7-SB662-0304	10/3/2012	Not Analyzed							
X7-SB663	X7-SS663-0001	10/3/2012	10/5/2012	Pb	134,135,136	109	86	37	10	77.33
	X7-SS663-0102	10/3/2012	10/5/2012	Pb	137,138,139	10	11	15	10	12.00
	X7-SB663-0203	10/3/2012	10/5/2012	Pb	140,141,142	12	10	11	10	11.00
	X7-SB663-0304	10/3/2012	Not Analyzed							
X7-SB664	X7-SS664-0001	10/4/2012	10/5/2012	Pb	153,154,155	10	10	10	10	10.00
	X7-SS664-0102	10/4/2012	10/5/2012	Pb	156,157,158	12	10		10	11.00
	X7-SB664-0203	10/4/2012	Not Analyzed							
	X7-SB664-0304	10/4/2012	Not Analyzed							
X7-SB665	X7-SS665-0001	10/4/2012	10/5/2012	Pb	168,169,170	11	13	14	10	12.67
	X7-SS665-0102	10/4/2012	10/5/2012	Pb	171,172,173	11	15	13	10	13.00
	X7-SB665-0203	10/4/2012	Not Analyzed							
	X7-SB665-0304	10/4/2012	Not Analyzed							
X7-SB666	X7-SS666-0001	10/4/2012	10/5/2012	Pb	174,175,176	10	11	12	10	11.00
	X7-SS666-0102	10/4/2012	10/5/2012	Pb	177,178,179	17	17	20	10	18.00
	X7-SB666-0203	10/4/2012	Not Analyzed							
	X7-SB666-0304	10/4/2012	Not Analyzed							
X7-SB667	X7-SS667-0001	10/4/2012	10/5/2012	Pb	192,193,194	58	50	66	10	58.00
	X7-SS667-0102	10/4/2012	10/5/2012	Pb	195,196,197	743	931	880	10	851.33
	X7-SB667-0203	10/4/2012	10/5/2012	Pb	198,199,200	21	21	14	10	18.67
	X7-SB667-0304	10/4/2012	10/5/2012	Pb	201,202,203	22	18	25	10	21.67
X7-SB668	X7-SS668-0001	10/4/2012	10/5/2012	Pb	180,181,182	230	244	213	10	229.00
	X7-SS668-0102	10/4/2012	10/5/2012	Pb	183,184,185	201	177	182	10	186.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB668-0203	10/4/2012	10/5/2012	Pb	186,187,188	16	13	18	10	15.67
	X7-SB668-0304	10/4/2012	10/5/2012	Pb	189,190,191	25	20	23	10	22.67
X7-SB669	X7-SS669-0001	10/4/2012	10/5/2012	Pb	204,205,206	317	306	360	10	327.67
	X7-SS669-0102	10/4/2012	10/5/2012	Pb	207,208,209	24	26	30	10	26.67
	X7-SB669-0203	10/4/2012	10/5/2012	Pb	210,211,212	19	22	28	10	23.00
	X7-SB669-0304	10/4/2012	10/5/2012	Pb	213,214,215	15	19	16	10	16.67
X7-SB670	X7-SS670-0001	10/4/2012	10/5/2012	Pb	58,59,60	2203	1817	3397	10	2472.33
	X7-SS670-0102	10/4/2012	10/5/2012	Pb	61,62,63	2731	3226	3036	10	2997.67
	X7-SB670-0203	10/4/2012	10/5/2012	Pb	64,65,66	16	12	15	10	14.33
	X7-SB670-0304	10/4/2012	10/5/2012	Pb	67,68,69	19	20	20	10	19.67
X7-SB671	X7-SS671-0001	10/4/2012	10/5/2012	Pb	70,71,72	2569	2459	2773	10	2600.33
	X7-SS671-0102	10/4/2012	10/5/2012	Pb	73,74,75	31	32	21	10	28.00
	X7-SB671-0203	10/4/2012	10/5/2012	Pb	76,77,78	12	11	12	10	11.67
	X7-SB671-0304	10/4/2012	Not Analyzed							
X7-SB672	X7-SS672-0001	10/4/2012	10/5/2012	Pb	79,80,81	531	387	361	10	426.33
	X7-SS672-0102	10/4/2012	10/5/2012	Pb	82,83,84	13	14	14	10	13.67
	X7-SB672-0203	10/4/2012	10/5/2012	Pb	85,86,87	20	13	17	10	16.67
	X7-SB672-0304	10/4/2012	Not Analyzed							
X7-SB673	X7-SS673-0001	10/4/2012	10/5/2012	Pb	94,95,96	1390	2452	1344	10	1728.67
	X7-SS673-0102	10/4/2012	10/5/2012	Pb	97,98,99	20	18	14	10	17.33
	X7-SB673-0203	10/4/2012	10/5/2012	Pb	100,101,102	15	15	13	10	14.33
	X7-SB673-0304	10/4/2012	Not Analyzed							
X7-SB674	X7-SS674-0001	10/4/2012	10/72012	Pb	23,24,25	722	813	748	10	761.00
	X7-SS674-0102	10/4/2012	10/72012	Pb	26,27,28	50	27	39	10	38.67
	X7-SB674-0203	10/4/2012	10/72012	Pb	29,30,31	10	14	20	10	14.67
	X7-SB674-0304	10/4/2012	Not Analyzed							
	X7-SS675-0001	10/4/2012	10/5/2012	Pb	11,12,13	882	715	736	10	777.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB675	X7-SS675-0102	10/4/2012	10/5/2012	Pb	14,15,16	456	513	495	10	488.00
	X7-SB675-0203	10/4/2012	10/5/2012	Pb	17,18,19	27	29	33	10	29.67
	X7-SB675-0304	10/4/2012	10/5/2012	Pb	20,21,22	16	14	19	10	16.33
X7-SB676	X7-SS676-0001	10/4/2012	10/5/2012	Pb	23,24,25,	857	837	931	10	875.00
	X7-SS676-0102	10/4/2012	10/5/2012	Pb	26,27,28	375	332	441	10	382.67
	X7-SB676-0203	10/4/2012	10/5/2012	Pb	29,30,31	20	12	21	10	17.67
	X7-SB676-0304	10/4/2012	10/5/2012	Pb	32,33,34	23	20	13	10	18.67
X7-SB677	X7-SS677-0001	10/4/2012	10/5/2012	Pb	35,36,37	369	363	363	10	365.00
	X7-SS677-0102	10/4/2012	10/5/2012	Pb	38,39,40	791	675	550	10	672.00
	X7-SB677-0203	10/4/2012	10/5/2012	Pb	41,42,43	808	1020	1128	10	985.33
	X7-SB677-0304	10/4/2012	10/5/2012	Pb	44,45,46	33	31	35	10	33.00
X7-SB678	X7-SS678-0001	10/4/2012	10/5/2012	Pb	47,48,49	115	125	115	10	118.33
	X7-SS678-0102	10/4/2012	10/5/2012	Pb	50,51,52	455	500	395	10	450.00
	X7-SB678-0203	10/4/2012	10/5/2012	Pb	53,54,55	13	28	28	10	23.00
	X7-SB678-0304	10/4/2012	10/5/2012	Pb	56,57,58	16	17	12	10	15.00
X7-SB679	X7-SS679-0001	10/6/2012	10/72012	Pb	32,33,34	230	230	231	10	230.33
	X7-SS679-0102	10/6/2012	10/72012	Pb	35,36,37	498	528	532	10	519.33
	X7-SB679-0203	10/6/2012	10/72012	Pb	38,39,40	36	47	41	10	41.33
	X7-SB679-0304	10/6/2012	10/72012	Pb	41,42,43	20	14	21	10	18.33
X7-SB680	X7-SS680-0001	10/6/2012	10/72012	Pb	44,45,46	138	155	149	10	147.33
	X7-SS680-0102	10/6/2012	10/72012	Pb	47,48,49	217	247	221	10	228.33
	X7-SB680-0203	10/6/2012	10/72012	Pb	50,51,52	23	20	13	10	18.67
	X7-SB680-0304	10/6/2012	10/72012	Pb	53,54,55	11	12	11	10	11.33
X7-SB681	X7-SS681-0001	10/6/2012	10/72012	Pb	56,57,58	116	140	161	10	139.00
	X7-SS681-0102	10/6/2012	10/72012	Pb	59,60,61	52	43	57	10	50.67
	X7-SB681-0203	10/6/2012	10/72012	Pb	62,63,64	12	24	14	10	16.67
	X7-SB681-0304	10/6/2012	Not Analyzed							

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB682	X7-SS682-0001	10/6/2012	10/72012	Pb	65,66,67	132	209	163	10	168.00
	X7-SS682-0102	10/6/2012	10/72012	Pb	68,69,70	15	20	14	10	16.33
	X7-SB682-0203	10/6/2012	10/72012	Pb	71,72,73	15	22	18	10	18.33
	X7-SB682-0304	10/6/2012	Not Analyzed							
X7-SB683	X7-SS683-0001	10/6/2012	10/72012	Pb	74,75,76	84	82	93	10	86.33
	X7-SS683-0102	10/6/2012	10/72012	Pb	77,78,79	20	23	13	10	18.67
	X7-SB683-0203	10/6/2012	Not Analyzed							
	X7-SB683-0304	10/6/2012	Not Analyzed							
X7-SB684	X7-SS684-0001	10/4/2012	10/5/2012	Pb	88,89,90	12	10	12	10	11.33
	X7-SS684-0102	10/4/2012	10/5/2012	Pb	91,92,93	12	10	17	10	13.00
	X7-SB684-0203	10/4/2012	Not Analyzed							
	X7-SB684-0304	10/4/2012	Not Analyzed							
X7-SB685	X7-SS685-0001	10/4/2012	10/5/2012	Pb	112,113,114	12	13	13	10	12.67
	X7-SS685-0102	10/4/2012	10/5/2012	Pb	115,116,117	17	13	15	10	15.00
	X7-SB685-0203	10/4/2012	Not Analyzed							
	X7-SB685-0304	10/4/2012	Not Analyzed							
X7-SB686	X7-SS686-0001	10/4/2012	10/5/2012	Pb	103,104,105	389	453	404	10	415.33
	X7-SS686-0102	10/4/2012	10/5/2012	Pb	106,107,108	100	81	103	10	94.67
	X7-SB686-0203	10/4/2012	10/5/2012	Pb	109,110,111	27	33	34	10	31.33
	X7-SB686-0304	10/4/2012	Not Analyzed							
X7-SB687	X7-SS687-0001	10/4/2012	10/72012	Pb	80,81,82	250	235	254	10	246.33
	X7-SS687-0102	10/4/2012	10/72012	Pb	83,84,85	85	108	122	10	105.00
	X7-SB687-0203	10/4/2012	10/72012	Pb	86,87,88	13	15	19	10	15.67
	X7-SB687-0304	10/4/2012	Not Analyzed							
X7-SB688	X7-SS688-0001	10/8/2012	10/9/2012	Pb	22,23,24	16	13	16	10	15.00
	X7-SS688-0102	10/8/2012	10/9/2012	Pb	25,26,27	28	26	30	10	28.00
	X7-SB688-0203	10/8/2012	Not Analyzed							

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB688-0304	10/8/2012	Not Analyzed							
X7-SB689	X7-SS689-0001	10/8/2012	10/9/2012	Pb	28,29,30	22	14	15	10	17.00
	X7-SS689-0102	10/8/2012	10/9/2012	Pb	31,32,33	19	22	22	10	21.00
	X7-SB689-0203	10/8/2012	10/9/2012	Pb	34,35,36	24	20	21	10	21.67
	X7-SB689-0304	10/8/2012	Not Analyzed							
X7-SB690	X7-SS690-0001	10/8/2012	10/9/2012	Pb	5,6,7	25	16	21	10	20.67
	X7-SS690-0102	10/8/2012	10/9/2012	Pb	8,9,10	49	74	29	10	50.67
	X7-SB690-0203	10/8/2012	Not Analyzed							
	X7-SB690-0304	10/8/2012	Not Analyzed							
X7-SB691	X7-SS691-0001	10/8/2012	10/9/2012	Pb	37,38,39	24	24	23	10	23.67
	X7-SS691-0102	10/8/2012	10/9/2012	Pb	40,41,42	286	320	305	10	303.67
	X7-SB691-0203	10/8/2012	10/9/2012	Pb	43,44,45	179	174	163	10	172.00
	X7-SB691-0304	10/8/2012	10/9/2012	Pb	46,47,48	27	19	13	10	19.67
X7-SB692	X7-SS692-0001	10/8/2012	10/9/2012	Pb	49,50,51	2965	1124	981	10	1690.00
	X7-SS692-0102	10/8/2012	10/9/2012	Pb	52,53,54	404	431	417	10	417.33
	X7-SB692-0203	10/8/2012	10/9/2012	Pb	55,56,57	24	29	19	10	24.00
	X7-SB692-0304	10/8/2012	10/9/2012	Pb	58,59,60	17	19	30	10	22.00
X7-SB693	X7-SS693-0001	10/8/2012	10/9/2012	Pb	61,62,63	47	47	57	10	50.33
	X7-SS693-0102	10/8/2012	10/9/2012	Pb	64,65,66	16	26	17	10	19.67
	X7-SB693-0203	10/8/2012	Not Analyzed							
	X7-SB693-0304	10/8/2012	Not Analyzed							
X7-SB694	X7-SS694-0001	10/8/2012	10/9/2012	Pb	67,68,69	133	152	151	10	145.33
	X7-SS694-0102	10/8/2012	10/9/2012	Pb	70,71,72	38	38	39	10	38.33
	X7-SB694-0203	10/8/2012	10/9/2012	Pb	73,74,75	10	10	10	10	10.00
	X7-SB694-0304	10/8/2012	Not Analyzed							
X7-SB695	X7-SS695-0001	10/8/2012	10/9/2012	Pb	76,77,78	84	82	92	10	86.00
	X7-SS695-0102	10/8/2012	10/9/2012	Pb	79,80,81	34	37	33	10	34.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB695-0203	10/8/2012	Not Analyzed							
	X7-SB695-0304	10/8/2012	Not Analyzed							
X7-SB696	X7-SS696-0001	10/8/2012	10/9/2012	Pb	82,83,84	78	98	92	10	89.33
	X7-SS696-0102	10/8/2012	10/9/2012	Pb	85,86,87	732	733	836	10	767.00
	X7-SB696-0203	10/8/2012	10/9/2012	Pb	88,89,90	124	109	133	10	122.00
	X7-SB696-0304	10/8/2012	10/9/2012	Pb	91,92,93	18	11	15	10	14.67
X7-SB697	X7-SS697-0001	10/8/2012	10/9/2012	Pb	94,95,96	94	88	104	10	95.33
	X7-SS697-0102	10/8/2012	10/9/2012	Pb	97,98,99	20	18	18	10	18.67
	X7-SB697-0203	10/8/2012	Not Analyzed							
	X7-SB697-0304	10/8/2012	Not Analyzed							
X7-SB698	X7-SS698-0001	10/8/2012	10/9/2012	Pb	100,101,102	22	25	23	10	23.33
	X7-SS698-0102	10/8/2012	10/9/2012	Pb	103,104,105	19	11	14	10	14.67
	X7-SB698-0203	10/8/2012	Not Analyzed							
	X7-SB698-0304	10/8/2012	Not Analyzed							
X7-SB699	X7-SS699-0001	10/8/2012	10/9/2012	Pb	106,107,108	49	43	45	10	45.67
	X7-SS699-0102	10/8/2012	10/9/2012	Pb	109,110,111	44	27	19	10	30.00
	X7-SB699-0203	10/8/2012	Not Analyzed							
	X7-SB699-0304	10/8/2012	Not Analyzed							
X7-SB700	X7-SS700-0001	10/8/2012	10/9/2012	Pb	112,113,114	23	24	25	10	24.00
	X7-SS700-0102	10/8/2012	10/9/2012	Pb	115,116,117	12	14	14	10	13.33
	X7-SB700-0203	10/8/2012	Not Analyzed							
	X7-SB700-0304	10/8/2012	Not Analyzed							
X7-SB701	X7-SS701-0001	10/8/2012	10/9/2012	Pb	11,12,13	2836	3287	2938	10	3020.33
	X7-SS701-0102	10/8/2012	10/9/2012	Pb	14,15,16	355	312	312	10	326.33
	X7-SB701-0203	10/8/2012	10/9/2012	Pb	17,18,19	13	16	12	10	13.67
	X7-SB701-0304	10/8/2012	10/9/2012	Pb	20,21,22	43	33	45	10	40.33
	X7-SS702-0001	10/8/2012	10/9/2012	Pb	118,119,120	30	65	43	10	46.00

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
X7-SB702	X7-SS702-0102	10/8/2012	10/9/2012	Pb	121,122,123	38	41	39	10	39.33
	X7-SB702-0203	10/8/2012	Not Analyzed							
	X7-SB702-0304	10/8/2012	Not Analyzed							
X7-SB703	X7-SS703-0001	10/8/2012	10/9/2012	Pb	130,131,132	62	69	77	10	69.33
	X7-SS703-0102	10/8/2012	10/9/2012	Pb	133,134,135	22	22	19	10	21.00
	X7-SB703-0203	10/8/2012	Not Analyzed							
	X7-SB703-0304	10/8/2012	Not Analyzed							

Indicates XRF result greater than field screening level of 125 ppm.

XRF QC

9/8/2012			
	1	STD	232
	2	Blank	-3
	3	2702 (132.8)	120
	4	2781 (202.1)	177
	29	STD	223
	186	Blank	-1
	187	2702 (132.8)	123
	188	2781 (202.1)	164
9/92012			
	1	STD	219
	2	Blank	4
	3	2702 (132.8)	113
	4	2781 (202.1)	190
	96	STD	221
	196	STD	221
	349	Blank	-1
	350	2702 (132.8)	105
	351	2781 (202.1)	160
9/10/2012			
	1	STD	220
	2	Blank	6
	3	2702 (132.8)	122
	4	2781 (202.1)	180
	119	STD	225
	192	STD	222

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
204	Blank	-4								
205	2702 (132.8)	93								
206	2781 (202.1)	190								
9/11/2012										
1	STD	221								
2	Blank	1								
3	2702 (132.8)	111								
4	2781 (202.1)	155								
	STD	223								
198	STD	225								
345	STD	221								
463	Blank	2								
10/3/2012										
1	STD	237								
2	Blank	7								
3	2702 (132.8)	120								
4	2781 (202.1)	163								
74	Blank	7								
75	2702 (132.8)	137								
76	2781 (202.1)	175								
10/4/2012										
1	STD	240								
2	Blank	7								
3	2702 (132.8)	118								
4	2781 (202.1)	165								
147	STD	230								
242	Blank	7								
243	STD	239								
244	2702 (132.8)	112								
245	2781 (202.1)	179								
10/5/2012										
1	STD	237								
2	Blank	8								
3	2702 (132.8)	128								
4	2781 (202.1)	174								
144	STD	239								
216	Blank	7								
217	2702 (132.8)	134								
218	2781 (202.1)	186								

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
10/6/2012										
1	STD	239								
2	Blank	8								
3	2702 (132.8)	127								
4	2781 (202.1)	178								
	STD									
	Blank									
	2702 (132.8)									
	2781 (202.1)									
10/7/2012										
1	STD	238								
2	Blank	7								
3	2702 (132.8)	129								
4	2781 (202.1)	183								
10/9/2012										
1	STD	238								
2	Blank	8								
3	2702 (132.8)	120								
4	2781 (202.1)	178								
136	Blank	8								
137	2702 (132.8)	133								
138	2781 (202.1)	183								

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
Northernmost Area										
X7-SB055	X7-SB055-0203	9/8/2012	9/9/2012	Pb	59,60,61	25	21	38	10	28.00
	X7-SB055-0304	9/8/2012	9/9/2012	Pb	62,63,64	13	14	16	10	14.33
X7-SB174	X7-SB174-0203	9/8/2012	9/10/2012	Pb	5,6,7	38	33	25	10	32.00
	X7-SB174-0304	9/8/2012	9/10/2012	Pb	8,9,10	5	33	14	10	17.33
X7-SB190	X7-SB190-0203	9/8/2012	9/10/2012	Pb	11,12,13	8	13	9	10	10.00
	X7-SB190-0304	9/8/2012	9/10/2012	Pb	14,15,16	9	3	9	10	7.00
X7-SB274	X7-SB274-0203	9/8/2012	9/9/2012	Pb	65,66,67	44	48	57	10	49.67
	X7-SB274-0304	9/8/2012	9/9/2012	Pb	68,69,70	37	34	35	10	35.33
X7-SB275	X7-SB275-0203	9/8/2012	9/10/2012	Pb	17,18,19	78	64	54	10	65.33
	X7-SB275-0304	9/8/2012	9/10/2012	Pb	20,21,22	21	29	29	10	26.33
X7-SB277	X7-SB277-0203	9/8/2012	9/10/2012	Pb	23,24,25	24	17	21	10	20.67
	X7-SB277-0304	9/8/2012	9/10/2012	Pb	26,27,28	7	12	11	10	10.00
X7-SB278	X7-SB278-0203	9/8/2012	9/9/2012	Pb	71,72,73	19	21	12	10	17.33
	X7-SB278-0304	9/8/2012	9/9/2012	Pb	74,75,76	11	10	16	10	12.33
X7-SB283	X7-SB283-0203	9/8/2012	9/10/2012	Pb	29,30,31	68	59	52	10	59.67
	X7-SB283-0304	9/8/2012	9/10/2012	Pb	32,33,34	4	16	10	10	10.00
X7-SB285	X7-SB285-0203	9/8/2012	9/10/2012	Pb	35,36,37	3	ND	1	10	3.00
	X7-SB285-0304	9/8/2012	9/10/2012	Pb	38,39,40	16	16	24	10	18.67
X7-SB342	X7-SB342-0203	9/8/2012	9/10/2012	Pb	41,42,43	7	6	12	10	8.33
	X7-SB342-0304	9/8/2012	9/10/2012	Pb	44,45,46	25	15	3	10	14.33
X7-SB567	X7-SS567-0001	9/9/2012	9/9/2012	Pb	271,272,273	142	92	100	10	111.33
	X7-SS567-0102	9/9/2012	9/9/2012	Pb	274,275,276	40	33	35	10	36.00
	X7-SB567-0203	9/9/2012	NOT ANALYZED							
	X7-SB567-0304	9/9/2012	NOT ANALYZED							
X7-SB568	X7-SS568-0001	9/9/2012	9/9/2012	Pb	180,181,182	247	231	265	10	247.67
	X7-SS568-0102	9/9/2012	9/9/2012	Pb	183,184,185	100	88	89	10	92.33
	X7-SB568-0203	9/9/2012	9/9/2012	Pb	313,314,315	16	23	20	10	19.67

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB568-0304	9/9/2012	9/9/2012	Pb	316,317,318	16	16	22	10	18.00
X7-SB569	X7-SS569-0001	9/9/2012	9/9/2012	Pb	277,278,279	536	675	588	10	599.67
	X7-SS569-0102	9/9/2012	9/9/2012	Pb	280,281,282	111	109	108	10	109.33
	X7-SB569-0203	9/9/2012	9/10/2012	Pb	47,48,49	20	22	14	10	18.67
	X7-SB569-0304	9/9/2012	9/10/2012	Pb	50,51,52	9	16	12	10	12.33
X7-SB570	X7-SS570-0001	9/9/2012	9/9/2012	Pb	192,193,194	228	232	299	10	253.00
	X7-SS570-0102	9/9/2012	9/9/2012	Pb	195,197,198	35	40	31	10	35.33
	X7-SB570-0203	9/9/2012	9/9/2012	Pb	319,320,321	12	31	14	10	19.00
	X7-SB570-0304	9/9/2012	9/9/2012	Pb	322,323,324	16	14	2	10	10.67
X7-SB571	X7-SS571-0001	9/9/2012	9/9/2012	Pb	199,200,201	96	96	97	10	96.33
	X7-SS571-0102	9/9/2012	9/9/2012	Pb	202,203,204	17	13	12	10	14.00
	X7-SB571-0203	9/9/2012	NOT ANALYZED							
	X7-SB571-0304	9/9/2012	NOT ANALYZED							
X7-SB572	X7-SS572-0001	9/9/2012	9/9/2012	Pb	205,206,207	49	32	39	10	40.00
	X7-SS572-0102	9/9/2012	9/9/2012	Pb	208,209,210	36	70	68	10	58.00
	X7-SB572-0203	9/9/2012	NOT ANALYZED							
	X7-SB572-0304	9/9/2012	NOT ANALYZED							
X7-SB573	X7-SS573-0001	9/8/2012	9/9/2012	Pb	53,54,55	65	55	80	10	66.67
	X7-SS573-0102	9/8/2012	9/9/2012	Pb	56,57,58	67	63	67	10	65.67
	X7-SB573-0203	9/8/2012	NOT ANALYZED							
	X7-SB573-0304	9/8/2012	NOT ANALYZED							
X7-SB574	X7-SS574-0001	9/8/2012	9/9/2012	Pb	59,60,61	77	81	72	10	76.67
	X7-SS574-0102	9/8/2012	9/9/2012	Pb	62,63,64	33	31	55	10	39.67
	X7-SB574-0203	9/8/2012	NOT ANALYZED							
	X7-SB574-0304	9/8/2012	NOT ANALYZED							
X7-SB575	X7-SS575-0001	9/9/2012	9/9/2012	Pb	211,212,213	107	104	100	10	103.67
	X7-SS575-0102	9/9/2012	9/9/2012	Pb	214,215,216	27	20	13	10	20.00

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
	X7-SB575-0203	9/9/2012	NOT ANALYZED							
	X7-SB575-0304	9/9/2012	NOT ANALYZED							
X7-SB576	X7-SS576-0001	9/9/2012	9/9/2012	Pb	217,218,219	96	127	98	10	107.00
	X7-SS576-0102	9/9/2012	9/9/2012	Pb	220,221,222	30	26	31	10	29.00
	X7-SB576-0203	9/9/2012	NOT ANALYZED							
	X7-SB576-0304	9/9/2012	NOT ANALYZED							
X7-SB577	X7-SS577-0001	9/9/2012	9/9/2012	Pb	325,326,327	131	118	130	10	126.33
	X7-SS577-0102	9/9/2012	9/9/2012	Pb	328,329,330	31	22	27	10	26.67
	X7-SB577-0203	9/9/2012	NOT ANALYZED							
	X7-SB577-0304	9/9/2012	NOT ANALYZED							
X7-SB607	X7-SS607-0001	9/10/2012	9/11/2012	Pb	128,129,130	43	29	34	10	35.33
	X7-SS607-0102	9/10/2012	9/11/2012	Pb	131,132,133	26	29	20	10	25.00
	X7-SS607-0203	9/10/2012	NOT ANALYZED							
	X7-SS607-0304	9/10/2012	NOT ANALYZED							
X7-SB608	X7-SS608-0001	9/10/2012	9/11/2012	Pb	122,123,124	173	154	154	10	160.33
	X7-SS608-0102	9/10/2012	9/11/2012	Pb	125,126,127	46	25	41	10	37.33
	X7-SS608-0203	9/10/2012	NOT ANALYZED							
	X7-SS608-0304	9/10/2012	NOT ANALYZED							
X7-SB609	X7-SS609-0001	9/10/2012	9/11/2012	Pb	134,135,136	32	36	35	10	34.33
	X7-SS609-0102	9/10/2012	9/11/2012	Pb	137,138,139	17	10	24	10	17.00
	X7-SS609-0203	9/10/2012	NOT ANALYZED							
	X7-SS609-0304	9/10/2012	NOT ANALYZED							

Indicates XRF result greater thanfield screening level of 125 ppm.

XRF QC

9/8/2012		
1	STD	232
2	Blank	-3
3	2702 (132.8)	120

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
4	2781 (202.1)		177							
29	STD		223							
186	Blank		-1							
187	2702 (132.8)		123							
188	2781 (202.1)		164							
9/92012										
1	STD		219							
2	Blank		4							
3	2702 (132.8)		113							
4	2781 (202.1)		190							
96	STD		221							
196	STD		221							
349	Blank		-1							
350	2702 (132.8)		105							
351	2781 (202.1)		160							
9/10/2012										
1	STD		220							
2	Blank		6							
3	2702 (132.8)		122							
4	2781 (202.1)		180							
119	STD		225							
192	STD		222							
204	Blank		-4							
205	2702 (132.8)		93							
206	2781 (202.1)		190							

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
SOUTHERNMOST AREA										
X7-SB038	X7-SB038-0203	9/8/2012	9/9/2012	Pb	50,51,52	94	79	96	10	89.67
	X7-SB038-0304	9/8/2012	9/92012	Pb	5,6,7	30	50	34	10	38.00
X7-SB039	X7-SB039-0203	9/8/2012	9/92012	Pb	53,54,55	181	168	176	10	175.00
	X7-SB039-0304	9/8/2012	9/92012	Pb	56,57,58	164	184	151	10	166.33
X7-SB310	X7-SB310-0304	9/8/2012	9/8/2012	Pb	180,181,182	171	192	198	10	187.00
	X7-SB310-0405	9/8/2012	9/8/2012	Pb	183,184,185	133	132	112	10	125.67
X7-SB312	X7-SB312-0203	9/8/2012	9/9/2012	Pb	108,109,110	41	53	73	10	55.67
	X7-SB312-0304	9/8/2012	9/9/2012	Pb	111,112,113	17	21	22	10	20.00
X7-SB313	X7-SB313-0304	9/8/2012	9/9/2012	Pb	114,115,116	20	22	14	10	18.67
	X7-SB313-0405	9/8/2012	9/9/2012	Pb	117,118,119	27	14	14	10	18.33
X7-SB371	X7-SS371-0102	9/8/2012	9/9/2012	Pb	89,90,91	147	148	103	10	132.67
	X7-SS371-0203	9/8/2012	9/9/2012	Pb	92,93,94	11	25	10	10	15.33
X7-SB578	X7-SS578-0001	9/8/2012	9/9/2012	Pb	162,163,164	8	20	15	10	14.33
	X7-SS578-0102	9/8/2012	9/9/2012	Pb	165,166,167	18	6	5	10	9.67
	X7-SS578-0203	9/8/2012	Not Analyzed							
	X7-SS578-0304	9/8/2012	Not Analyzed							
X7-SB579	X7-SS579-0001	9/8/2012	9/9/2012	Pb	168,169,170	24	22	23	10	23.00
	X7-SS579-0102	9/8/2012	9/9/2012	Pb	171,172,173	15	5	8	10	9.33
	X7-SS579-0203	9/8/2012	Not Analyzed							
	X7-SS579-0304	9/8/2012	Not Analyzed							
X7-SB580	X7-SS580-0001	9/8/2012	9/9/2012	Pb	174,175,176	17	5	21	10	14.33
	X7-SS580-0102	9/8/2012	9/9/2012	Pb	177,178,179	7	5	7	10	6.33
	X7-SS580-0203	9/8/2012	Not Analyzed							
	X7-SS580-0304	9/8/2012	Not Analyzed							

Indicates XRF result greater thanfield screening level of 125 ppm.

XRF QC

9/8/2012

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	XRF ANALYSIS DATE	PARAMETER	XRF Reading Numbers	1st (ppm)	2nd (ppm)	3rd (ppm)	DETECTION LIMIT (ppm)	Auto Generated AVG (ppm)
1	STD		232							
2	Blank		-3							
3	2702 (132.8)		120							
4	2781 (202.1)		177							
29	STD		223							
186	Blank		-1							
187	2702 (132.8)		123							
188	2781 (202.1)		164							
9/92012										
1	STD		219							
2	Blank		4							
3	2702 (132.8)		113							
4	2781 (202.1)		190							
96	STD		221							
196	STD		221							
349	Blank		-1							
350	2702 (132.8)		105							
351	2781 (202.1)		160							
9/10/2012										
1	STD		220							
2	Blank		6							
3	2702 (132.8)		122							
4	2781 (202.1)		180							
119	STD		225							
192	STD		222							
204	Blank		-4							
205	2702 (132.8)		93							
206	2781 (202.1)		190							

APPENDIX B

PROJECT SITE PHOTOGRAPHS

Appendix B - NSA Crane (UXO 7)

SITE: UXO 7 – Rifle Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** North	**DESCRIPTION:** View of UXO 7 from main target area. West Trap Range to the left (just past rough area). East Trap Range to the right of the gravel road. Rifle Range shooting berms along left side of photo.	1 4/5/2011

SITE: UXO 7 – Rifle Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** East	**DESCRIPTION:** Sample locations at the 400-yard firing berm.	2 11/11/2011

Appendix B - NSA Crane (UXO 7)

SITE: UXO 7 - Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** Southwest	**DESCRIPTION:** View of the dirt mound located between the 300- and 400-yard firing berms.	3 11/14/2011

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** North	**DESCRIPTION:** View of the dirt mound located between the 300- and 400-yard firing berms.	4 11/15/2011

Appendix B - NSA Crane (UXO 7)

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** North	**DESCRIPTION:** View of angle DPT drilling into base of dirt mound.	5 11/15/2011

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** South	**DESCRIPTION:** Collection of soil sample via DPT angled into base of dirt mound.	6 11/15/2011

Appendix B - NSA Crane (UXO 7)

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** West	**DESCRIPTION:** View of the West Trap Range standing at firing points and looking west toward tree line.	7 10/11/2012

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** NSA Crane Trailer	**DESCRIPTION:** Soil samples being processed for XRF Analysis.	8 10/11/2012

Appendix B - NSA Crane (UXO 7)

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** NSA Crane Trailer	**DESCRIPTION:** Soil samples being processed for XRF analysis.	9 10/11/2012

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:** NSA Crane Trailer	**DESCRIPTION:** Oven used to dry soil samples in process for XRF analysis	10 10/11/2012

Appendix B - NSA Crane (UXO 7)

SITE:	PHOTOGRAPHER:	DESCRIPTION:	
UXO 7 – Ranges	J. Goerdt **VIEW:** NSA Crane Trailer	Inside of oven used to dry soil samples. The oven holds approximately 50 soil samples.	11 11/10/2012

SITE:	PHOTOGRAPHER:	DESCRIPTION:	
UXO 7 – Ranges	J. Goerdt **VIEW:** East	View of the East Trap Range with PVC driven into the ground to represent each sample location.	12 10/11/2012

Appendix B - NSA Crane (UXO 7)

SITE: UXO 7 – Ranges	**PHOTOGRAPHER:** J. Goerdt **VIEW:**	**DESCRIPTION:** Bullets and fragments recovered during soil sampling at the 400-yard firing line.	13 11/10/2011

APPENDIX C

ANALYTICAL DATA PRESENTATION

Appendix C

C.1 Analytical Data Presentation – PAHs and Benzo(a)Pyrene Equivalents

The PAH compounds detected in the soil samples collected from the trap ranges originated from fragments and residues from the clay targets (pigeons) used on the trap ranges. A pitch tar containing PAHs was often used in the manufacture of the clay pigeons to help bind the clay particles. PAH analyses for soil samples was conducted on soil samples collected in the West and East Trap Range areas where clay pigeon fragments from skeet and trap range activities would be expected based on the distance from the trap house/firing line areas or based on previous environmental data collected during the UXO 7 RFI. The technical approach for evaluating PAH compounds in soil samples collected at UXO 7 was consistent with the procedures established for evaluating PAHs in soil samples collected from the skeet and trap range areas inside the West Gate Small Arms Range Complex during late 2009, and as reported in the MRP Site Inspection Report for NSA Crane (Tetra Tech, 2010). The United States Environmental Protection Agency (USEPA) has identified seven PAHs as potentially carcinogenic: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno-(1,2,3-cd)-pyrene. Of these PAHs, benzo(a)pyrene has been subjected to the most toxicological study and the USEPA has used the toxicological data to establish quantitative toxicological parameters (cancer slope factors and inhalation unit risks) for benzo(a)pyrene.

The BaP equivalent concentration was calculated for each sample using the following four step process. First, for any potentially carcinogenic PAH that was not detected, half the reporting limit was used as the concentration for that PAH. Second, the concentration of each potentially carcinogenic PAH was multiplied by its TEF to give its BaP equivalent concentration. Third, the BaP equivalent concentrations for all potentially carcinogenic PAHs were summed to give the total BaP equivalent concentration. Fourth, if no potentially carcinogenic PAHs were detected in a sample, the reporting limit for benzo(a)pyrene was used as the total BaP equivalent concentration. The TEFs for the seven potentially carcinogenic PAHs are given in the table below:

PAH	TEF
Benzo(a)pyrene	1.0
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenzo(a,h)anthracene	1.0
Indeno(1,2,3-c,d)pyrene	0.1

All seven of these PAHs have a similar chemical structure and similar chemical properties. For example, these PAHs have relatively low solubilities in water, have low potential to volatilize into the air and have a propensity for adsorbing to soil rather than dissolving in water once they are in the environment.

Laboratory studies suggest that these chemicals act similarly from the perspective of carcinogenicity and that the carcinogenic potency of the individual PAHs can be evaluated with reference to the carcinogenic potency of benzo(a)pyrene. Therefore, USEPA has developed a toxicity equivalency factor (TEF) for each potentially carcinogenic PAH that can be used to convert the concentration of that PAH to an equivalent concentration of benzo(a)pyrene. Since benzo(a)pyrene is often abbreviated BaP, this process is known as determining the BaP equivalent concentration.

The concentrations of potentially carcinogenic PAHs in each discrete surface soil sample submitted for analysis of PAHs will be evaluated and the total BaP equivalent concentrations will be compared to risk-based screening levels (RBSLs) for BaP for direct contact exposures to soil (i.e., incidental ingestion, dermal contact, and inhalation of constituents emitted from soil to the air). The RBSL for residential exposures to BaP in soil is 15 µg/kg or 0.015 mg/kg. This value comes from the USEPA Regional Screening Level tables and corresponds to a risk level of 1×10^{-6}.

The table presented below summarizes the PALs for the PAHs in the East and West Trap Range areas and the analytical results for the collected samples will be compared to the calculated screening values for noted above for individual PAH compounds

PAH Compound	Project Action Limit (PAL) (µg/kg)	Project Action Limit (PAL) (mg/kg)
2-METHYLNAPHTHALENE	310,000	310
ACENAPHTHENE	29,000	29
ACENAPHTHYLENE	3,400,000	3,400
ANTHRACENE	29,000	29
BENZO(A)ANTHRACENE	150	0.150
BENZO(A)PYRENE	15	0.015
BENZO(B)FLUORANTHENE	150	0.150

PAH Compound	Project Action Limit (PAL) (µg/kg)	Project Action Limit (PAL) (mg/kg)
BENZO(G,H,I)PERYLENE	1,100	1.1
BENZO(K)FLUORANTHENE	1,100	1.1
CHRYSENE	1,100	1.1
DIBENZO(A,H)ANTHRACENE	15	0.015
FLUORANTHENE	29,000	29
FLUORENE	29,000	29
INDENO(1,2,3-CD)PYRENE	150	0.150
PHENANTHRENE	1,100	1.1
PYRENE	1,100	1.1
BAP EQUIVALENT-HALFND	15	0.015
BAP EQUIVALENT-POS	15	0.015

The analytical results for individual PAH compounds will be presented along with a total for calculated benzo(a)pyrene (BaP) equivalents. The calculated risk-based screening value for BaP is 0.015 milligrams per kilogram (mg/kg) at a human health risk screening level of 1×10^{-6} for residential exposures.

Because human health exposure levels developed for future residential exposures are generally very conservative and much lower than those developed for future industrial or non-residential human health exposures, the residential RBSLs will be used as a basis for delineating the extent of contaminated soil for removal on the former trap ranges at UXO 7. Using the more conservative residential exposure RBSL to evaluate soil data and develop proposed remedial actions to further reduce the future human health cancer risks due to BaP equivalent concentrations in the UXO 7 trap range soils facilitates future land development and reuse scenarios for the UXO 7 area without excessive land use controls or other limitations on future land use (i.e., exclusively industrial with no potential for residential development).

TABLE C-1

QUALIFIED DATA
CENTRAL AREA
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SB291-0203	LEAD	MG/KG	203	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SB295-0304	LEAD	MG/KG	246	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB298-0405	LEAD	MG/KG	142	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS345-0102	LEAD	MG/KG	78.4	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS347-0102	LEAD	MG/KG	91.5	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SB351-0304	LEAD	MG/KG	114	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB351-0506	LEAD	MG/KG	128	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS351-0001	LEAD	MG/KG	191	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SB358-0506	LEAD	MG/KG	283	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB368-0203	LEAD	MG/KG	87.5	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS392-0001	LEAD	MG/KG	107	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS393-0102	LEAD	MG/KG	226	J	FG	LABORATORY AND FIELD DUPLICATE IMPRECISION
X7-SS393-0102-D	LEAD	MG/KG	436	J	G	FIELD DUPLICATE IMPRECISION
X7-SB395-0405	LEAD	MG/KG	160	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB558-0506	LEAD	MG/KG	217	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB561-0203	LEAD	MG/KG	144	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS563-0001	LEAD	MG/KG	195	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS584-0001	LEAD	MG/KG	242	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS586-0102	LEAD	MG/KG	204	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS587-0001	LEAD	MG/KG	138	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB592-0506	LEAD	MG/KG	240	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB593-0304	LEAD	MG/KG	19.6	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS595-0001	LEAD	MG/KG	157	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB611-0203	LEAD	MG/KG	207	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB615-0304	LEAD	MG/KG	123	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SB620-0203	LEAD	MG/KG	161	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS621-0102	LEAD	MG/KG	154	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SB075-0406	BENZO(A)PYRENE	MG/KG	0.00198	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB075-0406	BENZO(B)FLUORANTHENE	MG/KG	0.00238	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0001	ACENAPHTHENE	MG/KG	0.00389	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0001	ANTHRACENE	MG/KG	0.00643	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0001	FLUORENE	MG/KG	0.00272	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0102	ACENAPHTHENE	MG/KG	0.00476	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0102	ANTHRACENE	MG/KG	0.00712	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0102	FLUORENE	MG/KG	0.00263	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS242-0102	NAPHTHALENE	MG/KG	0.0029	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB242-0204	PHENANTHRENE	MG/KG	0.00489	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB243-0204	1-METHYLNAPHTHALENE	MG/KG	0.0223	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB243-0204	2-METHYLNAPHTHALENE	MG/KG	0.0315	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB243-0406	PHENANTHRENE	MG/KG	0.00634	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS243-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00779	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS243-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00381	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS243-0001	PHENANTHRENE	MG/KG	0.00424	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS243-0102	ACENAPHTHENE	MG/KG	0.00556	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS243-0102	FLUORENE	MG/KG	0.00389	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS243-0102	NAPHTHALENE	MG/KG	0.00494	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS244-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00721	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS244-0102	ANTHRACENE	MG/KG	0.00543	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS244-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00544	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS244-0102	PHENANTHRENE	MG/KG	0.00533	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0001	ANTHRACENE	MG/KG	0.0067	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00412	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0001	PHENANTHRENE	MG/KG	0.00684	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0102	BENZO(A)PYRENE	MG/KG	0.0227	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0321	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0102	FLUORANTHENE	MG/KG	0.0275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS245-0102	PYRENE	MG/KG	0.0271	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS246-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00556	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS246-0102	ANTHRACENE	MG/KG	0.00242	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS247-0001	ACENAPHTHENE	MG/KG	0.00208	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS247-0001	ANTHRACENE	MG/KG	0.0049	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS247-0102	NAPHTHALENE	MG/KG	0.0589	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB247-0204	BENZO(A)PYRENE	MG/KG	0.00289	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB247-0204	BENZO(B)FLUORANTHENE	MG/KG	0.00289	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB247-0204	BENZO(G,H,I)PERYLENE	MG/KG	0.00361	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB247-0204	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00217	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB247-0204	FLUORANTHENE	MG/KG	0.0018	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB247-0204	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00325	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	BENZO(A)ANTHRACENE	MG/KG	0.0037	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	BENZO(A)PYRENE	MG/KG	0.00497	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00673	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00542	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00245	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	CHRYSENE	MG/KG	0.00527	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	FLUORANTHENE	MG/KG	0.00687	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS248-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00439	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001	PYRENE	MG/KG	0.00653	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	BENZO(A)PYRENE	MG/KG	0.00347	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	BENZO(B)FLUORANTHENE	MG/KG	0.00436	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	BENZO(G,H,I)PERYLENE	MG/KG	0.00368	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	BENZO(K)FLUORANTHENE	MG/KG	0.0033	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	FLUORANTHENE	MG/KG	0.00501	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00299	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	PHENANTHRENE	MG/KG	0.00339	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS248-0001-D	PYRENE	MG/KG	0.00456	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS249-0001	ANTHRACENE	MG/KG	0.0022	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS249-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00522	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS249-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00815	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS249-0001	PHENANTHRENE	MG/KG	0.00492	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS249-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.003	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS249-0102	PHENANTHRENE	MG/KG	0.00671	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS250-0001	BENZO(A)PYRENE	MG/KG	0.00531	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00611	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001	BENZO(K)FLUORANTHENE	MG/KG	0.0043	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00593	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001-D	BENZO(A)ANTHRACENE	MG/KG	0.00672	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001-D	BENZO(G,H,I)PERYLENE	MG/KG	0.0072	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001-D	BENZO(K)FLUORANTHENE	MG/KG	0.00476	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001-D	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00721	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0001-D	PHENANTHRENE	MG/KG	0.00442	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0102	ACENAPHTHENE	MG/KG	0.00235	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS250-0102	ANTHRACENE	MG/KG	0.00481	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS251-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00735	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS251-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00364	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS251-0001	PHENANTHRENE	MG/KG	0.00415	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS251-0102	BENZO(K)FLUORANTHENE	MG/KG	0.0057	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS251-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.004	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS251-0102	PHENANTHRENE	MG/KG	0.00595	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	BENZO(A)PYRENE	MG/KG	0.00767	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.0075	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00487	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	FLUORANTHENE	MG/KG	0.00776	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00763	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	PHENANTHRENE	MG/KG	0.00376	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0001	PYRENE	MG/KG	0.0076	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS252-0102	PHENANTHRENE	MG/KG	0.00523	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0001	ANTHRACENE	MG/KG	0.00212	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0001	BENZO(A)PYRENE	MG/KG	0.00671	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00507	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0001	PHENANTHRENE	MG/KG	0.0048	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0001	PYRENE	MG/KG	0.00725	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0102	ANTHRACENE	MG/KG	0.00255	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS253-0102	PHENANTHRENE	MG/KG	0.0066	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS254-0001	ACENAPHTHENE	MG/KG	0.00681	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS254-0001	FLUORENE	MG/KG	0.0036	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS254-0102	ACENAPHTHENE	MG/KG	0.00378	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS254-0102	ANTHRACENE	MG/KG	0.00554	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB254-0204	ANTHRACENE	MG/KG	0.00332	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0204	1-METHYLNAPHTHALENE	MG/KG	0.00224	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0204	2-METHYLNAPHTHALENE	MG/KG	0.00374	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0204	ACENAPHTHENE	MG/KG	0.0202	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	ANTHRACENE	MG/KG	0.0265	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	BENZO(A)ANTHRACENE	MG/KG	0.729	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	BENZO(A)PYRENE	MG/KG	1.18	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	BENZO(B)FLUORANTHENE	MG/KG	1.45	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	BENZO(G,H,I)PERYLENE	MG/KG	0.887	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	BENZO(K)FLUORANTHENE	MG/KG	0.467	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	CHRYSENE	MG/KG	0.964	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	FLUORANTHENE	MG/KG	0.801	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	INDENO(1,2,3-CD)PYRENE	MG/KG	0.72	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	PHENANTHRENE	MG/KG	0.129	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204	PYRENE	MG/KG	0.721	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	ACENAPHTHENE	MG/KG	0.00359	J	GP	FIELD DUPLICATE IMPRECISION AND UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SB255-0204-D	ANTHRACENE	MG/KG	0.00538	J	GP	FIELD DUPLICATE IMPRECISION AND UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0204-D	BENZO(A)ANTHRACENE	MG/KG	0.17	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	BENZO(A)PYRENE	MG/KG	0.267	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	BENZO(B)FLUORANTHENE	MG/KG	0.35	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	BENZO(G,H,I)PERYLENE	MG/KG	0.181	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	BENZO(K)FLUORANTHENE	MG/KG	0.13	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	CHRYSENE	MG/KG	0.206	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	FLUORANTHENE	MG/KG	0.183	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	FLUORENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0204-D	INDENO(1,2,3-CD)PYRENE	MG/KG	0.154	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	PHENANTHRENE	MG/KG	0.0273	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0204-D	PYRENE	MG/KG	0.192	J	G	FIELD DUPLICATE IMPRECISION
X7-SB255-0406	BENZO(A)PYRENE	MG/KG	0.00257	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0406	BENZO(B)FLUORANTHENE	MG/KG	0.00343	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB255-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00257	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS255-0001	1-METHYLNAPHTHALENE	MG/KG	0.00489	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS255-0001	2-METHYLNAPHTHALENE	MG/KG	0.00764	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS255-0102	NAPHTHALENE	MG/KG	0.0582	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS256-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00438	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS256-0001	PHENANTHRENE	MG/KG	0.00562	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS256-0102	ACENAPHTHENE	MG/KG	0.00304	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS256-0102	ANTHRACENE	MG/KG	0.00511	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB256-0204	ACENAPHTHENE	MG/KG	0.00255	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB256-0204	ANTHRACENE	MG/KG	0.00473	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00437	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0001	PHENANTHRENE	MG/KG	0.00542	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0001-D	ANTHRACENE	MG/KG	0.00301	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0001-D	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00689	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0102	ACENAPHTHENE	MG/KG	0.00437	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0102	ANTHRACENE	MG/KG	0.00691	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0102	BENZO(A)PYRENE	MG/KG	0.238	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS257-0102	BENZO(B)FLUORANTHENE	MG/KG	0.312	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS257-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.175	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS257-0102	BENZO(K)FLUORANTHENE	MG/KG	0.115	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS257-0102	CHRYSENE	MG/KG	0.249	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS257-0102	FLUORANTHENE	MG/KG	0.213	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS257-0102	FLUORENE	MG/KG	0.00266	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS257-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.182	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS257-0102	PYRENE	MG/KG	0.225	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS258-0001	BENZO(A)PYRENE	MG/KG	0.00616	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS258-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00618	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS258-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00373	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS258-0001	FLUORANTHENE	MG/KG	0.00781	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS258-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00647	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS258-0001	PHENANTHRENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS258-0001	PYRENE	MG/KG	0.00724	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00707	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00426	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00256	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00647	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0001	PHENANTHRENE	MG/KG	0.00384	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0102	ACENAPHTHENE	MG/KG	0.00271	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS260-0102	ANTHRACENE	MG/KG	0.00473	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS260-0102	FLUORENE	MG/KG	0.00201	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS261-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00358	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS261-0001	PHENANTHRENE	MG/KG	0.00437	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS261-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.0452	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS261-0102	PHENANTHRENE	MG/KG	0.0282	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB261-0204	BENZO(A)PYRENE	MG/KG	0.00189	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB261-0204	BENZO(B)FLUORANTHENE	MG/KG	0.00227	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS262-0001	ACENAPHTHENE	MG/KG	0.00765	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS262-0001	FLUORENE	MG/KG	0.00389	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS262-0102	ANTHRACENE	MG/KG	0.00275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0001	ACENAPHTHENE	MG/KG	0.00587	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0001	FLUORENE	MG/KG	0.00368	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0102	BENZO(A)PYRENE	MG/KG	0.00305	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00345	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00274	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS263-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00196	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0102	FLUORANTHENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00283	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS263-0102	PYRENE	MG/KG	0.00282	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00652	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0102	BENZO(A)PYRENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00467	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00221	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0102	FLUORANTHENE	MG/KG	0.00642	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0102	PHENANTHRENE	MG/KG	0.0061	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS265-0102	PYRENE	MG/KG	0.00455	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0001	BENZO(A)ANTHRACENE	MG/KG	0.00644	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00668	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00497	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0001	CHRYSENE	MG/KG	0.00776	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0058	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS266-0001	PHENANTHRENE	MG/KG	0.00327	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0001	PYRENE	MG/KG	0.00824	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00726	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS266-0102	PHENANTHRENE	MG/KG	0.00441	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.0069	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00561	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00723	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0001	PHENANTHRENE	MG/KG	0.0032	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00785	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00378	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS267-0102	PHENANTHRENE	MG/KG	0.00408	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS270-0001	BENZO(A)ANTHRACENE	MG/KG	0.00642	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS270-0001	BENZO(A)PYRENE	MG/KG	0.00758	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS270-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00585	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS270-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00463	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS270-0001	CHRYSENE	MG/KG	0.00773	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS270-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00588	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS270-0001	PHENANTHRENE	MG/KG	0.00483	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS271-0102	ACENAPHTHENE	MG/KG	0.00297	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS271-0102	ANTHRACENE	MG/KG	0.00403	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS272-0001	ACENAPHTHENE	MG/KG	0.00275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS272-0001	ANTHRACENE	MG/KG	0.00403	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS272-0001	FLUORENE	MG/KG	0.00214	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS272-0102	ACENAPHTHENE	MG/KG	0.00272	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS272-0102	ANTHRACENE	MG/KG	0.00537	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS491-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00676	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS491-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00398	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS491-0001	CHRYSENE	MG/KG	0.00637	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS491-0001	FLUORANTHENE	MG/KG	0.00756	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS491-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00517	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS491-0001	PHENANTHRENE	MG/KG	0.00239	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS492-0102	BENZO(A)ANTHRACENE	MG/KG	0.00548	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS492-0102	BENZO(A)PYRENE	MG/KG	0.00365	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS492-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00475	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS492-0102	CHRYSENE	MG/KG	0.00256	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS492-0102	FLUORANTHENE	MG/KG	0.00256	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS492-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00219	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS492-0102	PYRENE	MG/KG	0.00256	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS493-0001	ANTHRACENE	MG/KG	0.00281	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS494-0001	PHENANTHRENE	MG/KG	0.00363	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS497-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00656	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS497-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.007	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS497-0001	PHENANTHRENE	MG/KG	0.00743	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS497-0102	PHENANTHRENE	MG/KG	0.00649	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS498-0001	BENZO(A)PYRENE	MG/KG	0.00244	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS498-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00325	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS498-0001	FLUORANTHENE	MG/KG	0.00284	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS498-0001	PYRENE	MG/KG	0.00244	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS502-0001	PHENANTHRENE	MG/KG	0.00499	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	BENZO(A)ANTHRACENE	MG/KG	0.00655	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	BENZO(A)PYRENE	MG/KG	0.00437	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00618	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00291	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00218	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	CHRYSENE	MG/KG	0.00327	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	FLUORANTHENE	MG/KG	0.004	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00255	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS502-0102	PYRENE	MG/KG	0.004	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0001	ACENAPHTHENE	MG/KG	0.00255	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0001	ANTHRACENE	MG/KG	0.00638	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0001	FLUORENE	MG/KG	0.00255	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0102	BENZO(A)PYRENE	MG/KG	0.00734	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00449	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00326	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS503-0102	CHRYSENE	MG/KG	0.00571	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00367	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS503-0102	PHENANTHRENE	MG/KG	0.00408	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	BENZO(A)ANTHRACENE	MG/KG	0.00744	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	BENZO(A)PYRENE	MG/KG	0.00372	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00579	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00289	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00248	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	CHRYSENE	MG/KG	0.00331	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	FLUORANTHENE	MG/KG	0.0062	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00248	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	PHENANTHRENE	MG/KG	0.00372	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS504-0001	PYRENE	MG/KG	0.00579	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0001	BENZO(A)PYRENE	MG/KG	0.00775	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00489	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00408	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS505-0001	CHRYSENE	MG/KG	0.00571	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0001	FLUORANTHENE	MG/KG	0.00693	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00408	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0001	PYRENE	MG/KG	0.00693	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS505-0102	1-METHYLNAPHTHALENE	MG/KG	0.0329	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00205	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0102	BENZO(A)ANTHRACENE	MG/KG	0.00564	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0102	BENZO(A)PYRENE	MG/KG	0.00201	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00322	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0102	CHRYSENE	MG/KG	0.00201	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0102	FLUORANTHENE	MG/KG	0.00403	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS506-0102	PYRENE	MG/KG	0.00362	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS507-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00244	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS507-0102	BENZO(A)PYRENE	MG/KG	0.00192	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS507-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00307	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS507-0102	FLUORANTHENE	MG/KG	0.0023	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS507-0102	PYRENE	MG/KG	0.0023	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	BENZO(A)PYRENE	MG/KG	0.00676	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00477	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00358	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	CHRYSENE	MG/KG	0.00477	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	FLUORANTHENE	MG/KG	0.00676	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00398	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0001	PYRENE	MG/KG	0.00636	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS510-0102	PHENANTHRENE	MG/KG	0.00581	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0001	2-METHYLNAPHTHALENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0001	ACENAPHTHENE	MG/KG	0.00695	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0001	ANTHRACENE	MG/KG	0.009	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0001	FLUORENE	MG/KG	0.00409	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	BENZO(A)ANTHRACENE	MG/KG	0.00776	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	BENZO(A)PYRENE	MG/KG	0.00582	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00388	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS511-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00349	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	CHRYSENE	MG/KG	0.00466	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	FLUORANTHENE	MG/KG	0.00738	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00349	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	PHENANTHRENE	MG/KG	0.00311	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102	PYRENE	MG/KG	0.00621	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102-D	BENZO(G,H,I)PERYLENE	MG/KG	0.00694	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102-D	BENZO(K)FLUORANTHENE	MG/KG	0.00578	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102-D	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00617	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS511-0102-D	PHENANTHRENE	MG/KG	0.00347	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	BENZO(A)ANTHRACENE	MG/KG	0.00692	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	BENZO(A)PYRENE	MG/KG	0.00326	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00448	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00285	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	CHRYSENE	MG/KG	0.00285	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	FLUORANTHENE	MG/KG	0.00488	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS513-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00204	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	PHENANTHRENE	MG/KG	0.00285	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS513-0001	PYRENE	MG/KG	0.00529	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0001	PHENANTHRENE	MG/KG	0.00444	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	BENZO(A)ANTHRACENE	MG/KG	0.00702	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	BENZO(A)PYRENE	MG/KG	0.00517	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00738	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00369	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00295	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	CHRYSENE	MG/KG	0.00369	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	FLUORANTHENE	MG/KG	0.0048	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00295	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS518-0102	PYRENE	MG/KG	0.00443	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS519-0001	PHENANTHRENE	MG/KG	0.00468	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS519-0102	PHENANTHRENE	MG/KG	0.00366	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.0067	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS521-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00394	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0001	CHRYSENE	MG/KG	0.0067	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00551	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0001	PHENANTHRENE	MG/KG	0.00236	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0001	PYRENE	MG/KG	0.00709	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0102	BENZO(A)PYRENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0038	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0102	FLUORANTHENE	MG/KG	0.00304	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0102	PYRENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0102-D	BENZO(B)FLUORANTHENE	MG/KG	0.00266	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS521-0102-D	FLUORANTHENE	MG/KG	0.0019	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0001	BENZO(A)PYRENE	MG/KG	0.00657	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00534	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00329	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0001	CHRYSENE	MG/KG	0.00616	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00452	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS522-0001	PHENANTHRENE	MG/KG	0.00534	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0001	PYRENE	MG/KG	0.0074	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0102	BENZO(A)PYRENE	MG/KG	0.00193	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00309	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0102	FLUORANTHENE	MG/KG	0.00231	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS522-0102	PYRENE	MG/KG	0.00193	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS525-0001	BENZO(A)PYRENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS525-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00369	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS525-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS525-0001	FLUORANTHENE	MG/KG	0.00328	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS525-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00205	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS525-0001	PYRENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	BENZO(A)PYRENE	MG/KG	0.00487	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	BENZO(B)FLUORANTHENE	MG/KG	0.0069	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00446	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00284	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS526-0001	CHRYSENE	MG/KG	0.00365	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	FLUORANTHENE	MG/KG	0.00487	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00325	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0001	PYRENE	MG/KG	0.00446	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0102	ACENAPHTHENE	MG/KG	0.00633	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0102	FLUORENE	MG/KG	0.00522	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS526-0102	NAPHTHALENE	MG/KG	0.00447	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	BENZO(A)ANTHRACENE	MG/KG	0.00632	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	BENZO(A)PYRENE	MG/KG	0.00409	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	BENZO(B)FLUORANTHENE	MG/KG	0.00521	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	BENZO(G,H,I)PERYLENE	MG/KG	0.00335	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	BENZO(K)FLUORANTHENE	MG/KG	0.00223	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	CHRYSENE	MG/KG	0.00298	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	FLUORANTHENE	MG/KG	0.00298	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0026	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0204	PYRENE	MG/KG	0.00298	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SB526-0406	BENZO(A)PYRENE	MG/KG	0.00353	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0406	BENZO(B)FLUORANTHENE	MG/KG	0.00432	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0406	CHRYSENE	MG/KG	0.00235	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0406	FLUORANTHENE	MG/KG	0.00314	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0406	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00235	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB526-0406	PYRENE	MG/KG	0.00314	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	BENZO(A)PYRENE	MG/KG	0.00623	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00506	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	BENZO(K)FLUORANTHENE	MG/KG	0.00351	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	CHRYSENE	MG/KG	0.00506	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	FLUORANTHENE	MG/KG	0.00467	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00428	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB527-0406	PYRENE	MG/KG	0.00467	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS527-0001	BENZO(A)PYRENE	MG/KG	0.00247	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS527-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00329	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS527-0001	FLUORANTHENE	MG/KG	0.00288	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS527-0001	PYRENE	MG/KG	0.00247	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS527-0102	ACENAPHTHENE	MG/KG	0.00191	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS527-0102	ANTHRACENE	MG/KG	0.00381	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00511	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00471	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	CHRYSENE	MG/KG	0.00668	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	FLUORANTHENE	MG/KG	0.00707	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00432	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	PHENANTHRENE	MG/KG	0.00275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS528-0001	PYRENE	MG/KG	0.00746	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB528-0204	1-METHYLNAPHTHALENE	MG/KG	0.00373	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB528-0204	2-METHYLNAPHTHALENE	MG/KG	0.00523	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB528-0406	2-METHYLNAPHTHALENE	MG/KG	0.00278	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB528-0406	NAPHTHALENE	MG/KG	0.00674	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS529-0001	PHENANTHRENE	MG/KG	0.00554	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS530-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00703	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00538	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0001	CHRYSENE	MG/KG	0.00786	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0001	FLUORANTHENE	MG/KG	0.00703	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00538	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0001	PYRENE	MG/KG	0.00662	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0102	ANTHRACENE	MG/KG	0.00314	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS530-0102	NAPHTHALENE	MG/KG	0.00393	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	BENZO(A)PYRENE	MG/KG	0.00676	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00438	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00318	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	CHRYSENE	MG/KG	0.00597	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00358	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	PHENANTHRENE	MG/KG	0.00318	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0001	PYRENE	MG/KG	0.00756	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0102	BENZO(A)PYRENE	MG/KG	0.0324	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS531-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0365	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.0243	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS531-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0243	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS535-0001	PHENANTHRENE	MG/KG	0.00594	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS535-0102	1-METHYLNAPHTHALENE	MG/KG	0.00622	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0204	ANTHRACENE	MG/KG	0.00473	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	BENZO(A)PYRENE	MG/KG	0.00368	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	BENZO(B)FLUORANTHENE	MG/KG	0.0045	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	CHRYSENE	MG/KG	0.00245	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	FLUORANTHENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00245	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB535-0406	PYRENE	MG/KG	0.00245	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0001	ANTHRACENE	MG/KG	0.00211	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0001	BENZO(A)PYRENE	MG/KG	0.00548	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00422	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS536-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00211	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0001	CHRYSENE	MG/KG	0.00464	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00337	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0102	BENZO(A)PYRENE	MG/KG	0.00196	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00314	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0102	FLUORANTHENE	MG/KG	0.00314	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS536-0102	PYRENE	MG/KG	0.00275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	BENZO(A)ANTHRACENE	MG/KG	0.00573	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	BENZO(A)PYRENE	MG/KG	0.00327	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00532	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00368	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	CHRYSENE	MG/KG	0.00205	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00205	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	FLUORANTHENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00327	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS540-0001	PYRENE	MG/KG	0.00327	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	BENZO(A)PYRENE	MG/KG	0.00643	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00442	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00321	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	CHRYSENE	MG/KG	0.00522	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	FLUORANTHENE	MG/KG	0.00563	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00402	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS540-0102	PYRENE	MG/KG	0.00683	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS541-0001	1-METHYLNAPHTHALENE	MG/KG	0.00331	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS541-0001	2-METHYLNAPHTHALENE	MG/KG	0.00497	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS541-0001	NAPHTHALENE	MG/KG	0.00207	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS541-0102	ACENAPHTHENE	MG/KG	0.00598	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS541-0102	FLUORENE	MG/KG	0.00299	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	BENZO(A)ANTHRACENE	MG/KG	0.00612	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	BENZO(A)PYRENE	MG/KG	0.00367	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00571	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-2

QUALIFIED DATA
EAST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS542-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00367	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	CHRYSENE	MG/KG	0.00326	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	FLUORANTHENE	MG/KG	0.00449	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0001	PYRENE	MG/KG	0.00408	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00231	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0102	FLUORANTHENE	MG/KG	0.00346	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0102	PHENANTHRENE	MG/KG	0.00231	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS542-0102	PYRENE	MG/KG	0.00269	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS546-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00204	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS546-0001	PHENANTHRENE	MG/KG	0.00326	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-3

QUALIFIED DATA
NORTHERNMOST AREA, UXO 7
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SB279-0203	LEAD	MG/KG	20.1	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS280-0102	LEAD	MG/KG	94.3	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS287-0001	LEAD	MG/KG	44.8	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS288-0001	LEAD	MG/KG	63.8	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS321-0001	LEAD	MG/KG	156	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS323-0001	LEAD	MG/KG	448	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS327-0001	LEAD	MG/KG	66.4	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS329-0001	LEAD	MG/KG	46.3	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS331-0001	LEAD	MG/KG	138	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS333-0001	LEAD	MG/KG	198	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS336-0001	LEAD	MG/KG	236	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS337-0001	LEAD	MG/KG	63.1	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS342-0102	LEAD	MG/KG	263	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS344-0001	LEAD	MG/KG	111	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS423-0001	LEAD	MG/KG	340	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS424-0001	LEAD	MG/KG	193	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS424-0102	LEAD	MG/KG	91	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS425-0001	LEAD	MG/KG	160	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SB427-0304	LEAD	MG/KG	22.7	J	F	LABORATORY DUPLICATE IMPRECISION
X7-SS429-0001	LEAD	MG/KG	125	J	F	LABORATORY DUPLICATE IMPRECISION

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SB116-0204	ANTHRACENE	MG/KG	0.00288	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB116-0406	BENZO(A)PYRENE	MG/KG	0.00237	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB116-0406	BENZO(B)FLUORANTHENE	MG/KG	0.00316	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB116-0406	FLUORANTHENE	MG/KG	0.00276	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB116-0406	PYRENE	MG/KG	0.00276	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS200-0001	ACENAPHTHENE	MG/KG	0.00224	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS200-0001	ANTHRACENE	MG/KG	0.003	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS200-0102	BENZO(A)ANTHRACENE	MG/KG	0.00938	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS200-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00776	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS200-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00454	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS200-0102	PHENANTHRENE	MG/KG	0.0073	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	BENZO(A)ANTHRACENE	MG/KG	0.00285	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	BENZO(A)PYRENE	MG/KG	0.00349	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0047	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00357	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	CHRYSENE	MG/KG	0.00309	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	FLUORANTHENE	MG/KG	0.00395	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00378	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	PHENANTHRENE	MG/KG	0.0027	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS201-0102	PYRENE	MG/KG	0.00398	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0001	1-METHYLNAPHTHALENE	MG/KG	0.00261	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0001	2-METHYLNAPHTHALENE	MG/KG	0.00284	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0001	NAPHTHALENE	MG/KG	0.00797	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	BENZO(A)ANTHRACENE	MG/KG	0.0033	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	BENZO(A)PYRENE	MG/KG	0.00414	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00514	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00483	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00294	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS202-0102	CHRYSENE	MG/KG	0.00373	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00266	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	FLUORANTHENE	MG/KG	0.00329	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0037	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	PHENANTHRENE	MG/KG	0.00215	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS202-0102	PYRENE	MG/KG	0.00317	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS203-0102	ACENAPHTHENE	MG/KG	0.00584	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS203-0102	ANTHRACENE	MG/KG	0.00653	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS203-0102	FLUORENE	MG/KG	0.00349	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS203-0102	NAPHTHALENE	MG/KG	0.00698	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0204	BENZO(A)PYRENE	MG/KG	0.00266	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0204	BENZO(B)FLUORANTHENE	MG/KG	0.00355	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0204	FLUORANTHENE	MG/KG	0.00311	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0204	PYRENE	MG/KG	0.00266	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	BENZO(A)ANTHRACENE	MG/KG	0.00691	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	BENZO(A)PYRENE	MG/KG	0.00569	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00366	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	BENZO(K)FLUORANTHENE	MG/KG	0.00285	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	CHRYSENE	MG/KG	0.00447	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	FLUORANTHENE	MG/KG	0.00488	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00325	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB203-0406	PYRENE	MG/KG	0.00488	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS204-0001	BENZO(A)ANTHRACENE	MG/KG	0.157	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	BENZO(A)PYRENE	MG/KG	0.187	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	BENZO(B)FLUORANTHENE	MG/KG	0.241	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS204-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.19	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	BENZO(K)FLUORANTHENE	MG/KG	0.091	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	CHRYSENE	MG/KG	0.193	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	FLUORANTHENE	MG/KG	0.21	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	FLUORENE	MG/KG	0.004	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS204-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.178	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	PHENANTHRENE	MG/KG	0.0657	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS204-0001	PYRENE	MG/KG	0.211	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS205-0102	BENZO(A)PYRENE	MG/KG	0.00265	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00349	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00256	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	CHRYSENE	MG/KG	0.00244	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	FLUORANTHENE	MG/KG	0.00304	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00287	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	PHENANTHRENE	MG/KG	0.00211	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS205-0102	PYRENE	MG/KG	0.00289	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0001	PHENANTHRENE	MG/KG	0.00222	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	BENZO(A)ANTHRACENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	BENZO(A)PYRENE	MG/KG	0.00373	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00396	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00348	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	CHRYSENE	MG/KG	0.00303	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	FLUORANTHENE	MG/KG	0.00405	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS206-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0027	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	PHENANTHRENE	MG/KG	0.00297	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS206-0102	PYRENE	MG/KG	0.00369	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0001	1-METHYLNAPHTHALENE	MG/KG	0.00237	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0001	2-METHYLNAPHTHALENE	MG/KG	0.00268	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0001	FLUORENE	MG/KG	0.00682	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0001	NAPHTHALENE	MG/KG	0.00727	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	BENZO(A)ANTHRACENE	MG/KG	0.00412	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	BENZO(A)PYRENE	MG/KG	0.00585	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00655	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.0051	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00276	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	CHRYSENE	MG/KG	0.00502	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	FLUORANTHENE	MG/KG	0.00692	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00475	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	PHENANTHRENE	MG/KG	0.00419	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS207-0102	PYRENE	MG/KG	0.00651	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0001	1-METHYLNAPHTHALENE	MG/KG	0.00517	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0001	2-METHYLNAPHTHALENE	MG/KG	0.00612	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	BENZO(A)ANTHRACENE	MG/KG	0.00555	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	BENZO(A)PYRENE	MG/KG	0.00686	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00668	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00371	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	CHRYSENE	MG/KG	0.00645	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	FLUORANTHENE	MG/KG	0.00695	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00726	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	PHENANTHRENE	MG/KG	0.00273	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS208-0102	PYRENE	MG/KG	0.00661	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS209-0001	ACENAPHTHENE	MG/KG	0.00588	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS209-0001	ANTHRACENE	MG/KG	0.00774	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS209-0001	FLUORENE	MG/KG	0.00296	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS209-0102	BENZO(A)ANTHRACENE	MG/KG	0.00781	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS209-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00591	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS209-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS209-0102	PHENANTHRENE	MG/KG	0.00351	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0001	1-METHYLNAPHTHALENE	MG/KG	0.00211	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0001	2-METHYLNAPHTHALENE	MG/KG	0.0026	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0001	BENZO(A)ANTHRACENE	MG/KG	0.287	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS210-0001	BENZO(A)PYRENE	MG/KG	0.324	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS210-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.291	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS210-0001	BENZO(K)FLUORANTHENE	MG/KG	0.157	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS210-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.286	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS210-0102	BENZO(A)ANTHRACENE	MG/KG	0.00507	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	BENZO(A)PYRENE	MG/KG	0.00591	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00638	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00357	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	CHRYSENE	MG/KG	0.00615	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	FLUORANTHENE	MG/KG	0.0059	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00613	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	PHENANTHRENE	MG/KG	0.00201	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS210-0102	PYRENE	MG/KG	0.00546	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0001	1-METHYLNAPHTHALENE	MG/KG	0.00718	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS211-0102	BENZO(A)ANTHRACENE	MG/KG	0.00672	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	BENZO(A)PYRENE	MG/KG	0.00795	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.0075	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00397	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	CHRYSENE	MG/KG	0.00784	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00298	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00653	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	PHENANTHRENE	MG/KG	0.00341	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS211-0102	PYRENE	MG/KG	0.00807	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS212-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00271	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS212-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00286	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS212-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0023	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS213-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00662	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS213-0001	PHENANTHRENE	MG/KG	0.00529	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS214-0001	1-METHYLNAPHTHALENE	MG/KG	0.0777	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	BENZO(A)ANTHRACENE	MG/KG	0.00288	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	BENZO(A)PYRENE	MG/KG	0.00258	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00246	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00264	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	CHRYSENE	MG/KG	0.00212	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	FLUORANTHENE	MG/KG	0.00268	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00283	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS215-0001	PYRENE	MG/KG	0.00259	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS217-0001	1-METHYLNAPHTHALENE	MG/KG	0.00499	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS217-0001	2-METHYLNAPHTHALENE	MG/KG	0.00574	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS217-0102	ANTHRACENE	MG/KG	0.00208	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS217-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00692	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0001	1-METHYLNAPHTHALENE	MG/KG	0.00505	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS218-0001	2-METHYLNAPHTHALENE	MG/KG	0.00605	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	BENZO(A)ANTHRACENE	MG/KG	0.00428	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	BENZO(A)PYRENE	MG/KG	0.00562	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0064	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00572	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00314	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	CHRYSENE	MG/KG	0.00558	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	FLUORANTHENE	MG/KG	0.00604	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00507	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	PHENANTHRENE	MG/KG	0.00289	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS218-0102	PYRENE	MG/KG	0.00551	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS219-0001	ACENAPHTHENE	MG/KG	0.00324	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS219-0001	ANTHRACENE	MG/KG	0.00454	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0001	FLUORENE	MG/KG	0.00433	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	BENZO(A)PYRENE	MG/KG	0.00646	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.006	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00346	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	FLUORANTHENE	MG/KG	0.00587	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00527	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	PHENANTHRENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS220-0102	PYRENE	MG/KG	0.00596	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS221-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00336	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS221-0001	FLUORANTHENE	MG/KG	0.00256	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS221-0001	PYRENE	MG/KG	0.00269	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0001	ACENAPHTHENE	MG/KG	0.00562	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0001	BENZO(A)ANTHRACENE	MG/KG	0.119	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	BENZO(A)PYRENE	MG/KG	0.168	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS222-0001	BENZO(B)FLUORANTHENE	MG/KG	0.207	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.155	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	BENZO(K)FLUORANTHENE	MG/KG	0.0796	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	CHRYSENE	MG/KG	0.151	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	FLUORANTHENE	MG/KG	0.164	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	FLUORENE	MG/KG	0.00296	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.152	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001	PYRENE	MG/KG	0.156	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS222-0001-D	2-METHYLNAPHTHALENE	MG/KG	0.00215	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0001-D	FLUORENE	MG/KG	0.00451	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	BENZO(A)PYRENE	MG/KG	0.00617	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0071	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00562	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00382	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	FLUORANTHENE	MG/KG	0.00683	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	PHENANTHRENE	MG/KG	0.00402	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS222-0102	PYRENE	MG/KG	0.00655	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0001	2-METHYLNAPHTHALENE	MG/KG	0.00213	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0001	ACENAPHTHENE	MG/KG	0.00321	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0001	ANTHRACENE	MG/KG	0.00438	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0102	BENZO(A)PYRENE	MG/KG	0.00352	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00366	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0102	FLUORANTHENE	MG/KG	0.00326	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS223-0102	PHENANTHRENE	MG/KG	0.00257	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS223-0102	PYRENE	MG/KG	0.00311	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS224-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00699	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0001	ACENAPHTHENE	MG/KG	0.00232	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0001	ANTHRACENE	MG/KG	0.00194	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00295	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00229	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0102	FLUORANTHENE	MG/KG	0.00218	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.002	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0102	PHENANTHRENE	MG/KG	0.00203	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS225-0102	PYRENE	MG/KG	0.00225	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS226-0001	ACENAPHTHENE	MG/KG	0.00451	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS226-0001	ANTHRACENE	MG/KG	0.00613	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS227-0001	ACENAPHTHENE	MG/KG	0.00432	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS227-0001	ANTHRACENE	MG/KG	0.00545	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS227-0001	FLUORENE	MG/KG	0.00246	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0001	ACENAPHTHENE	MG/KG	0.00262	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0001	ANTHRACENE	MG/KG	0.00363	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	BENZO(A)ANTHRACENE	MG/KG	0.00583	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00325	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	CHRYSENE	MG/KG	0.00759	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00211	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00734	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	PHENANTHRENE	MG/KG	0.00348	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS228-0102	PYRENE	MG/KG	0.00776	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0001	1-METHYLNAPHTHALENE	MG/KG	0.0259	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0001	2-METHYLNAPHTHALENE	MG/KG	0.0294	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0001	FLUORENE	MG/KG	0.0733	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS229-0102	BENZO(A)ANTHRACENE	MG/KG	0.00394	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	BENZO(A)PYRENE	MG/KG	0.00513	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00627	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00525	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00243	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	CHRYSENE	MG/KG	0.00452	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	FLUORANTHENE	MG/KG	0.00583	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00509	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	PHENANTHRENE	MG/KG	0.00317	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS229-0102	PYRENE	MG/KG	0.0052	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS230-0001	ACENAPHTHENE	MG/KG	0.00805	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS230-0001	FLUORENE	MG/KG	0.00445	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS230-0102	BENZO(A)ANTHRACENE	MG/KG	0.00755	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS230-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00502	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS230-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00275	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS230-0102	PHENANTHRENE	MG/KG	0.00402	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	BENZO(A)PYRENE	MG/KG	0.00649	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00759	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00594	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	BENZO(K)FLUORANTHENE	MG/KG	0.003	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	FLUORANTHENE	MG/KG	0.00541	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0056	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	PHENANTHRENE	MG/KG	0.00281	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS231-0001	PYRENE	MG/KG	0.00473	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS232-0102	BENZO(A)ANTHRACENE	MG/KG	0.00193	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS232-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00276	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS232-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00235	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS232-0102	FLUORANTHENE	MG/KG	0.00208	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS232-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00212	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS232-0102	PYRENE	MG/KG	0.00197	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS233-0001	ACENAPHTHENE	MG/KG	0.00318	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS233-0001	ANTHRACENE	MG/KG	0.00433	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS234-0001	ACENAPHTHENE	MG/KG	0.00447	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS234-0001	ANTHRACENE	MG/KG	0.0069	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS234-0001	BENZO(A)ANTHRACENE	MG/KG	0.0763	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	BENZO(A)PYRENE	MG/KG	0.0914	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	BENZO(B)FLUORANTHENE	MG/KG	0.124	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.0993	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	BENZO(K)FLUORANTHENE	MG/KG	0.0451	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	CHRYSENE	MG/KG	0.0862	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	FLUORANTHENE	MG/KG	0.115	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0827	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	PHENANTHRENE	MG/KG	0.0418	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS234-0001	PYRENE	MG/KG	0.111	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS237-0001	BENZO(A)PYRENE	MG/KG	0.00467	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS237-0001	BENZO(B)FLUORANTHENE	MG/KG	0.00644	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS237-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00526	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS237-0001	FLUORANTHENE	MG/KG	0.00588	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS237-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00456	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS237-0001	PHENANTHRENE	MG/KG	0.00381	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS237-0001	PYRENE	MG/KG	0.00465	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS238-0001	BENZO(A)ANTHRACENE	MG/KG	0.00747	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS238-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00565	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS238-0001	PHENANTHRENE	MG/KG	0.00597	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS239-0001	BENZO(A)ANTHRACENE	MG/KG	0.00671	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS239-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00518	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS239-0001	PHENANTHRENE	MG/KG	0.00536	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0001	ACENAPHTHENE	MG/KG	0.00251	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0001	ANTHRACENE	MG/KG	0.00386	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	BENZO(A)ANTHRACENE	MG/KG	0.00221	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	BENZO(A)PYRENE	MG/KG	0.00323	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00427	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	CHRYSENE	MG/KG	0.00267	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	FLUORANTHENE	MG/KG	0.00342	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00313	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	PHENANTHRENE	MG/KG	0.00208	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS240-0102	PYRENE	MG/KG	0.0033	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS241-0001	1-METHYLNAPHTHALENE	MG/KG	0.00278	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS241-0001	2-METHYLNAPHTHALENE	MG/KG	0.00338	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS241-0001	FLUORENE	MG/KG	0.00716	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS241-0001	NAPHTHALENE	MG/KG	0.00718	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS241-0102	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00503	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS241-0102	PHENANTHRENE	MG/KG	0.00591	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS441-0001	ACENAPHTHENE	MG/KG	0.00938	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS441-0001	FLUORENE	MG/KG	0.00512	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS442-0001	ACENAPHTHENE	MG/KG	0.00247	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS442-0001	ANTHRACENE	MG/KG	0.00411	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS442-0001	BENZO(A)PYRENE	MG/KG	0.121	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001	BENZO(B)FLUORANTHENE	MG/KG	0.17	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001	BENZO(K)FLUORANTHENE	MG/KG	0.0596	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001	CHRYSENE	MG/KG	0.0971	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00247	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS442-0001	FLUORANTHENE	MG/KG	0.107	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001-D	ANTHRACENE	MG/KG	0.00242	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS442-0001-D	BENZO(A)PYRENE	MG/KG	0.0689	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001-D	BENZO(B)FLUORANTHENE	MG/KG	0.0959	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001-D	BENZO(K)FLUORANTHENE	MG/KG	0.0318	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001-D	CHRYSENE	MG/KG	0.0548	J	G	FIELD DUPLICATE IMPRECISION
X7-SS442-0001-D	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00282	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS442-0001-D	FLUORANTHENE	MG/KG	0.0608	J	G	FIELD DUPLICATE IMPRECISION
X7-SS443-0001	ANTHRACENE	MG/KG	0.00206	J	DP	MATRIX SPIKE RECOVERY NONCOMPLIANCE AND UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS443-0001	BENZO(A)ANTHRACENE	MG/KG	0.0289	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	BENZO(A)PYRENE	MG/KG	0.0351	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	BENZO(B)FLUORANTHENE	MG/KG	0.0462	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.0239	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	BENZO(K)FLUORANTHENE	MG/KG	0.0206	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	CHRYSENE	MG/KG	0.0293	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00413	U	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS443-0001	FLUORANTHENE	MG/KG	0.0318	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	FLUORENE	MG/KG	0.00413	UJ	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0206	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	PHENANTHRENE	MG/KG	0.012	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS443-0001	PYRENE	MG/KG	0.0417	J	D	MATRIX SPIKE RECOVERY NONCOMPLIANCE
X7-SS445-0001	ACENAPHTHENE	MG/KG	0.00203	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS445-0001	FLUORENE	MG/KG	0.00365	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS446-0102	PHENANTHRENE	MG/KG	0.00342	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	BENZO(A)ANTHRACENE	MG/KG	0.00646	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	BENZO(A)PYRENE	MG/KG	0.00485	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	BENZO(B)FLUORANTHENE	MG/KG	0.00525	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	BENZO(G,H,I)PERYLENE	MG/KG	0.00525	U	A	LABORATORY BLANK CONTAMINATION
X7-SB446-0204	BENZO(K)FLUORANTHENE	MG/KG	0.00283	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	CHRYSENE	MG/KG	0.00242	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00283	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	FLUORANTHENE	MG/KG	0.00283	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00485	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	NAPHTHALENE	MG/KG	0.00525	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0204	PYRENE	MG/KG	0.00242	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00384	U	A	LABORATORY BLANK CONTAMINATION
X7-SB446-0406	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00192	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB446-0406	NAPHTHALENE	MG/KG	0.00346	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0001	FLUORENE	MG/KG	0.00567	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	BENZO(A)ANTHRACENE	MG/KG	0.00569	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS447-0102	BENZO(A)PYRENE	MG/KG	0.00342	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00379	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	CHRYSENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	FLUORANTHENE	MG/KG	0.00455	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	PHENANTHRENE	MG/KG	0.00228	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS447-0102	PYRENE	MG/KG	0.00342	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS448-0001	FLUORENE	MG/KG	0.00294	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS451-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.00703	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS451-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00455	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS451-0001	CHRYSENE	MG/KG	0.00703	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS451-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00621	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS451-0001	PHENANTHRENE	MG/KG	0.00248	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS453-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00521	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS453-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00682	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS453-0001	PHENANTHRENE	MG/KG	0.00361	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS453-0102	CHRYSENE	MG/KG	0.00252	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS455-0001	BENZO(K)FLUORANTHENE	MG/KG	0.00574	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS455-0001	PHENANTHRENE	MG/KG	0.0041	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS457-0001	PHENANTHRENE	MG/KG	0.00577	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS460-0001	ACENAPHTHENE	MG/KG	0.00281	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS460-0001	ANTHRACENE	MG/KG	0.00361	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS460-0001	NAPHTHALENE	MG/KG	0.00281	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS462-0001	ANTHRACENE	MG/KG	0.00236	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS462-0102	BENZO(A)ANTHRACENE	MG/KG	0.00513	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS462-0102	BENZO(A)PYRENE	MG/KG	0.00257	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS462-0102	BENZO(B)FLUORANTHENE	MG/KG	0.0033	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS462-0102	FLUORANTHENE	MG/KG	0.0022	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS462-0102	PYRENE	MG/KG	0.00257	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB462-0204	NAPHTHALENE	MG/KG	0.00341	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB462-0406	NAPHTHALENE	MG/KG	0.00329	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB463-0204	NAPHTHALENE	MG/KG	0.00358	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB463-0406	NAPHTHALENE	MG/KG	0.00237	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS463-0102	PHENANTHRENE	MG/KG	0.00639	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0001	1-METHYLNAPHTHALENE	MG/KG	0.0071	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0001	2-METHYLNAPHTHALENE	MG/KG	0.00793	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0001	NAPHTHALENE	MG/KG	0.00793	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0102	ACENAPHTHENE	MG/KG	0.00497	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0102	ANTHRACENE	MG/KG	0.00727	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0102	FLUORENE	MG/KG	0.00268	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS464-0102	NAPHTHALENE	MG/KG	0.00306	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0204	NAPHTHALENE	MG/KG	0.00231	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0406	BENZO(G,H,I)PERYLENE	MG/KG	0.00759	U	A	LABORATORY BLANK CONTAMINATION
X7-SB464-0406	BENZO(K)FLUORANTHENE	MG/KG	0.00399	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0406	CHRYSENE	MG/KG	0.00599	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0406	FLUORANTHENE	MG/KG	0.00679	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0406	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00639	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0406	NAPHTHALENE	MG/KG	0.00319	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SB464-0406	PYRENE	MG/KG	0.00599	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS465-0001	ACENAPHTHENE	MG/KG	0.00592	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS465-0001	FLUORANTHENE	MG/KG	0.177	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS465-0001	FLUORENE	MG/KG	0.00316	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS465-0001	NAPHTHALENE	MG/KG	0.00276	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS466-0001	ACENAPHTHENE	MG/KG	0.00239	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS466-0001	ANTHRACENE	MG/KG	0.00279	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS466-0001	NAPHTHALENE	MG/KG	0.00239	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS466-0102	BAP EQUIVALENT-HALFND	MG/KG	0.00361	U	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	BAP EQUIVALENT-POS	MG/KG	0.00361	U	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	BENZO(A)ANTHRACENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	BENZO(A)PYRENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	BENZO(B)FLUORANTHENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	BENZO(G,H,I)PERYLENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	BENZO(K)FLUORANTHENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	CHRYSENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	FLUORANTHENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	INDENO(1,2,3-CD)PYRENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102	PYRENE	MG/KG	0.00361	UJ	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	ANTHRACENE	MG/KG	0.00268	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS466-0102-D	BENZO(A)ANTHRACENE	MG/KG	0.0598	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	BENZO(A)PYRENE	MG/KG	0.0866	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	BENZO(B)FLUORANTHENE	MG/KG	0.122	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	BENZO(G,H,I)PERYLENE	MG/KG	0.0651	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	BENZO(K)FLUORANTHENE	MG/KG	0.0391	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	CHRYSENE	MG/KG	0.0751	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	FLUORANTHENE	MG/KG	0.0713	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0521	J	G	FIELD DUPLICATE IMPRECISION
X7-SS466-0102-D	PYRENE	MG/KG	0.0694	J	G	FIELD DUPLICATE IMPRECISION
X7-SS469-0001	1-METHYLNAPHTHALENE	MG/KG	0.00326	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS469-0001	2-METHYLNAPHTHALENE	MG/KG	0.00367	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS469-0001	DIBENZO(A,H)ANTHRACENE	MG/KG	0.00611	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS470-0001	1-METHYLNAPHTHALENE	MG/KG	0.00563	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS470-0001	2-METHYLNAPHTHALENE	MG/KG	0.00683	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS470-0102	ANTHRACENE	MG/KG	0.00232	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS471-0001	ACENAPHTHENE	MG/KG	0.00518	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT

TABLE C-4

QUALIFIED DATA
WEST TRAP RANGE
NAVAL SUPPORT ACTIVITY CRANE,
CRANE, INDIANA

SAMPLE NUMBER	PARAMETER	UNITS	SAMPLE RESULT	VALIDATION QUALIFER	QUALIFICATION CODE	REASON FOR QUALIFICATION
X7-SS471-0001	ANTHRACENE	MG/KG	0.00757	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS471-0001	BENZO(A)ANTHRACENE	MG/KG	0.127	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	BENZO(A)PYRENE	MG/KG	0.18	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	BENZO(B)FLUORANTHENE	MG/KG	0.256	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	BENZO(G,H,I)PERYLENE	MG/KG	0.13	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	BENZO(K)FLUORANTHENE	MG/KG	0.0761	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	CHRYSENE	MG/KG	0.161	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	FLUORANTHENE	MG/KG	0.169	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	FLUORENE	MG/KG	0.00239	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS471-0001	INDENO(1,2,3-CD)PYRENE	MG/KG	0.105	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	NAPHTHALENE	MG/KG	0.00319	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS471-0001	PHENANTHRENE	MG/KG	0.0438	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001	PYRENE	MG/KG	0.156	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	ANTHRACENE	MG/KG	0.00289	J	P	UNCERTAINTY NEAR THE DETECTION LIMIT
X7-SS471-0001-D	BENZO(A)ANTHRACENE	MG/KG	0.054	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	BENZO(A)PYRENE	MG/KG	0.0738	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	BENZO(B)FLUORANTHENE	MG/KG	0.105	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	BENZO(G,H,I)PERYLENE	MG/KG	0.0524	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	BENZO(K)FLUORANTHENE	MG/KG	0.0346	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	CHRYSENE	MG/KG	0.0651	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	FLUORANTHENE	MG/KG	0.0668	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	INDENO(1,2,3-CD)PYRENE	MG/KG	0.0416	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	PHENANTHRENE	MG/KG	0.0181	J	G	FIELD DUPLICATE IMPRECISION
X7-SS471-0001-D	PYRENE	MG/KG	0.0639	J	G	FIELD DUPLICATE IMPRECISION

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB095	X7-SB096	X7-SB097	X7-SB098	X7-SB099	X7-SB100	X7-SB101	X7-SB102	X7-SB103
SAMPLE ID	X7-SS095-0002	X7-SS096-0002	X7-SS097-0002	X7-SS098-0002	X7-SS099-0002	X7-SS100-0002	X7-SS101-0002	X7-SS102-0002	X7-SS103-0002
SAMPLE DATE	20071006	20071006	20071007	20071007	20071006	20071006	20071006	20071006	20071006
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	0	0	0	0	0	0
BOTTOM DEPTH	2	2	2	2	2	2	2	2	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	45	NA	NA	NA	33	NA	32	40	23
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	NA	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-POS	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	50	0 U	0 U	0 U	37.33	0 U	37	45.5	27

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB104	X7-SB105	X7-SB106	X7-SB107	X7-SB108	X7-SB109	X7-SB110	X7-SB111
SAMPLE ID	X7-SS104-0002	X7-SS105-0002	X7-SS106-0002	X7-SS107-0002	X7-SS108-0002	X7-SS109-0002	X7-SS110-0002	X7-SS111-0002
SAMPLE DATE	20071006	20071006	20071006	20071009	20071009	20071009	20071006	20071006
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	0	0	0	0	0
BOTTOM DEPTH	2	2	2	2	2	2	2	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	25	27	NA	24	22	22	36	31
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-POS	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)								
LEAD	29	31	0 U	28	25.67	25.67	41	36

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB112			X7-SB113	X7-SB114	X7-SB115	X7-SB116		
SAMPLE ID	X7-SS112-0002	X7-SS112-0002-	X7-SS112-0002-D	X7-SS113-0002	X7-SS114-0002	X7-SS115-0002	X7-SS116-0002	X7-SB116-0204	X7-SB116-0406
SAMPLE DATE	20071006	20071006	20071006	20071006	20071006	20071006	20071006	20120907	20120907
SAMPLE CODE	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH	0	0	0	0	0	0	0	2	4
BOTTOM DEPTH	2	2	2	2	2	2	2	4	6
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	30	30	NA	27	NA	27	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	0.0036 U	0.00395 U
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	0.0039 J	0.0036 U	0.00395 U
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	0.03	0.0036 U	0.00395 U
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	0.00064 U	0.0036 U	0.00395 U
ANTHRACENE	NA	NA	NA	NA	NA	NA	0.064	0.00288 J	0.00395 U
BAP EQUIVALENT-HALFND	NA	NA	NA	NA	NA	NA	1.20163	0.1334987	0.0050777
BAP EQUIVALENT-POS	NA	NA	NA	NA	NA	NA	1.20163	0.1316987	0.002686
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	0.64	0.0698	0.00395 U
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	0.89 J	0.105	0.00237 J
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	1.4 J	0.132	0.00316 J
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	0.34 J	0.067	0.00395 U
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	0.49 J	0.0457	0.00395 U
CHRYSENE	NA	NA	NA	NA	NA	NA	0.73	0.0817	0.00395 U
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	0.069 J	0.0036 U	0.00395 U
FLUORANTHENE	NA	NA	NA	NA	NA	NA	0.78	0.0835	0.00276 J
FLUORENE	NA	NA	NA	NA	NA	NA	0.016	0.0036 U	0.00395 U
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	0.33 J	0.0598	0.00395 U
NAPHTHALENE	NA	NA	NA	NA	NA	NA	0.0012 U	0.00216 U	0.00237 U
PHENANTHRENE	NA	NA	NA	NA	NA	NA	0.28	0.014	0.00395 U
PYRENE	NA	NA	NA	NA	NA	NA	1.2	0.081	0.00276 J
XRF (MG/KG)									
LEAD	35	32	29	31	0 U	31	0 U	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB117	X7-SB118	X7-SB119	X7-SB120	X7-SB121			X7-SB122
SAMPLE ID	X7-SS117-0002	X7-SS118-0002	X7-SS119-0002	X7-SS120-0002	X7-SS121-0002	X7-SB121-0204	X7-SB121-0406	X7-SS122-0002
SAMPLE DATE	20071006	20071006	20071007	20071006	20071006	20120907	20120907	20071006
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SB	SB	SS
TOP DEPTH	0	0	0	0	0	2	4	0
BOTTOM DEPTH	2	2	2	2	2	4	6	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	26	27	32	23	26	NA	NA	33
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	0.00364 U	0.00448 U	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	0.04	0.00364 U	0.00448 U	0.0018 U
ACENAPHTHENE	NA	NA	NA	NA	0.55 J	0.00364 U	0.00448 U	0.0013 U
ACENAPHTHYLENE	NA	NA	NA	NA	0.00075 U	0.00364 U	0.00448 U	0.00073 U
ANTHRACENE	NA	NA	NA	NA	0.97	0.00364 U	0.00448 U	0.00096 U
BAP EQUIVALENT-HALFND	NA	NA	NA	NA	11.2544	0.00364 U	0.00448 U	0.018147
BAP EQUIVALENT-POS	NA	NA	NA	NA	11.2544	0.00364 U	0.00448 U	0.017547
BENZO(A)ANTHRACENE	NA	NA	NA	NA	6.4	0.00364 U	0.00448 U	0.01
BENZO(A)PYRENE	NA	NA	NA	NA	8.1 J	0.00364 U	0.00448 U	0.014
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	12 J	0.00364 U	0.00448 U	0.02
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	2.9 J	0.00364 U	0.00448 U	0.0057 J
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	4.7 J	0.00364 U	0.00448 U	0.0064 J
CHRYSENE	NA	NA	NA	NA	7.4	0.00364 U	0.00448 U	0.013
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	0.97 J	0.00364 U	0.00448 U	0.0012 U
FLUORANTHENE	NA	NA	NA	NA	8.7	0.00364 U	0.00448 U	0.014
FLUORENE	NA	NA	NA	NA	0.27	0.00364 U	0.00448 U	0.00074 U
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	2.9 J	0.00364 U	0.00448 U	0.0047 J
NAPHTHALENE	NA	NA	NA	NA	0.0014 U	0.00219 U	0.00269 U	0.0013 U
PHENANTHRENE	NA	NA	NA	NA	4.9	0.00364 U	0.00448 U	0.0012 U
PYRENE	NA	NA	NA	NA	14	0.00364 U	0.00448 U	0.015
XRF (MG/KG)								
LEAD	30.67	31.33	37	27	30.67	NA	NA	38

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB123			X7-SB124	X7-SB125	X7-SB126	X7-SB127		
SAMPLE ID	X7-SS123-0002	X7-SB123-0204	X7-SB123-0406	X7-SS124-0002	X7-SS125-0002	X7-SS126-0002	X7-SS127-0002	X7-SS127-0002-	X7-SS127-0002-D
SAMPLE DATE	20071006	20120907	20120907	20071006	20071006	20071007	20071007	20071007	20071007
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	AVG	DUP
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SB	SB	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	2	4	0	0	0	0	0	0
BOTTOM DEPTH	2	4	6	2	2	2	2	2	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	19400	19400	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	0.61 J	0.61 J	NA
ARSENIC	NA	NA	NA	NA	NA	NA	8.84	8.84	NA
BARIUM	NA	NA	NA	NA	NA	NA	145	145	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	0.883	0.883	NA
CADMIUM	NA	NA	NA	NA	NA	NA	1.43	1.43	NA
CALCIUM	NA	NA	NA	NA	NA	NA	3720	3720	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	23.9	23.9	NA
COBALT	NA	NA	NA	NA	NA	NA	14.4	14.4	NA
COPPER	NA	NA	NA	NA	NA	NA	24.7	24.7	NA
IRON	NA	NA	NA	NA	NA	NA	26000	26000	NA
LEAD	NA	NA	NA	NA	NA	NA	25.3	25.3	NA
LEAD-CALC	33	NA	NA	36	28	39	30	30	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	2510	2510	NA
MANGANESE	NA	NA	NA	NA	NA	NA	677	677	NA
NICKEL	NA	NA	NA	NA	NA	NA	17.1	17.1	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	1750	1750	NA
SELENIUM	NA	NA	NA	NA	NA	NA	0.405	0.405	NA
SILVER	NA	NA	NA	NA	NA	NA	0.129	0.129	NA
SODIUM	NA	NA	NA	NA	NA	NA	62.2 U	62.2 U	NA
THALLIUM	NA	NA	NA	NA	NA	NA	0.231	0.231	NA
VANADIUM	NA	NA	NA	NA	NA	NA	38.1	38.1	NA
ZINC	NA	NA	NA	NA	NA	NA	64.4	64.4	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	NA	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	0.007	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	0.095	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	0.027	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
ANTHRACENE	0.17	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	2.2173	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-POS	2.2173	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	1.2	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	1.6 J	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	2.7 J	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	0.73 J	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	0.88 J	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
CHRYSENE	1.5	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	0.15 J	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
FLUORANTHENE	1.3	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
FLUORENE	0.042	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	0.67 J	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
NAPHTHALENE	0.001 U	0.00251 U	0.00237 U	NA	NA	NA	NA	NA	NA
PHENANTHRENE	0.68	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
PYRENE	2.7	0.00418 U	0.00395 U	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	37.5	NA	NA	41.33	32	44.33	35	33.5	32

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB128	X7-SB129	X7-SB130	X7-SB131	X7-SB132	X7-SB133	X7-SB134	X7-SB135	X7-SB136
SAMPLE ID	X7-SS128-0002	X7-SS129-0002	X7-SS130-0002	X7-SS131-0002	X7-SS132-0002	X7-SS133-0002	X7-SS134-0002	X7-SS135-0002	X7-SS136-0002
SAMPLE DATE	20071006	20071006	20071006	20071006	20071006	20071006	20071006	20071006	20071006
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	0	0	0	0	0	0
BOTTOM DEPTH	2	2	2	2	2	2	2	2	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	29	41	32	38	33	27	29	39	26
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	0.0016 U	NA	NA	NA	NA	NA	NA	0.0017 U
ACENAPHTHENE	NA	0.0012 U	NA	NA	NA	NA	NA	NA	0.0012 U
ACENAPHTHYLENE	NA	0.00065 U	NA	NA	NA	NA	NA	NA	0.00068 U
ANTHRACENE	NA	0.0042 J	NA	NA	NA	NA	NA	NA	0.0009 U
BAP EQUIVALENT-HALFND	NA	0.111506	NA	NA	NA	NA	NA	NA	0.001 U
BAP EQUIVALENT-POS	NA	0.110956	NA	NA	NA	NA	NA	NA	0.001 U
BENZO(A)ANTHRACENE	NA	0.055	NA	NA	NA	NA	NA	NA	0.00095 U
BENZO(A)PYRENE	NA	0.088	NA	NA	NA	NA	NA	NA	0.001 U
BENZO(B)FLUORANTHENE	NA	0.13	NA	NA	NA	NA	NA	NA	0.00095 U
BENZO(G,H,I)PERYLENE	NA	0.036	NA	NA	NA	NA	NA	NA	0.001 U
BENZO(K)FLUORANTHENE	NA	0.048	NA	NA	NA	NA	NA	NA	0.00049 U
CHRYSENE	NA	0.076	NA	NA	NA	NA	NA	NA	0.0009 U
DIBENZO(A,H)ANTHRACENE	NA	0.0011 U	NA	NA	NA	NA	NA	NA	0.0011 U
FLUORANTHENE	NA	0.076	NA	NA	NA	NA	NA	NA	0.0009 U
FLUORENE	NA	0.00066 U	NA	NA	NA	NA	NA	NA	0.00069 U
INDENO(1,2,3-CD)PYRENE	NA	0.039	NA	NA	NA	NA	NA	NA	0.0013 U
NAPHTHALENE	NA	0.0012 U	NA	NA	NA	NA	NA	NA	0.0012 U
PHENANTHRENE	NA	0.021	NA	NA	NA	NA	NA	NA	0.0011 U
PYRENE	NA	0.086	NA	NA	NA	NA	NA	NA	0.0032 J
XRF (MG/KG)									
LEAD	33.5	46	37	43.33	37.33	31	34	43.67	30.67

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB137	X7-SB138	X7-SB139	X7-SB140	X7-SB141	X7-SB200		X7-SB201	
SAMPLE ID	X7-SS137-0002	X7-SS138-0002	X7-SS139-0002	X7-SS140-0002	X7-SS141-0002	X7-SS200-0001	X7-SS200-0102	X7-SS201-0001	X7-SS201-0102
SAMPLE DATE	20071006	20071006	20071006	20071006	20071006	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	0	0	0	1	0	1
BOTTOM DEPTH	2	2	2	2	2	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	25	27	40	36	27	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	0.00441 U	0.00478 U	0.318	0.0043 U
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	0.00441 U	0.00478 U	0.362	0.0043 U
ACENAPHTHENE	NA	NA	NA	NA	NA	0.00224 J	0.00478 U	2.3	0.0043 U
ACENAPHTHYLENE	NA	NA	NA	NA	NA	0.00441 U	0.00478 U	0.0403 U	0.0043 U
ANTHRACENE	NA	NA	NA	NA	NA	0.003 J	0.00478 U	2.56	0.0043 U
BAP EQUIVALENT-HALFND	NA	NA	NA	NA	NA	0.0707296	0.0254277	85.2068	0.0067976
BAP EQUIVALENT-POS	NA	NA	NA	NA	NA	0.0707296	0.0254277	85.2068	0.0046261
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	0.0325	0.00938 J	52.3	0.00285 J
BENZO(A)PYRENE	NA	NA	NA	NA	NA	0.0463	0.0163	56.6	0.00349 J
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	0.0627	0.0198	79.4	0.0047 J
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	0.0536	0.0176	48.3	0.00357 J
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	0.0226	0.00776 J	23	0.0043 U
CHRYSENE	NA	NA	NA	NA	NA	0.0436	0.0121	66.8	0.00309 J
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	0.0102	0.00454 J	10.3	0.0043 U
FLUORANTHENE	NA	NA	NA	NA	NA	0.0467	0.0155	61.4	0.00395 J
FLUORENE	NA	NA	NA	NA	NA	0.00441 U	0.00478 U	1.24	0.0043 U
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	0.0444	0.0158	48.4	0.00378 J
NAPHTHALENE	NA	NA	NA	NA	NA	0.00441 U	0.00478 U	1.43	0.0043 U
PHENANTHRENE	NA	NA	NA	NA	NA	0.0166	0.0073 J	13.7	0.0027 J
PYRENE	NA	NA	NA	NA	NA	0.045	0.0147	62.6	0.00398 J
XRF (MG/KG)									
LEAD	29	31	44.67	40.5	31	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB202		X7-SB203				X7-SB204	
SAMPLE ID	X7-SS202-0001	X7-SS202-0102	X7-SS203-0001	X7-SS203-0102	X7-SB203-0204	X7-SB203-0406	X7-SS204-0001	X7-SS204-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20120907	20120907	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SB	SB	SS	SS
TOP DEPTH	0	1	0	1	2	4	0	1
BOTTOM DEPTH	1	2	1	2	4	6	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00261 J	0.00414 U	0.00839	0.00418 U	0.00444 U	0.00407 U	0.00393 U	0.004 U
2-METHYLNAPHTHALENE	0.00284 J	0.00414 U	0.00969	0.00418 U	0.00444 U	0.00407 U	0.00393 U	0.004 U
ACENAPHTHENE	0.0156	0.00414 U	0.0557	0.00584 J	0.00444 U	0.00407 U	0.00811	0.004 U
ACENAPHTHYLENE	0.00408 U	0.00414 U	0.00391 U	0.00418 U	0.00444 U	0.00407 U	0.00393 U	0.004 U
ANTHRACENE	0.0212	0.00414 U	0.0616	0.00653 J	0.00444 U	0.00407 U	0.0111	0.004 U
BAP EQUIVALENT-HALFND	0.869733	0.0080471	2.33583	0.193952	0.0057034	0.009628	0.285403	0.004 U
BAP EQUIVALENT-POS	0.869733	0.0080471	2.33583	0.193952	0.003015	0.007593	0.285403	0.004 U
BENZO(A)ANTHRACENE	0.474	0.0033 J	1.32	0.107	0.00444 U	0.00691 J	0.157 J	0.004 U
BENZO(A)PYRENE	0.589	0.00414 J	1.54	0.127	0.00266 J	0.00569 J	0.187 J	0.004 U
BENZO(B)FLUORANTHENE	0.733	0.00514 J	2.05	0.166	0.00355 J	0.00854	0.241 J	0.004 U
BENZO(G,H,I)PERYLENE	0.531	0.00483 J	1.48	0.117	0.00444 U	0.00366 J	0.19 J	0.004 U
BENZO(K)FLUORANTHENE	0.294	0.00294 J	0.707	0.0614	0.00444 U	0.00285 J	0.091 J	0.004 U
CHRYSENE	0.593	0.00373 J	1.76	0.138	0.00444 U	0.00447 J	0.193 J	0.004 U
DIBENZO(A,H)ANTHRACENE	0.105	0.00266 J	0.307	0.0272	0.00444 U	0.00407 U	0.0397	0.004 U
FLUORANTHENE	0.584	0.00329 J	1.57	0.125	0.00311 J	0.00488 J	0.21 J	0.004 U
FLUORENE	0.00408 U	0.00414 U	0.0288	0.00349 J	0.00444 U	0.00407 U	0.004 J	0.004 U
INDENO(1,2,3-CD)PYRENE	0.515	0.0037 J	1.43	0.117	0.00444 U	0.00325 J	0.178 J	0.004 U
NAPHTHALENE	0.00797 J	0.00414 U	0.0386	0.00698 J	0.00266 U	0.00244 U	0.00393 U	0.004 U
PHENANTHRENE	0.122	0.00215 J	0.347	0.0354	0.00444 U	0.00407 U	0.0657 J	0.004 U
PYRENE	0.598	0.00317 J	1.6	0.128	0.00266 J	0.00488 J	0.211 J	0.004 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB205				X7-SB206		X7-SB207	
SAMPLE ID	X7-SS205-0001	X7-SS205-0102	X7-SS205-0102-	X7-SS205-0102-D	X7-SS206-0001	X7-SS206-0102	X7-SS207-0001	X7-SS207-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	1	1	0	1	0	1
BOTTOM DEPTH	1	2	2	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.00237 J	0.00406 U
2-METHYLNAPHTHALENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.00268 J	0.00406 U
ACENAPHTHENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.0134	0.00406 U
ACENAPHTHYLENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.00395 U	0.00406 U
ANTHRACENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.0208	0.00406 U
BAP EQUIVALENT-HALFND	0.033011	0.0054973	0.0037737	0.0041 U	0.00425 U	0.0068793	0.610751	0.0094546
BAP EQUIVALENT-POS	0.030891	0.0032884	0.0032884	0.0041 U	0.00425 U	0.004627	0.610751	0.0074246
BENZO(A)ANTHRACENE	0.019	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00228 J	0.35	0.00412 J
BENZO(A)PYRENE	0.0234	0.00265 J	0.00265 J	0.0041 U	0.00425 U	0.00373 J	0.419	0.00585 J
BENZO(B)FLUORANTHENE	0.0311	0.00349 J	0.00349 J	0.0041 U	0.00425 U	0.00396 J	0.55	0.00655 J
BENZO(G,H,I)PERYLENE	0.0251	0.00256 J	0.00256 J	0.0041 U	0.00425 U	0.00348 J	0.344	0.0051 J
BENZO(K)FLUORANTHENE	0.0117	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.22	0.00276 J
CHRYSENE	0.024	0.00244 J	0.00244 J	0.0041 U	0.00425 U	0.00303 J	0.451	0.00502 J
DIBENZO(A,H)ANTHRACENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.0658	0.00406 U
FLUORANTHENE	0.0258	0.00304 J	0.00304 J	0.0041 U	0.00425 U	0.00405 J	0.457	0.00692 J
FLUORENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.00682 J	0.00406 U
INDENO(1,2,3-CD)PYRENE	0.0234	0.00287 J	0.00287 J	0.0041 U	0.00425 U	0.0027 J	0.333	0.00475 J
NAPHTHALENE	0.00424 U	0.00398 U	0.00404 U	0.0041 U	0.00425 U	0.00446 U	0.00727 J	0.00406 U
PHENANTHRENE	0.00904	0.00211 J	0.00211 J	0.0041 U	0.00222 J	0.00297 J	0.122	0.00419 J
PYRENE	0.0256	0.00289 J	0.00289 J	0.0041 U	0.00425 U	0.00369 J	0.449	0.00651 J
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB208		X7-SB209		X7-SB210		X7-SB211	
SAMPLE ID	X7-SS208-0001	X7-SS208-0102	X7-SS209-0001	X7-SS209-0102	X7-SS210-0001	X7-SS210-0102	X7-SS211-0001	X7-SS211-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	1	0	1	0	1
BOTTOM DEPTH	1	2	1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00517 J	0.00405 U	0.00413 U	0.00393 U	0.00211 J	0.00387 U	0.00718 J	0.00417 U
2-METHYLNAPHTHALENE	0.00612 J	0.00405 U	0.00413 U	0.00393 U	0.0026 J	0.00387 U	0.00874	0.00417 U
ACENAPHTHENE	0.0308	0.00405 U	0.00588 J	0.00393 U	0.00971	0.00387 U	0.0472	0.00417 U
ACENAPHTHYLENE	0.00416 U	0.00405 U	0.00413 U	0.00393 U	0.00401 U	0.00387 U	0.00416 U	0.00417 U
ANTHRACENE	0.0361	0.00405 U	0.00774 J	0.00393 U	0.0126	0.00387 U	0.0588	0.00417 U
BAP EQUIVALENT-HALFND	1.313653	0.0111296	0.254496	0.0168599	0.486324	0.0098719	1.71729	0.0133225
BAP EQUIVALENT-POS	1.313653	0.0091046	0.254496	0.0168599	0.486324	0.0079369	1.71729	0.0133225
BENZO(A)ANTHRACENE	0.695	0.00555 J	0.135	0.00781 J	0.287 J	0.00507 J	1.03	0.00672 J
BENZO(A)PYRENE	0.873	0.00686 J	0.169	0.0108	0.324 J	0.00591 J	1.14	0.00795 J
BENZO(B)FLUORANTHENE	1.24	0.0092	0.226	0.0139	0.442	0.00865	1.59	0.0102
BENZO(G,H,I)PERYLENE	0.764	0.00668 J	0.161	0.00976	0.291 J	0.00638 J	1.02	0.0075 J
BENZO(K)FLUORANTHENE	0.382	0.00371 J	0.0823	0.00591 J	0.157 J	0.00357 J	0.491	0.00397 J
CHRYSENE	0.933	0.00645 J	0.173	0.0108	0.354	0.00615 J	1.38	0.00784 J
DIBENZO(A,H)ANTHRACENE	0.168	0.00405 U	0.0335	0.00286 J	0.0589	0.00387 U	0.209	0.00298 J
FLUORANTHENE	0.886	0.00695 J	0.171	0.0103	0.342	0.0059 J	1.3	0.00839
FLUORENE	0.0145	0.00405 U	0.00296 J	0.00393 U	0.00401 U	0.00387 U	0.0235	0.00417 U
INDENO(1,2,3-CD)PYRENE	0.744	0.00726 J	0.149	0.00959	0.286 J	0.00613 J	1	0.00653 J
NAPHTHALENE	0.02	0.00405 U	0.00413 U	0.00393 U	0.00819	0.00387 U	0.0247	0.00417 U
PHENANTHRENE	0.204	0.00273 J	0.0435	0.00351 J	0.0717	0.00201 J	0.337	0.00341 J
PYRENE	0.907	0.00661 J	0.173	0.0103	0.348	0.00546 J	1.3	0.00807 J
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB212		X7-SB213		X7-SB214	
SAMPLE ID	X7-SS212-0001	X7-SS212-0102	X7-SS213-0001	X7-SS213-0102	X7-SS214-0001	X7-SS214-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	1	0	1
BOTTOM DEPTH	1	2	1	2	1	2
METALS (MG/KG)						
ALUMINUM	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.0777 J	0.00369 U
2-METHYLNAPHTHALENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.102	0.00369 U
ACENAPHTHENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.535	0.00369 U
ACENAPHTHYLENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.0394 U	0.00369 U
ANTHRACENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.719	0.00369 U
BAP EQUIVALENT-HALFND	0.0048074	0.00407 U	0.0300218	0.00401 U	35.0757	0.00369 U
BAP EQUIVALENT-POS	0.000501	0.00407 U	0.0300218	0.00401 U	35.0757	0.00369 U
BENZO(A)ANTHRACENE	0.00408 U	0.00407 U	0.0146	0.00401 U	24	0.00369 U
BENZO(A)PYRENE	0.00408 U	0.00407 U	0.0174	0.00401 U	23.5	0.00369 U
BENZO(B)FLUORANTHENE	0.00271 J	0.00407 U	0.0248	0.00401 U	30.2	0.00369 U
BENZO(G,H,I)PERYLENE	0.00286 J	0.00407 U	0.0191	0.00401 U	18.8	0.00369 U
BENZO(K)FLUORANTHENE	0.00408 U	0.00407 U	0.00929	0.00401 U	12.8	0.00369 U
CHRYSENE	0.00408 U	0.00407 U	0.0189	0.00401 U	27.7	0.00369 U
DIBENZO(A,H)ANTHRACENE	0.00408 U	0.00407 U	0.00662 J	0.00401 U	4.08	0.00369 U
FLUORANTHENE	0.00408 U	0.00407 U	0.0183	0.00401 U	23.2	0.00369 U
FLUORENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.303	0.00369 U
INDENO(1,2,3-CD)PYRENE	0.0023 J	0.00407 U	0.0195	0.00401 U	19.2	0.00369 U
NAPHTHALENE	0.00408 U	0.00407 U	0.00408 U	0.00401 U	0.309	0.00369 U
PHENANTHRENE	0.00408 U	0.00407 U	0.00529 J	0.00401 U	3.73	0.00369 U
PYRENE	0.00408 U	0.00407 U	0.0183	0.00401 U	24.2	0.00369 U
XRF (MG/KG)						
LEAD	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB215				X7-SB216		X7-SB217	
SAMPLE ID	X7-SS215-0001	X7-SS215-0102	X7-SS215-0102-	X7-SS215-0102-D	X7-SS216-0001	X7-SS216-0102	X7-SS217-0001	X7-SS217-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	1	1	0	1	0	1
BOTTOM DEPTH	1	2	2	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.00499 J	0.00406 U
2-METHYLNAPHTHALENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.00574 J	0.00406 U
ACENAPHTHENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.0326	0.00406 U
ACENAPHTHYLENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.00402 U	0.00406 U
ANTHRACENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.0434	0.00208 J
BAP EQUIVALENT-HALFND	0.0055201	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	1.46853	0.0498275
BAP EQUIVALENT-POS	0.0033991	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	1.46853	0.0498275
BENZO(A)ANTHRACENE	0.00288 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.907	0.028
BENZO(A)PYRENE	0.00258 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.968	0.0324
BENZO(B)FLUORANTHENE	0.00246 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	1.26	0.0444
BENZO(G,H,I)PERYLENE	0.00264 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.893	0.0322
BENZO(K)FLUORANTHENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.513	0.0161
CHRYSENE	0.00212 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	1.2	0.0365
DIBENZO(A,H)ANTHRACENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.191	0.00692 J
FLUORANTHENE	0.00268 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	1.07	0.0334
FLUORENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.0166	0.00406 U
INDENO(1,2,3-CD)PYRENE	0.00283 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.865	0.0307
NAPHTHALENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.0204	0.00406 U
PHENANTHRENE	0.0042 U	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	0.239	0.00921
PYRENE	0.00259 J	0.00417 U	0.004185 U	0.0042 U	0.00429 U	0.00404 U	1.09	0.0336
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB218		X7-SB219		X7-SB220		X7-SB221	
SAMPLE ID	X7-SS218-0001	X7-SS218-0102	X7-SS219-0001	X7-SS219-0102	X7-SS220-0001	X7-SS220-0102	X7-SS221-0001	X7-SS221-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	1	0	1	0	1
BOTTOM DEPTH	1	2	1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00505 J	0.00398 U	0.004 U	0.00385 U	0.00409 U	0.00384 U	0.00395 U	0.00401 U
2-METHYLNAPHTHALENE	0.00605 J	0.00398 U	0.004 U	0.00385 U	0.00409 U	0.00384 U	0.00395 U	0.00401 U
ACENAPHTHENE	0.03	0.00398 U	0.00324 J	0.00385 U	0.00944	0.00384 U	0.00395 U	0.00401 U
ACENAPHTHYLENE	0.00417 U	0.00398 U	0.004 U	0.00385 U	0.00409 U	0.00384 U	0.00395 U	0.00401 U
ANTHRACENE	0.0387	0.00398 U	0.00454 J	0.00385 U	0.015	0.00384 U	0.00395 U	0.00401 U
BAP EQUIVALENT-HALFND	1.44773	0.009222	0.1289741	0.00385 U	0.284408	0.0100045	0.0047027	0.00401 U
BAP EQUIVALENT-POS	1.44773	0.007232	0.1289741	0.00385 U	0.284408	0.0078906	0.000336	0.00401 U
BENZO(A)ANTHRACENE	0.862	0.00428 J	0.0657	0.00385 U	0.157	0.00384 U	0.00395 U	0.00401 U
BENZO(A)PYRENE	0.958	0.00562 J	0.0872	0.00385 U	0.19	0.00646 J	0.00395 U	0.00401 U
BENZO(B)FLUORANTHENE	1.36	0.0064 J	0.115	0.00385 U	0.237	0.00869	0.00336 J	0.00401 U
BENZO(G,H,I)PERYLENE	0.852	0.00572 J	0.0821	0.00385 U	0.186	0.006 J	0.00395 U	0.00401 U
BENZO(K)FLUORANTHENE	0.406	0.00314 J	0.0492	0.00385 U	0.101	0.00346 J	0.00395 U	0.00401 U
CHRYSENE	1.17	0.00558 J	0.0921	0.00385 U	0.198	0.00384 U	0.00395 U	0.00401 U
DIBENZO(A,H)ANTHRACENE	0.178	0.00398 U	0.0151	0.00385 U	0.0364	0.00384 U	0.00395 U	0.00401 U
FLUORANTHENE	1	0.00604 J	0.0927	0.00385 U	0.247	0.00587 J	0.00256 J	0.00401 U
FLUORENE	0.0151	0.00398 U	0.004 U	0.00385 U	0.00433 J	0.00384 U	0.00395 U	0.00401 U
INDENO(1,2,3-CD)PYRENE	0.843	0.00507 J	0.0802	0.00385 U	0.174	0.00527 J	0.00395 U	0.00401 U
NAPHTHALENE	0.02	0.00398 U	0.004 U	0.00385 U	0.00409 U	0.00384 U	0.00395 U	0.00401 U
PHENANTHRENE	0.217	0.00289 J	0.0248	0.00385 U	0.0848	0.00228 J	0.00395 U	0.00401 U
PYRENE	1.03	0.00551 J	0.0926	0.00385 U	0.241	0.00596 J	0.00269 J	0.00401 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB222				X7-SB223		X7-SB224	X7-SB225	
SAMPLE ID	X7-SS222-0001	X7-SS222-0001-AVG	X7-SS222-0001-D	X7-SS222-0102	X7-SS223-0001	X7-SS223-0102	X7-SS224-0001	X7-SS225-0001	X7-SS225-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	1	0	1	0	0	1
BOTTOM DEPTH	1	1	1	2	1	2	1	1	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	0.004 U	0.00392 U	0.00384 U	0.004 U	0.00408 U	0.00393 U	0.00423 U	0.00369 U	0.00384 U
2-METHYLNAPHTHALENE	0.004 U	0.00215 J	0.00215 J	0.004 U	0.00213 J	0.00393 U	0.00423 U	0.00369 U	0.00384 U
ACENAPHTHENE	0.00562 J	0.00713	0.00864	0.004 U	0.00321 J	0.00393 U	0.00423 U	0.00232 J	0.00384 U
ACENAPHTHYLENE	0.004 U	0.00392 U	0.00384 U	0.004 U	0.00408 U	0.00393 U	0.00423 U	0.00369 U	0.00384 U
ANTHRACENE	0.00873	0.010415	0.0121	0.004 U	0.00438 J	0.00393 U	0.00423 U	0.00194 J	0.00384 U
BAP EQUIVALENT-HALFND	0.246147	0.304726	0.363305	0.0093202	0.1068119	0.0062656	0.0210992	0.0563147	0.0045518
BAP EQUIVALENT-POS	0.246147	0.304726	0.363305	0.0069182	0.1068119	0.003886	0.0189842	0.0544697	0.0005179
BENZO(A)ANTHRACENE	0.119 J	0.1455	0.172	0.004 U	0.0498	0.00393 U	0.0105	0.0273	0.00384 U
BENZO(A)PYRENE	0.168 J	0.208	0.248	0.00617 J	0.072	0.00352 J	0.014	0.0423	0.00384 U
BENZO(B)FLUORANTHENE	0.207 J	0.2675	0.328	0.0071 J	0.0923	0.00366 J	0.0216	0.0579	0.00295 J
BENZO(G,H,I)PERYLENE	0.155 J	0.192	0.229	0.00562 J	0.067	0.00393 U	0.0159	0.0377	0.00384 U
BENZO(K)FLUORANTHENE	0.0796 J	0.0988	0.118	0.00382 J	0.0308	0.00393 U	0.00699 J	0.0183	0.00229 J
CHRYSENE	0.151 J	0.188	0.225	0.004 U	0.0639	0.00393 U	0.0143	0.0367	0.00384 U
DIBENZO(A,H)ANTHRACENE	0.0294	0.0356	0.0418	0.004 U	0.0139	0.00393 U	0.00423 U	0.00369 U	0.00384 U
FLUORANTHENE	0.164 J	0.2085	0.253	0.00683 J	0.0816	0.00326 J	0.0184	0.0425	0.00218 J
FLUORENE	0.00296 J	0.003735	0.00451 J	0.004 U	0.00408 U	0.00393 U	0.00423 U	0.00369 U	0.00384 U
INDENO(1,2,3-CD)PYRENE	0.152 J	0.1865	0.221	0.004 U	0.0633	0.00393 U	0.0169	0.0343	0.002 J
NAPHTHALENE	0.004 U	0.00392 U	0.00384 U	0.004 U	0.00408 U	0.00393 U	0.00423 U	0.00369 U	0.00384 U
PHENANTHRENE	0.0484	0.0574	0.0664	0.00402 J	0.0277	0.00257 J	0.00895	0.0132	0.00203 J
PYRENE	0.156 J	0.2025	0.249	0.00655 J	0.0788	0.00311 J	0.0172	0.0416	0.00225 J
XRF (MG/KG)									
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB226		X7-SB227			X7-SB228		X7-SB229	
SAMPLE ID	X7-SS226-0001	X7-SS226-0102	X7-SS227-0001	X7-SB227-0204	X7-SB227-0406	X7-SS228-0001	X7-SS228-0102	X7-SS229-0001	X7-SS229-0102
SAMPLE DATE	20111110	20111110	20111110	20120907	20120907	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SB	SB	SS	SS	SS	SS
TOP DEPTH	0	1	0	2	4	0	1	0	1
BOTTOM DEPTH	1	2	1	4	6	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	0.00395 U	0.00393 U	0.00406 U	0.00371 U	0.00402 U	0.00412 U	0.00389 U	0.0259 J	0.00405 U
2-METHYLNAPHTHALENE	0.00395 U	0.00393 U	0.00406 U	0.00371 U	0.00402 U	0.00412 U	0.00389 U	0.0294 J	0.00405 U
ACENAPHTHENE	0.00451 J	0.00393 U	0.00432 J	0.00371 U	0.00402 U	0.00262 J	0.00389 U	0.141	0.00405 U
ACENAPHTHYLENE	0.00395 U	0.00393 U	0.00406 U	0.00371 U	0.00402 U	0.00412 U	0.00389 U	0.039 U	0.00405 U
ANTHRACENE	0.00613 J	0.00393 U	0.00545 J	0.00371 U	0.00402 U	0.00363 J	0.00389 U	0.147	0.00405 U
BAP EQUIVALENT-HALFND	0.296375	0.00393 U	0.1679384	0.00371 U	0.00402 U	0.1188853	0.0129291	5.49382	0.0087138
BAP EQUIVALENT-POS	0.296375	0.00393 U	0.1679384	0.00371 U	0.00402 U	0.1188853	0.0129291	5.49382	0.0066888
BENZO(A)ANTHRACENE	0.136	0.00393 U	0.0735	0.00371 U	0.00402 U	0.0553	0.00583 J	2.79	0.00394 J
BENZO(A)PYRENE	0.2	0.00393 U	0.111	0.00371 U	0.00402 U	0.079	0.00847	3.66	0.00513 J
BENZO(B)FLUORANTHENE	0.252	0.00393 U	0.148	0.00371 U	0.00402 U	0.102	0.00992	4.79	0.00627 J
BENZO(G,H,I)PERYLENE	0.177	0.00393 U	0.113	0.00371 U	0.00402 U	0.0821	0.00842	3.54	0.00525 J
BENZO(K)FLUORANTHENE	0.101	0.00393 U	0.0489	0.00371 U	0.00402 U	0.0355	0.00325 J	1.73	0.00243 J
CHRYSENE	0.165	0.00393 U	0.0994	0.00371 U	0.00402 U	0.0703	0.00759 J	3.52	0.00452 J
DIBENZO(A,H)ANTHRACENE	0.0391	0.00393 U	0.0238	0.00371 U	0.00402 U	0.0161	0.00211 J	0.729	0.00405 U
FLUORANTHENE	0.167	0.00393 U	0.111	0.00371 U	0.00402 U	0.0776	0.00827	3.57	0.00583 J
FLUORENE	0.00395 U	0.00393 U	0.00246 J	0.00371 U	0.00402 U	0.00412 U	0.00389 U	0.0733 J	0.00405 U
INDENO(1,2,3-CD)PYRENE	0.173	0.00393 U	0.104	0.00371 U	0.00402 U	0.0763	0.00734 J	3.26	0.00509 J
NAPHTHALENE	0.00395 U	0.00393 U	0.00406 U	0.00222 U	0.00241 U	0.00412 U	0.00389 U	0.0949	0.00405 U
PHENANTHRENE	0.0311	0.00393 U	0.0322	0.00371 U	0.00402 U	0.02	0.00348 J	0.832	0.00317 J
PYRENE	0.169	0.00393 U	0.109	0.00371 U	0.00402 U	0.0767	0.00776 J	3.65	0.0052 J
XRF (MG/KG)									
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB230		X7-SB231	X7-SB232		X7-SB233		X7-SB234	
SAMPLE ID	X7-SS230-0001	X7-SS230-0102	X7-SS231-0001	X7-SS232-0001	X7-SS232-0102	X7-SS233-0001	X7-SS233-0102	X7-SS234-0001	X7-SS234-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20111110
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	0	1	0	1	0	1
BOTTOM DEPTH	1	2	1	1	2	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	0.00413 U	0.00392 U	0.00389 U	0.0968	0.00384 U	0.00401 U	0.00384 U	0.0039 U	0.00405 U
2-METHYLNAPHTHALENE	0.00413 U	0.00392 U	0.00389 U	0.139	0.00384 U	0.00401 U	0.00384 U	0.0039 U	0.00405 U
ACENAPHTHENE	0.00805 J	0.00392 U	0.00389 U	1.18	0.00384 U	0.00318 J	0.00384 U	0.00447 J	0.00405 U
ACENAPHTHYLENE	0.00413 U	0.00392 U	0.00389 U	0.041 U	0.00384 U	0.00401 U	0.00384 U	0.0039 U	0.00405 U
ANTHRACENE	0.00946	0.00392 U	0.00389 U	3.33	0.00384 U	0.00433 J	0.00384 U	0.0069 J	0.00405 U
BAP EQUIVALENT-HALFND	0.292371	0.016124	0.0099804	9.09369	0.0045421	0.1361289	0.00384 U	0.1377372	0.0285492
BAP EQUIVALENT-POS	0.292371	0.016124	0.007839	9.09369	0.000681	0.1361289	0.00384 U	0.1377372	0.0265242
BENZO(A)ANTHRACENE	0.144	0.00755 J	0.00389 U	8.11	0.00193 J	0.0683	0.00384 U	0.0763 J	0.0152
BENZO(A)PYRENE	0.193	0.0101	0.00649 J	5.93	0.00384 U	0.0901	0.00384 U	0.0914 J	0.0203
BENZO(B)FLUORANTHENE	0.251	0.014	0.00759 J	7.62	0.00276 J	0.121	0.00384 U	0.124 J	0.0256
BENZO(G,H,I)PERYLENE	0.191	0.0121	0.00594 J	4.25	0.00235 J	0.0883	0.00384 U	0.0993 J	0.0224
BENZO(K)FLUORANTHENE	0.0895	0.00502 J	0.003 J	3.22	0.00384 U	0.0426	0.00384 U	0.0451 J	0.00955
CHRYSENE	0.176	0.00883	0.00389 U	7.49	0.00384 U	0.0829	0.00384 U	0.0862 J	0.0187
DIBENZO(A,H)ANTHRACENE	0.0405	0.00275 J	0.00389 U	1.08	0.00384 U	0.0179	0.00384 U	0.0175	0.00405 U
FLUORANTHENE	0.185	0.0101	0.00541 J	16.4	0.00208 J	0.0886	0.00384 U	0.115 J	0.0258
FLUORENE	0.00445 J	0.00392 U	0.00389 U	1.3	0.00384 U	0.00401 U	0.00384 U	0.0039 U	0.00405 U
INDENO(1,2,3-CD)PYRENE	0.183	0.0106	0.0056 J	4.71	0.00212 J	0.0869	0.00384 U	0.0827 J	0.0203
NAPHTHALENE	0.00413 U	0.00392 U	0.00389 U	0.313	0.00384 U	0.00401 U	0.00384 U	0.0039 U	0.00405 U
PHENANTHRENE	0.0557	0.00402 J	0.00281 J	11.3	0.00384 U	0.0252	0.00384 U	0.0418 J	0.0103
PYRENE	0.183	0.01	0.00473 J	13.1	0.00197 J	0.0877	0.00384 U	0.111 J	0.0231
XRF (MG/KG)									
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB237	X7-SB238	X7-SB239	X7-SB240		X7-SB241		X7-SB439	
SAMPLE ID	X7-SS237-0001	X7-SS238-0001	X7-SS239-0001	X7-SS240-0001	X7-SS240-0102	X7-SS241-0001	X7-SS241-0102	X7-SS439-0001	X7-SS439-0102
SAMPLE DATE	20111110	20111110	20111110	20111110	20111110	20111110	20111110	20120907	20120907
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	0	1	0	1	0	1
BOTTOM DEPTH	1	1	1	1	2	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)									
1-METHYLNAPHTHALENE	0.00438 U	0.00411 U	0.00434 U	0.00395 U	0.00381 U	0.00278 J	0.00405 U	0.00409 U	0.00386 U
2-METHYLNAPHTHALENE	0.00438 U	0.00411 U	0.00434 U	0.00395 U	0.00381 U	0.00338 J	0.00405 U	0.00409 U	0.00386 U
ACENAPHTHENE	0.00438 U	0.00411 U	0.00434 U	0.00251 J	0.00381 U	0.0137	0.00405 U	0.00409 U	0.00386 U
ACENAPHTHYLENE	0.00438 U	0.00411 U	0.00434 U	0.00395 U	0.00381 U	0.00388 U	0.00405 U	0.00409 U	0.00386 U
ANTHRACENE	0.00438 U	0.00411 U	0.00434 U	0.00386 J	0.00381 U	0.0203	0.00405 U	0.00409 U	0.00386 U
BAP EQUIVALENT-HALFND	0.0082031	0.0163305	0.0144026	0.0725538	0.0061177	0.666454	0.0327628	0.00409 U	0.00386 U
BAP EQUIVALENT-POS	0.00577	0.0142755	0.0122326	0.0725538	0.0041937	0.666454	0.0327628	0.00409 U	0.00386 U
BENZO(A)ANTHRACENE	0.00438 U	0.00747 J	0.00671 J	0.0379	0.00221 J	0.342	0.0139	0.00409 U	0.00386 U
BENZO(A)PYRENE	0.00467 J	0.0112	0.00939	0.0486	0.00323 J	0.444	0.0212	0.00409 U	0.00386 U
BENZO(B)FLUORANTHENE	0.00644 J	0.0134	0.0123	0.0621	0.00427 J	0.624	0.0304	0.00409 U	0.00386 U
BENZO(G,H,I)PERYLENE	0.00526 J	0.0105	0.0091	0.0492	0.00381 U	0.406	0.0196	0.00409 U	0.00386 U
BENZO(K)FLUORANTHENE	0.00438 U	0.00565 J	0.00518 J	0.0248	0.00381 U	0.193	0.00854	0.00409 U	0.00386 U
CHRYSENE	0.00438 U	0.00897	0.00878	0.0458	0.00267 J	0.424	0.0174	0.00409 U	0.00386 U
DIBENZO(A,H)ANTHRACENE	0.00438 U	0.00411 U	0.00434 U	0.00907	0.00381 U	0.0845	0.00503 J	0.00409 U	0.00386 U
FLUORANTHENE	0.00588 J	0.0128	0.0102	0.0597	0.00342 J	0.451	0.0192	0.00409 U	0.00386 U
FLUORENE	0.00438 U	0.00411 U	0.00434 U	0.00395 U	0.00381 U	0.00716 J	0.00405 U	0.00409 U	0.00386 U
INDENO(1,2,3-CD)PYRENE	0.00456 J	0.00923	0.00881	0.0459	0.00313 J	0.39	0.02	0.00409 U	0.00386 U
NAPHTHALENE	0.00438 U	0.00411 U	0.00434 U	0.00395 U	0.00381 U	0.00718 J	0.00405 U	0.00245 U	0.00232 U
PHENANTHRENE	0.00381 J	0.00597 J	0.00536 J	0.0233	0.00208 J	0.111	0.00591 J	0.00409 U	0.00386 U
PYRENE	0.00465 J	0.0127	0.00944	0.058	0.0033 J	0.451	0.0194	0.00409 U	0.00386 U
XRF (MG/KG)									
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB441		X7-SB442					
SAMPLE ID	X7-SS441-0001	X7-SS441-0102	X7-SS442-0001	X7-SS442-0001-AVG	X7-SS442-0001-D	X7-SS442-0102	X7-SS442-0102-AVG	X7-SS442-0102-D
SAMPLE DATE	20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE	NORMAL	NORMAL	ORIG	AVG	DUP	ORIG	AVG	DUP
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	0	0	1	1	1
BOTTOM DEPTH	1	2	1	1	1	2	2	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00426 U	0.00415 U	0.00411 U	0.00407 U	0.00403 U	0.00404 U	0.00404 U	0.00404 U
2-METHYLNAPHTHALENE	0.00426 U	0.00415 U	0.00411 U	0.00407 U	0.00403 U	0.00404 U	0.00404 U	0.00404 U
ACENAPHTHENE	0.00938 J	0.00415 U	0.00247 J	0.00247 J	0.00403 U	0.00404 U	0.00404 U	0.00404 U
ACENAPHTHYLENE	0.00426 U	0.00415 U	0.00411 U	0.00407 U	0.00403 U	0.00404 U	0.00404 U	0.00404 U
ANTHRACENE	0.0145	0.00415 U	0.00411 J	0.003265	0.00242 J	0.00404 U	0.00404 U	0.00404 U
BAP EQUIVALENT-HALFND	0.372832	0.00415 U	0.1560531	0.123443	0.0908328	0.00404 U	0.00404 U	0.00404 U
BAP EQUIVALENT-POS	0.372832	0.00415 U	0.1560531	0.123443	0.0908328	0.00404 U	0.00404 U	0.00404 U
BENZO(A)ANTHRACENE	0.18	0.00415 U	0.081	0.0657	0.0504	0.00404 U	0.00404 U	0.00404 U
BENZO(A)PYRENE	0.285	0.00415 U	0.121 J	0.09495	0.0689 J	0.00404 U	0.00404 U	0.00404 U
BENZO(B)FLUORANTHENE	0.402	0.00415 U	0.17 J	0.13295	0.0959 J	0.00404 U	0.00404 U	0.00404 U
BENZO(G,H,I)PERYLENE	0.191	0.00415 U	0.0786	0.0639	0.0492	0.00404 U	0.00404 U	0.00404 U
BENZO(K)FLUORANTHENE	0.139	0.00415 U	0.0596 J	0.0457	0.0318 J	0.00404 U	0.00404 U	0.00404 U
CHRYSENE	0.242	0.00415 U	0.0971 J	0.07595	0.0548 J	0.00404 U	0.00404 U	0.00404 U
DIBENZO(A,H)ANTHRACENE	0.0119	0.00415 U	0.00247 J	0.002645	0.00282 J	0.00404 U	0.00404 U	0.00404 U
FLUORANTHENE	0.267	0.00415 U	0.107 J	0.0839	0.0608 J	0.00404 U	0.00404 U	0.00404 U
FLUORENE	0.00512 J	0.00415 U	0.00411 U	0.00407 U	0.00403 U	0.00404 U	0.00404 U	0.00404 U
INDENO(1,2,3-CD)PYRENE	0.161	0.00415 U	0.0679	0.0545	0.0411	0.00404 U	0.00404 U	0.00404 U
NAPHTHALENE	0.00256 U	0.00249 U	0.00247 U	0.002445 U	0.00242 U	0.00242 U	0.00242 U	0.00242 U
PHENANTHRENE	0.0865	0.00415 U	0.0259	0.0208	0.0157	0.00404 U	0.00404 U	0.00404 U
PYRENE	0.315	0.00415 U	0.129	0.1034	0.0778	0.00404 U	0.00404 U	0.00404 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB443		X7-SB445		X7-SB446			
SAMPLE ID	X7-SS443-0001	X7-SS443-0102	X7-SS445-0001	X7-SS445-0102	X7-SS446-0001	X7-SS446-0102	X7-SB446-0204	X7-SB446-0406
SAMPLE DATE	20121003	20121003	20120907	20120907	20120907	20120907	20120907	20120907
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH	0	1	0	1	0	1	2	4
BOTTOM DEPTH	1	2	1	2	1	2	4	6
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00413 U	0.0041 U	0.00406 U	0.00378 U	0.0134	0.0038 U	0.00404 U	0.00384 U
2-METHYLNAPHTHALENE	0.00413 U	0.0041 U	0.00406 U	0.00378 U	0.0162	0.0038 U	0.00404 U	0.00384 U
ACENAPHTHENE	0.00413 U	0.0041 U	0.00203 J	0.00378 U	0.079	0.0038 U	0.00404 U	0.00384 U
ACENAPHTHYLENE	0.00413 U	0.0041 U	0.00406 U	0.00378 U	0.00405 U	0.0038 U	0.00404 U	0.00384 U
ANTHRACENE	0.00206 J	0.0041 U	0.011	0.00378 U	0.0907	0.0038 U	0.00404 U	0.00384 U
BAP EQUIVALENT-HALFND	0.0469703	0.0041 U	0.0577637	0.00378 U	3.059995	0.0429134	0.0093667	0.0044371
BAP EQUIVALENT-POS	0.0449053	0.0041 U	0.0557337	0.00378 U	3.05797	0.0410134	0.0093667	0.00192
BENZO(A)ANTHRACENE	0.0289 J	0.0041 U	0.0435	0.00378 U	1.77	0.0216	0.00646 J	0.00384 U
BENZO(A)PYRENE	0.0351 J	0.0041 U	0.0435	0.00378 U	2.43	0.0326	0.00485 J	0.00384 U
BENZO(B)FLUORANTHENE	0.0462 J	0.0041 U	0.0536	0.00378 U	3.17	0.0399	0.00525 J	0.00384 U
BENZO(G,H,I)PERYLENE	0.0239 J	0.0041 U	0.0248	0.00378 U	1.33	0.0247	0.00525 U	0.00384 U
BENZO(K)FLUORANTHENE	0.0206 J	0.0041 U	0.0207	0.00378 U	0.968	0.0148	0.00283 J	0.00384 U
CHRYSENE	0.0293 J	0.0041 U	0.0467	0.00378 U	2.29	0.0254	0.00242 J	0.00384 U
DIBENZO(A,H)ANTHRACENE	0.00413 U	0.0041 U	0.00406 U	0.00378 U	0.00405 U	0.0038 U	0.00283 J	0.00192 J
FLUORANTHENE	0.0318 J	0.0041 U	0.0808	0.00378 U	2.61	0.0247	0.00283 J	0.00384 U
FLUORENE	0.00413 UJ	0.0041 U	0.00365 J	0.00378 U	0.0421	0.0038 U	0.00404 U	0.00384 U
INDENO(1,2,3-CD)PYRENE	0.0206 J	0.0041 U	0.0227	0.00378 U	1.22	0.0209	0.00485 J	0.00384 U
NAPHTHALENE	0.00248 U	0.00246 U	0.00244 U	0.00227 U	0.0547	0.00228 U	0.00525 J	0.00346 J
PHENANTHRENE	0.012 J	0.0041 U	0.0447	0.00378 U	0.432	0.00342 J	0.00404 U	0.00384 U
PYRENE	0.0417 J	0.0041 U	0.0589	0.00378 U	2.5	0.0197	0.00242 J	0.00384 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB447		X7-SB448		X7-SB449		X7-SB451	
SAMPLE ID	X7-SS447-0001	X7-SS447-0102	X7-SS448-0001	X7-SS448-0102	X7-SS449-0001	X7-SS449-0102	X7-SS451-0001	X7-SS451-0102
SAMPLE DATE	20120907	20120907	20120907	20120907	20120907	20120907	20120906	20120906
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	1	0	1	0	1
BOTTOM DEPTH	1	2	1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00405 U	0.00379 U	0.0042 U	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
2-METHYLNAPHTHALENE	0.00405 U	0.00379 U	0.0042 U	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
ACENAPHTHENE	0.013	0.00379 U	0.0105	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
ACENAPHTHYLENE	0.00405 U	0.00379 U	0.0042 U	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
ANTHRACENE	0.0215	0.00379 U	0.013	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
BAP EQUIVALENT-HALFND	0.352497	0.0064737	0.196611	0.00385 U	0.0461529	0.00382 U	0.0154835	0.00357 U
BAP EQUIVALENT-POS	0.350472	0.0043703	0.194511	0.00385 U	0.0440679	0.00382 U	0.0134135	0.00357 U
BENZO(A)ANTHRACENE	0.202	0.00569 J	0.101	0.00385 U	0.0246	0.00382 U	0.0103	0.00357 U
BENZO(A)PYRENE	0.28	0.00342 J	0.156	0.00385 U	0.0346	0.00382 U	0.0103	0.00357 U
BENZO(B)FLUORANTHENE	0.33	0.00379 J	0.197	0.00385 U	0.0458	0.00382 U	0.0141	0.00357 U
BENZO(G,H,I)PERYLENE	0.179	0.00228 J	0.0915	0.00385 U	0.0263	0.00382 U	0.00703 J	0.00357 U
BENZO(K)FLUORANTHENE	0.134	0.00379 U	0.0655	0.00385 U	0.015	0.00382 U	0.00455 J	0.00357 U
CHRYSENE	0.232	0.00228 J	0.126	0.00385 U	0.0279	0.00382 U	0.00703 J	0.00357 U
DIBENZO(A,H)ANTHRACENE	0.00405 U	0.00379 U	0.0042 U	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
FLUORANTHENE	0.367	0.00455 J	0.192	0.00385 U	0.0325	0.00382 U	0.00952	0.00357 U
FLUORENE	0.00567 J	0.00379 U	0.00294 J	0.00385 U	0.00417 U	0.00382 U	0.00414 U	0.00357 U
INDENO(1,2,3-CD)PYRENE	0.157	0.00379 U	0.0793	0.00385 U	0.0225	0.00382 U	0.00621 J	0.00357 U
NAPHTHALENE	0.00243 U	0.00228 U	0.00252 U	0.00231 U	0.0025 U	0.00229 U	0.00248 U	0.00214 U
PHENANTHRENE	0.117	0.00228 J	0.0751	0.00385 U	0.00917	0.00382 U	0.00248 J	0.00357 U
PYRENE	0.265	0.00342 J	0.175	0.00385 U	0.03	0.00382 U	0.00869	0.00357 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB453		X7-SB455		X7-SB457		X7-SB459	
SAMPLE ID	X7-SS453-0001	X7-SS453-0102	X7-SS455-0001	X7-SS455-0102	X7-SS457-0001	X7-SS457-0102	X7-SS459-0001	X7-SS459-0102
SAMPLE DATE	20120906	20120906	20120906	20120906	20120906	20120907	20120907	20120907
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	1	0	1	0	1
BOTTOM DEPTH	1	2	1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00401 U	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
2-METHYLNAPHTHALENE	0.00401 U	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
ACENAPHTHENE	0.00401 UJ	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
ACENAPHTHYLENE	0.00401 UJ	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
ANTHRACENE	0.00401 U	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
BAP EQUIVALENT-HALFND	0.0178691	0.0041605	0.0195188	0.00357 U	0.0381879	0.00359 U	0.00422 U	0.00424 U
BAP EQUIVALENT-POS	0.0158641	2.52E-06	0.0174688	0.00357 U	0.0362629	0.00359 U	0.00422 U	0.00424 U
BENZO(A)ANTHRACENE	0.0112	0.0036 U	0.0123	0.00357 U	0.02	0.00359 U	0.00422 U	0.00424 U
BENZO(A)PYRENE	0.0124	0.0036 U	0.0135	0.00357 U	0.0285	0.00359 U	0.00422 U	0.00424 U
BENZO(B)FLUORANTHENE	0.016	0.0036 U	0.0181	0.00357 U	0.0369	0.00359 U	0.00422 U	0.00424 U
BENZO(G,H,I)PERYLENE	0.00802	0.0036 U	0.0103	0.00357 U	0.0235	0.00359 U	0.00422 U	0.00424 U
BENZO(K)FLUORANTHENE	0.00521 J	0.0036 U	0.00574 J	0.00357 U	0.0131	0.00359 U	0.00422 U	0.00424 U
CHRYSENE	0.01	0.00252 J	0.00944	0.00357 U	0.0219	0.00359 U	0.00422 U	0.00424 U
DIBENZO(A,H)ANTHRACENE	0.00401 U	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
FLUORANTHENE	0.0128	0.0036 U	0.0127	0.00357 U	0.0215	0.00359 U	0.00422 U	0.00424 U
FLUORENE	0.00401 UJ	0.0036 U	0.0041 U	0.00357 U	0.00385 U	0.00359 U	0.00422 U	0.00424 U
INDENO(1,2,3-CD)PYRENE	0.00682 J	0.0036 U	0.00862	0.00357 U	0.0192	0.00359 U	0.00422 U	0.00424 U
NAPHTHALENE	0.00241 UJ	0.00216 U	0.00246 U	0.00214 U	0.00231 U	0.00215 U	0.00253 U	0.00254 U
PHENANTHRENE	0.00361 J	0.0036 U	0.0041 J	0.00357 U	0.00577 J	0.00359 U	0.00422 U	0.00424 U
PYRENE	0.01	0.0036 U	0.0115	0.00357 U	0.0238	0.00359 U	0.00422 U	0.00424 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB460		X7-SB462			
SAMPLE ID	X7-SS460-0001	X7-SS460-0102	X7-SS462-0001	X7-SS462-0102	X7-SB462-0204	X7-SB462-0406
SAMPLE DATE	20120907	20120907	20120907	20120907	20120907	20120907
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SB	SB
TOP DEPTH	0	1	0	1	2	4
BOTTOM DEPTH	1	2	1	2	4	6
METALS (MG/KG)						
ALUMINUM	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE	0.00401 U	0.00376 U	0.00393 U	0.00367 U	0.00427 U	0.00412 U
2-METHYLNAPHTHALENE	0.00401 U	0.00376 U	0.00393 U	0.00367 U	0.00427 U	0.00412 U
ACENAPHTHENE	0.00281 J	0.00376 U	0.00393 U	0.00367 U	0.00427 U	0.00412 U
ACENAPHTHYLENE	0.00401 U	0.00376 U	0.00393 U	0.00367 U	0.00427 U	0.00412 U
ANTHRACENE	0.00361 J	0.00376 U	0.00236 J	0.00367 U	0.00427 U	0.00412 U
BAP EQUIVALENT-HALFND	0.1111857	0.00376 U	0.074226	0.0054517	0.00427 U	0.00412 U
BAP EQUIVALENT-POS	0.1091807	0.00376 U	0.072261	0.003413	0.00427 U	0.00412 U
BENZO(A)ANTHRACENE	0.0689	0.00376 U	0.0417	0.00513 J	0.00427 U	0.00412 U
BENZO(A)PYRENE	0.0834	0.00376 U	0.0566	0.00257 J	0.00427 U	0.00412 U
BENZO(B)FLUORANTHENE	0.136	0.00376 U	0.0806	0.0033 J	0.00427 U	0.00412 U
BENZO(G,H,I)PERYLENE	0.0621	0.00376 U	0.037	0.00367 U	0.00427 U	0.00412 U
BENZO(K)FLUORANTHENE	0.0373	0.00376 U	0.0264	0.00367 U	0.00427 U	0.00412 U
CHRYSENE	0.0677	0.00376 U	0.057	0.00367 U	0.00427 U	0.00412 U
DIBENZO(A,H)ANTHRACENE	0.00401 U	0.00376 U	0.00393 U	0.00367 U	0.00427 U	0.00412 U
FLUORANTHENE	0.0846	0.00376 U	0.0531	0.0022 J	0.00427 U	0.00412 U
FLUORENE	0.00401 U	0.00376 U	0.00393 U	0.00367 U	0.00427 U	0.00412 U
INDENO(1,2,3-CD)PYRENE	0.0485	0.00376 U	0.0311	0.00367 U	0.00427 U	0.00412 U
NAPHTHALENE	0.00281 J	0.00226 U	0.00236 U	0.0022 U	0.00341 J	0.00329 J
PHENANTHRENE	0.0277	0.00376 U	0.0173	0.00367 U	0.00427 U	0.00412 U
PYRENE	0.0798	0.00376 U	0.0523	0.00257 J	0.00427 U	0.00412 U
XRF (MG/KG)						
LEAD	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB463				X7-SB464			
SAMPLE ID	X7-SS463-0001	X7-SS463-0102	X7-SB463-0204	X7-SB463-0406	X7-SS464-0001	X7-SS464-0102	X7-SB464-0204	X7-SB464-0406
SAMPLE DATE	20120907	20120907	20120907	20120907	20120907	20120907	20120907	20120907
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH	0	1	2	4	0	1	2	4
BOTTOM DEPTH	1	2	4	6	1	2	4	6
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.163	0.00376 U	0.00398 U	0.00394 U	0.0071 J	0.00382 U	0.00386 U	0.00399 U
2-METHYLNAPHTHALENE	0.195	0.00376 U	0.00398 U	0.00394 U	0.00793 J	0.00382 U	0.00386 U	0.00399 U
ACENAPHTHENE	1.04	0.00376 U	0.00398 U	0.00394 U	0.109	0.00497 J	0.00386 U	0.00399 U
ACENAPHTHYLENE	0.0406 U	0.00376 U	0.00398 U	0.00394 U	0.00417 U	0.00382 U	0.00386 U	0.00399 U
ANTHRACENE	1.11	0.00376 U	0.00398 U	0.00394 U	0.122	0.00727 J	0.00386 U	0.00399 U
BAP EQUIVALENT-HALFND	21.8317	0.0368593	0.00398 U	0.00394 U	1.877745	0.292786	0.00386 U	0.0127879
BAP EQUIVALENT-POS	21.8114	0.0349793	0.00398 U	0.00394 U	1.87566	0.290876	0.00386 U	0.0107929
BENZO(A)ANTHRACENE	13.1	0.0207	0.00398 U	0.00394 U	1.21	0.158	0.00386 U	0.00998
BENZO(A)PYRENE	17.2	0.0267	0.00398 U	0.00394 U	1.47	0.228	0.00386 U	0.00799
BENZO(B)FLUORANTHENE	23.3	0.0413	0.00398 U	0.00394 U	1.97	0.324	0.00386 U	0.0112
BENZO(G,H,I)PERYLENE	10.1	0.0225	0.00398 U	0.00394 U	0.943	0.164	0.00386 U	0.00759 U
BENZO(K)FLUORANTHENE	6.91	0.0109	0.00398 U	0.00394 U	0.651	0.0972	0.00386 U	0.00399 J
CHRYSENE	18.3	0.0203	0.00398 U	0.00394 U	1.45	0.204	0.00386 U	0.00599 J
DIBENZO(A,H)ANTHRACENE	0.0406 U	0.00376 U	0.00398 U	0.00394 U	0.00417 U	0.00382 U	0.00386 U	0.00399 U
FLUORANTHENE	19.7	0.0225	0.00398 U	0.00394 U	2.21	0.209	0.00386 U	0.00679 J
FLUORENE	0.577	0.00376 U	0.00398 U	0.00394 U	0.0451	0.00268 J	0.00386 U	0.00399 U
INDENO(1,2,3-CD)PYRENE	8.84	0.0195	0.00398 U	0.00394 U	0.797	0.135	0.00386 U	0.00639 J
NAPHTHALENE	0.784	0.00225 U	0.00358 J	0.00237 J	0.00793 J	0.00306 J	0.00231 J	0.00319 J
PHENANTHRENE	5.48	0.00639 J	0.00398 U	0.00394 U	1	0.0516	0.00386 U	0.00399 U
PYRENE	18.5	0.0218	0.00398 U	0.00394 U	1.9	0.2	0.00386 U	0.00599 J
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB465		X7-SB466				X7-SB469	
SAMPLE ID	X7-SS465-0001	X7-SS465-0102	X7-SS466-0001	X7-SS466-0102	X7-SS466-0102-AVG	X7-SS466-0102-D	X7-SS469-0001	X7-SS469-0102
SAMPLE DATE	20120907	20120907	20120907	20120907	20120907	20120907	20121003	20121003
SAMPLE CODE	NORMAL	NORMAL	NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	1	1	1	0	1
BOTTOM DEPTH	1	2	1	2	2	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00394 U	0.00367 U	0.00398 U	0.00361 U	0.00372 U	0.00383 U	0.00326 J	0.00382 U
2-METHYLNAPHTHALENE	0.00394 U	0.00367 U	0.00398 U	0.00361 U	0.00372 U	0.00383 U	0.00367 J	0.00382 U
ACENAPHTHENE	0.00592 J	0.00367 U	0.00239 J	0.00361 U	0.00372 U	0.00383 U	0.0147	0.00382 U
ACENAPHTHYLENE	0.00394 U	0.00367 U	0.00398 U	0.00361 U	0.00372 U	0.00383 U	0.00407 U	0.00382 U
ANTHRACENE	0.00868	0.00367 U	0.00279 J	0.00361 U	0.00268 J	0.00268 J	0.0196	0.00382 U
BAP EQUIVALENT-HALFND	0.209193	0.00367 U	0.1249841	0.00361 U	0.0570881	0.1123711	0.572655	0.00382 U
BAP EQUIVALENT-POS	0.207223	0.00367 U	0.1229941	0.00361 U	0.0561306	0.1104561	0.572655	0.00382 U
BENZO(A)ANTHRACENE	0.119	0.00367 U	0.0586	0.00361 UJ	0.0308025	0.0598 J	0.341	0.00382 U
BENZO(A)PYRENE	0.16	0.00367 U	0.0964	0.00361 UJ	0.0442025	0.0866 J	0.451	0.00382 U
BENZO(B)FLUORANTHENE	0.25	0.00367 U	0.141	0.00361 UJ	0.0619025	0.122 J	0.579	0.00382 U
BENZO(G,H,I)PERYLENE	0.12	0.00367 U	0.0777	0.00361 UJ	0.0334525	0.0651 J	0.218	0.00382 U
BENZO(K)FLUORANTHENE	0.0667	0.00367 U	0.0382	0.00361 UJ	0.0204525	0.0391 J	0.202	0.00382 U
CHRYSENE	0.146	0.00367 U	0.0821	0.00361 UJ	0.0384525	0.0751 J	0.425	0.00382 U
DIBENZO(A,H)ANTHRACENE	0.00394 U	0.00367 U	0.00398 U	0.00361 U	0.00372 U	0.00383 U	0.00611 J	0.00382 U
FLUORANTHENE	0.177 J	0.00367 U	0.0852	0.00361 UJ	0.0365525	0.0713 J	0.429	0.00382 U
FLUORENE	0.00316 J	0.00367 U	0.00398 U	0.00361 U	0.00372 U	0.00383 U	0.00856	0.00382 U
INDENO(1,2,3-CD)PYRENE	0.0951	0.00367 U	0.0617	0.00361 UJ	0.0269525	0.0521 J	0.211	0.00382 U
NAPHTHALENE	0.00276 J	0.0022 U	0.00239 J	0.00217 U	0.002235 U	0.0023 U	0.00244 U	0.00229 U
PHENANTHRENE	0.0643	0.00367 U	0.0251	0.00361 U	0.0087525	0.0157	0.113	0.00382 U
PYRENE	0.165	0.00367 U	0.0821	0.00361 UJ	0.0356025	0.0694 J	0.497	0.00382 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1

PAH AND BaP EQUIVALEHT DELINEATION SOIL SAMPLING RESULTS - WEST TRAP RANGE
UXO 7 RANGES
SA CRANE, INDIANA

LOCATION	X7-SB470		X7-SB471				X7-SB472	
SAMPLE ID	X7-SS470-0001	X7-SS470-0102	X7-SS471-0001	X7-SS471-0001-AVG	X7-SS471-0001-D	X7-SS471-0102	X7-SS472-0001	X7-SS472-0102
SAMPLE DATE	20121003	20121003	20120907	20120907	20120907	20120907	20121003	20121003
SAMPLE CODE	NORMAL	NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	1	0	0	0	1	0	1
BOTTOM DEPTH	1	2	1	1	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	0.00563 J	0.00387 U	0.00398 U	0.00405 U	0.00412 U	0.00359 U	0.0037 U	0.00381 U
2-METHYLNAPHTHALENE	0.00683 J	0.00387 U	0.00398 U	0.00405 U	0.00412 U	0.00359 U	0.0037 U	0.00381 U
ACENAPHTHENE	0.0816	0.00387 U	0.00518 J	0.00362	0.00412 U	0.00359 U	0.0037 U	0.00381 U
ACENAPHTHYLENE	0.00402 U	0.00387 U	0.00398 U	0.00405 U	0.00412 U	0.00359 U	0.0037 U	0.00381 U
ANTHRACENE	0.121	0.00232 J	0.00757 J	0.00523	0.00289 J	0.00359 U	0.0037 U	0.00381 U
BAP EQUIVALENT-HALFND	2.33318	0.0440604	0.231712	0.1640216	0.0963311	0.00359 U	0.0037 U	0.00381 U
BAP EQUIVALENT-POS	2.33318	0.0421254	0.229722	0.1619966	0.0942711	0.00359 U	0.0037 U	0.00381 U
BENZO(A)ANTHRACENE	1.3	0.0255	0.127 J	0.0905	0.054 J	0.00359 U	0.0037 U	0.00381 U
BENZO(A)PYRENE	1.85	0.0332	0.18 J	0.1269	0.0738 J	0.00359 U	0.0037 U	0.00381 U
BENZO(B)FLUORANTHENE	2.33	0.0441	0.256 J	0.1805	0.105 J	0.00359 U	0.0037 U	0.00381 U
BENZO(G,H,I)PERYLENE	1.03	0.022	0.13 J	0.0912	0.0524 J	0.00359 U	0.0037 U	0.00381 U
BENZO(K)FLUORANTHENE	0.697	0.0158	0.0761 J	0.05535	0.0346 J	0.00359 U	0.0037 U	0.00381 U
CHRYSENE	1.51	0.0274	0.161 J	0.11305	0.0651 J	0.00359 U	0.0037 U	0.00381 U
DIBENZO(A,H)ANTHRACENE	0.0237	0.00387 U	0.00398 U	0.00405 U	0.00412 U	0.00359 U	0.0037 U	0.00381 U
FLUORANTHENE	2.21	0.0383	0.169 J	0.1179	0.0668 J	0.00359 U	0.0037 U	0.00381 U
FLUORENE	0.0386	0.00387 U	0.00239 J	0.00239 J	0.00412 U	0.00359 U	0.0037 U	0.00381 U
INDENO(1,2,3-CD)PYRENE	0.88	0.0178	0.105 J	0.0733	0.0416 J	0.00359 U	0.0037 U	0.00381 U
NAPHTHALENE	0.00241 U	0.00232 U	0.00319 J	0.0022125	0.00247 U	0.00215 U	0.00222 U	0.00228 U
PHENANTHRENE	0.718	0.0155	0.0438 J	0.03095	0.0181 J	0.00359 U	0.0037 U	0.00381 U
PYRENE	2.57	0.0336	0.156 J	0.10995	0.0639 J	0.00359 U	0.0037 U	0.00381 U
XRF (MG/KG)								
LEAD	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB063	X7-SB064	X7-SB065	X7-SB066	X7-SB067	X7-SB068	X7-SB069	X7-SB070
SAMPLE ID			X7-SS063-0002	X7-SS064-0002	X7-SS065-0002	X7-SS066-0002	X7-SS067-0002	X7-SS068-0002	X7-SS069-0002	X7-SS070-0002
SAMPLE DATE			20071004	20071004	20071004	20071004	20071004	20071004	20071005	20071009
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	0	0	0	0	0	0	0
BOTTOM DEPTH			2	2	2	2	2	2	2	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	8700	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	0.21 J	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	3.86	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	163	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	0.407	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	0.662	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	763	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	10.2	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	6.79	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	6.34	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	12200	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	10.3	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	29	24	NA	NA	NA	18
MAGNESIUM	NC	NC	NA	NA	NA	830	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	347	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	8.75	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	476	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	0.546	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	0.0627	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	46.8	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	0.138	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	19.9	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	30.9	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	NC	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-POS	0.1	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	0 U	0 U	33	28.5	0 U	0 U	0 U	22

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB071			X7-SB072	X7-SB073	X7-SB074
SAMPLE ID			X7-SS071-0002	X7-SS071-0002-AVG	X7-SS071-0002-D	X7-SS072-0002	X7-SS073-0002	X7-SS074-0002
SAMPLE DATE			20071005	20071005	20071005	20071004	20071005	20071005
SAMPLE CODE			ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	0	0	0	0	0
BOTTOM DEPTH			2	2	2	2	2	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	25	36	33
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NC	NC	0.0016 U	0.0016 U	NA	NA	NA	NA
ACENAPHTHENE	NC	NC	0.0012 U	0.0012 U	NA	NA	NA	NA
ANTHRACENE	NC	NC	0.00085 U	0.00085 U	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	NC	0.021323	0.021323	NA	NA	NA	NA
BAP EQUIVALENT-POS	0.1	NC	0.020773	0.020773	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NC	NC	0.012	0.012	NA	NA	NA	NA
BENZO(A)PYRENE	NC	NC	0.017	0.017	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	0.02	0.02	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NC	NC	0.0071	0.0071	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	0.008	0.008	NA	NA	NA	NA
CHRYSENE	NC	NC	0.013	0.013	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	0.0011 U	0.0011 U	NA	NA	NA	NA
FLUORANTHENE	NC	NC	0.015	0.015	NA	NA	NA	NA
FLUORENE	NC	NC	0.00065 U	0.00065 U	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	0.0048 J	0.0048 J	NA	NA	NA	NA
NAPHTHALENE	NC	NC	0.0012 U	0.0012 U	NA	NA	NA	NA
PHENANTHRENE	NC	NC	0.0011 U	0.0011 U	NA	NA	NA	NA
PYRENE	NC	NC	0.017	0.017	NA	NA	NA	NA
XRF (MG/KG)								
LEAD	400	192	0 U	0 U	0 U	29	41	38

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB075			X7-SB076	X7-SB077	X7-SB078
SAMPLE ID			X7-SS075-0002	X7-SB075-0204	X7-SB075-0406	X7-SS076-0002	X7-SS077-0002	X7-SS078-0002
SAMPLE DATE			20071005	20120906	20120906	20071005	20071005	20071005
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SS
TOP DEPTH			0	2	4	0	0	0
BOTTOM DEPTH			2	4	6	2	2	2
METALS (MG/KG)								
ALUMINUM	NC	NC	14800	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	0.93 J	NA	NA	NA	NA	NA
ARSENIC	NC	NC	8.54	NA	NA	NA	NA	NA
BARIUM	NC	NC	627	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	0.634	NA	NA	NA	NA	NA
CADMIUM	NC	NC	1.12	NA	NA	NA	NA	NA
CALCIUM	NC	NC	1930	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	16.5	NA	NA	NA	NA	NA
COBALT	NC	NC	10.3	NA	NA	NA	NA	NA
COPPER	NC	NC	15	NA	NA	NA	NA	NA
IRON	NC	NC	23000	NA	NA	NA	NA	NA
LEAD	400	192	33.1	NA	NA	NA	NA	NA
LEAD-CALC	400	192	25	NA	NA	NA	NA	24
MAGNESIUM	NC	NC	1410	NA	NA	NA	NA	NA
MANGANESE	NC	NC	770	NA	NA	NA	NA	NA
NICKEL	NC	NC	14.8	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	853	NA	NA	NA	NA	NA
SELENIUM	NC	NC	0.575	NA	NA	NA	NA	NA
SILVER	NC	NC	0.0844	NA	NA	NA	NA	NA
SODIUM	NC	NC	66.7	NA	NA	NA	NA	NA
THALLIUM	NC	NC	0.209	NA	NA	NA	NA	NA
VANADIUM	NC	NC	32.8	NA	NA	NA	NA	NA
ZINC	NC	NC	63	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	NA	0.00373 U	0.00396 U	NA	NA	NA
2-METHYLNAPHTHALENE	NC	NC	0.0018 U	0.00373 U	0.00396 U	NA	NA	NA
ACENAPHTHENE	NC	NC	0.0049 J	0.00373 U	0.00396 U	NA	NA	NA
ANTHRACENE	NC	NC	0.0072	0.00373 U	0.00396 U	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	NC	**0.23208 [H]**	0.00373 U	0.0046158	NA	NA	NA
BAP EQUIVALENT-POS	0.1	NC	**0.23208 [H]**	0.00373 U	0.002218	NA	NA	NA
BENZO(A)ANTHRACENE	NC	NC	0.14	0.00373 U	0.00396 U	NA	NA	NA
BENZO(A)PYRENE	NC	NC	0.17	0.00373 U	0.00198 J	NA	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	0.23	0.00373 U	0.00238 J	NA	NA	NA
BENZO(G,H,I)PERYLENE	NC	NC	0.048	0.00373 U	0.00396 U	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	0.092	0.00373 U	0.00396 U	NA	NA	NA
CHRYSENE	NC	NC	0.16	0.00373 U	0.00396 U	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	0.018	0.00373 U	0.00396 U	NA	NA	NA
FLUORANTHENE	NC	NC	0.18	0.00373 U	0.00396 U	NA	NA	NA
FLUORENE	NC	NC	0.0046 J	0.00373 U	0.00396 U	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	0.06	0.00373 U	0.00396 U	NA	NA	NA
NAPHTHALENE	NC	NC	0.0013 U	0.00224 U	0.00238 U	NA	NA	NA
PHENANTHRENE	NC	NC	0.03	0.00373 U	0.00396 U	NA	NA	NA
PYRENE	NC	NC	0.2	0.00373 U	0.00396 U	NA	NA	NA
XRF (MG/KG)								
LEAD	400	192	29.67	NA	NA	0 U	0 U	28

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB079			X7-SB080	X7-SB081	X7-SB082		
SAMPLE ID			X7-SS079-0002	X7-SS079-0002-AVG	X7-SS079-0002-D	X7-SS080-0002	X7-SS081-0002	X7-SS082-0002	X7-SS082-0002-AVG	X7-SS082-0002-D
SAMPLE DATE			20071005	20071005	20071005	20071005	20071005	20071005	20071005	20071005
SAMPLE CODE			ORIG	AVG	DUP	NORMAL	NORMAL	ORIG	AVG	DUP
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	0	0	0	0	0	0	0
BOTTOM DEPTH			2	2	2	2	2	2	2	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	36	29	28	28	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NC	NC	0.0016 U	0.0016 U	0.0016 U	NA	0.0016 U	NA	NA	NA
ACENAPHTHENE	NC	NC	0.0011 U	0.00115 U	0.0012 U	NA	0.0011 U	NA	NA	NA
ANTHRACENE	NC	NC	0.00083 U	0.00084 U	0.00085 U	NA	0.00084 U	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	NC	0.00096 U	0.00097 U	0.00098 U	NA	0.00097 U	NA	NA	NA
BAP EQUIVALENT-POS	0.1	NC	0.00096 U	0.00097 U	0.00098 U	NA	0.00097 U	NA	NA	NA
BENZO(A)ANTHRACENE	NC	NC	0.00087 U	0.00088 U	0.00089 U	NA	0.00088 U	NA	NA	NA
BENZO(A)PYRENE	NC	NC	0.00096 U	0.00097 U	0.00098 U	NA	0.00097 U	NA	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	0.00087 U	0.00088 U	0.00089 U	NA	0.00088 U	NA	NA	NA
BENZO(G,H,I)PERYLENE	NC	NC	0.00096 U	0.00097 U	0.00098 U	NA	0.00097 U	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	0.00045 U	0.000455 U	0.00046 U	NA	0.00046 U	NA	NA	NA
CHRYSENE	NC	NC	0.00083 U	0.00084 U	0.00085 U	NA	0.00084 U	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	0.001 U	0.00105 U	0.0011 U	NA	0.0011 U	NA	NA	NA
FLUORANTHENE	NC	NC	0.00083 U	0.00084 U	0.00085 U	NA	0.00084 U	NA	NA	NA
FLUORENE	NC	NC	0.00064 U	0.000645 U	0.00065 U	NA	0.00064 U	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	0.0012 U	0.00125 U	0.0013 U	NA	0.0012 U	NA	NA	NA
NAPHTHALENE	NC	NC	0.0011 U	0.00115 U	0.0012 U	NA	0.0011 U	NA	NA	NA
PHENANTHRENE	NC	NC	0.001 U	0.00105 U	0.0011 U	NA	0.0011 U	NA	NA	NA
PYRENE	NC	NC	0.001 U	0.00105 U	0.0011 U	NA	0.0011 U	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	0 U	0 U	NA	41	34	32	31.5	31

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB083	X7-SB084	X7-SB085	X7-SB086	X7-SB087	X7-SB088	X7-SB089	X7-SB090
SAMPLE ID			X7-SS083-0002	X7-SS084-0002	X7-SS085-0002	X7-SS086-0002	X7-SS087-0002	X7-SS088-0002	X7-SS089-0002	X7-SS090-0002
SAMPLE DATE			20071005	20071005	20071005	20071005	20071005	20071005	20071005	20071005
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	0	0	0	0	0	0	0
BOTTOM DEPTH			2	2	2	2	2	2	2	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	36	NA	NA	25	25	35
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	0.0017 U	NA	NA	NA	NA
ACENAPHTHENE	NC	NC	NA	NA	NA	0.0012 U	NA	NA	NA	NA
ANTHRACENE	NC	NC	NA	NA	NA	0.0009 U	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	NC	NA	NA	NA	0.001 U	NA	NA	NA	NA
BAP EQUIVALENT-POS	0.1	NC	NA	NA	NA	0.001 U	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NC	NC	NA	NA	NA	0.00095 UJ	NA	NA	NA	NA
BENZO(A)PYRENE	NC	NC	NA	NA	NA	0.001 UJ	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	NA	NA	NA	0.00095 UJ	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NC	NC	NA	NA	NA	0.001 UJ	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	NA	NA	NA	0.00049 UJ	NA	NA	NA	NA
CHRYSENE	NC	NC	NA	NA	NA	0.0009 UJ	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	NA	NA	NA	0.0011 UJ	NA	NA	NA	NA
FLUORANTHENE	NC	NC	NA	NA	NA	0.0009 U	NA	NA	NA	NA
FLUORENE	NC	NC	NA	NA	NA	0.00069 U	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	NA	NA	NA	0.0013 UJ	NA	NA	NA	NA
NAPHTHALENE	NC	NC	NA	NA	NA	0.0012 U	NA	NA	NA	NA
PHENANTHRENE	NC	NC	NA	NA	NA	0.0011 U	NA	NA	NA	NA
PYRENE	NC	NC	NA	NA	NA	0.0011 UJ	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	0 U	0 U	41	0 U	0 U	29	29	40

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB091	X7-SB092	X7-SB093	X7-SB094	X7-SB185	X7-SB186	X7-SB187	X7-SB188
SAMPLE ID			X7-SS091-0002	X7-SS092-0002	X7-SS093-0002	X7-SS094-0002	X7-SS185-0002	X7-SS186-0002	X7-SS187-0002	X7-SS188-0002
SAMPLE DATE			20071005	20071005	20071005	20071005	20071009	20071009	20071009	20071009
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	0	0	0	0	0	0	0
BOTTOM DEPTH			2	2	2	2	2	2	2	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	22	NA	NA	21	28	18	20
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	NC	NA	NA	NA	NA	NA	NA	NA	NA
BAP EQUIVALENT-POS	0.1	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	0 U	26	0 U	0 U	24.33	32	21	23.67

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB242				X7-SB243			
SAMPLE ID			X7-SS242-0001	X7-SS242-0102	X7-SB242-0204	X7-SB242-0406	X7-SS243-0001	X7-SS243-0102	X7-SB243-0204	X7-SB243-0406
SAMPLE DATE			20111109	20111109	20120906	20120906	20111109	20111109	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	4	0	1	2	4
BOTTOM DEPTH			1	2	4	6	1	2	4	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00495 U	0.0038 U	0.00407 U	0.00407 U	0.00414 U	0.00401 U	0.0223 J	0.00396 U
2-METHYLNAPHTHALENE	NC	NC	0.00495 U	0.0038 U	0.00407 U	0.00407 U	0.00414 U	0.00401 U	0.0315 J	0.00396 U
ACENAPHTHENE	NC	NC	0.00389 J	0.00476 J	0.00407 U	0.00407 U	0.00414 U	0.00556 J	0.217	0.00396 U
ANTHRACENE	NC	NC	0.00643 J	0.00712 J	0.00407 U	0.00407 U	0.00414 U	0.0104	0.347	0.00396 U
BAP EQUIVALENT-HALFND	0.1	NC	**0.25702 [H]**	**0.21626 [H]**	0.0558374	0.00407 U	0.021047	**0.34381 [H]**	**18.4455 [H]**	0.084046
BAP EQUIVALENT-POS	0.1	NC	**0.25702 [H]**	**0.21626 [H]**	0.0538024	0.00407 U	0.0208379	**0.34381 [H]**	**18.4362 [H]**	0.082066
BENZO(A)ANTHRACENE	NC	NC	0.145	0.123	0.0326	0.00407 U	0.00414 U	0.201	10.3	0.0471
BENZO(A)PYRENE	NC	NC	0.175	0.146	0.0427	0.00407 U	0.0135	0.233	14.7	0.0649
BENZO(B)FLUORANTHENE	NC	NC	0.219	0.187	0.0505	0.00407 U	0.0201	0.273	18.4	0.0843
BENZO(G,H,I)PERYLENE	NC	NC	0.145	0.13	0.0305	0.00407 U	0.0136	0.205	9.11	0.0444
BENZO(K)FLUORANTHENE	NC	NC	0.0934	0.0803	0.0199	0.00407 U	0.00779 J	0.126	6.16	0.0289
CHRYSENE	NC	NC	0.182	0.154	0.0334	0.00407 U	0.00414 U	0.253	12.6	0.057
DIBENZO(A,H)ANTHRACENE	NC	NC	0.0296	0.0251	0.00407 U	0.00407 U	0.00381 J	0.0415	0.0186 U	0.00396 U
FLUORANTHENE	NC	NC	0.172	0.152	0.035	0.00407 U	0.0142	0.191	11.6	0.0495
FLUORENE	NC	NC	0.00272 J	0.00263 J	0.00407 U	0.00407 U	0.00414 U	0.00389 J	0.0928	0.00396 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.149	0.132	0.0256	0.00407 U	0.0144	0.204	7.92	0.0368
NAPHTHALENE	NC	NC	0.00495 U	0.0029 J	0.00244 U	0.00244 U	0.00414 U	0.00494 J	0.115	0.00238 U
PHENANTHRENE	NC	NC	0.0291	0.0321	0.00489 J	0.00407 U	0.00424 J	0.0405	1.54	0.00634 J
PYRENE	NC	NC	0.172	0.153	0.0326	0.00407 U	0.0143	0.203	10.7	0.0471
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB244		X7-SB245		X7-SB246	
SAMPLE ID			X7-SS244-0001	X7-SS244-0102	X7-SS245-0001	X7-SS245-0102	X7-SS246-0001	X7-SS246-0102
SAMPLE DATE			20111109	20111109	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	0.00401 U	0.00395 U	0.00414 U	0.0385 U	0.00397 U	0.00386 U
2-METHYLNAPHTHALENE	NC	NC	0.00401 U	0.00395 U	0.00414 U	0.0385 U	0.00397 U	0.00386 U
ACENAPHTHENE	NC	NC	0.00401 U	0.00395 U	0.00414 U	0.0385 U	0.00397 U	0.00386 U
ANTHRACENE	NC	NC	0.00401 U	0.00543 J	0.0067 J	0.0385 U	0.00397 U	0.00242 J
BAP EQUIVALENT-HALFND	0.1	NC	0.0585138	0.0312892	0.0269259	0.0492218	0.0403678	**0.10501 [H]**
BAP EQUIVALENT-POS	0.1	NC	0.0585138	0.0312892	0.0267168	0.02591	0.0403678	**0.10501 [H]**
BENZO(A)ANTHRACENE	NC	NC	0.0341	0.0184	0.00414 U	0.0385 U	0.0176	0.0594
BENZO(A)PYRENE	NC	NC	0.0391	0.0199	0.018	0.0227 J	0.0268	0.0708
BENZO(B)FLUORANTHENE	NC	NC	0.0522	0.0252	0.0263	0.0321 J	0.0347	0.0894
BENZO(G,H,I)PERYLENE	NC	NC	0.0311	0.0175	0.0183	0.0385 U	0.0255	0.0619
BENZO(K)FLUORANTHENE	NC	NC	0.018	0.00985	0.00968	0.0385 U	0.0147	0.035
CHRYSENE	NC	NC	0.0438	0.0207	0.00414 U	0.0385 U	0.0208	0.0683
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00721 J	0.00544 J	0.00412 J	0.0385 U	0.00556 J	0.0128
FLUORANTHENE	NC	NC	0.0451	0.0223	0.0206	0.0275 J	0.0236	0.0688
FLUORENE	NC	NC	0.00401 U	0.00395 U	0.00414 U	0.0385 U	0.00397 U	0.00386 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.0335	0.0147	0.0187	0.0385 U	0.0261	0.0611
NAPHTHALENE	NC	NC	0.00401 U	0.00395 U	0.00414 U	0.0385 U	0.00397 U	0.00386 U
PHENANTHRENE	NC	NC	0.0133	0.00533 J	0.00684 J	0.0385 U	0.00397 U	0.0118
PYRENE	NC	NC	0.043	0.0217	0.0191	0.0271 J	0.0229	0.0685
XRF (MG/KG)								
LEAD	400	192	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB247				X7-SB248			
SAMPLE ID			X7-SS247-0001	X7-SS247-0102	X7-SB247-0204	X7-SB247-0406	X7-SS248-0001	X7-SS248-0001-AVG	X7-SS248-0001-D	X7-SS248-0102
SAMPLE DATE			20111109	20111109	20120906	20120906	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	ORIG	AVG	DUP	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SS	SS
TOP DEPTH			0	1	2	4	0	0	0	1
BOTTOM DEPTH			1	2	4	6	1	1	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00409 U	0.0385 U	0.00361 U	0.00398 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
2-METHYLNAPHTHALENE	NC	NC	0.00409 U	0.0385 U	0.00361 U	0.00398 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
ACENAPHTHENE	NC	NC	0.00208 J	0.0932	0.00361 U	0.00398 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
ANTHRACENE	NC	NC	0.0049 J	0.198	0.00361 U	0.00398 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
BAP EQUIVALENT-HALFND	0.1	NC	**0.15317 [H]**	**5.69607 [H]**	0.0058744	0.00398 U	0.0085218	0.0074781	0.0064345	0.0414 U
BAP EQUIVALENT-POS	0.1	NC	**0.15317 [H]**	**5.69607 [H]**	0.005674	0.00398 U	0.0064818	0.0053599	0.004238	0.0414 U
BENZO(A)ANTHRACENE	NC	NC	0.087	3.07	0.00361 U	0.00398 U	0.0037 J	0.0037 J	0.00399 U	0.0414 U
BENZO(A)PYRENE	NC	NC	0.103	3.86	0.00289 J	0.00398 U	0.00497 J	0.00422	0.00347 J	0.0414 U
BENZO(B)FLUORANTHENE	NC	NC	0.136	5.36	0.00289 J	0.00398 U	0.00673 J	0.005545	0.00436 J	0.0414 U
BENZO(G,H,I)PERYLENE	NC	NC	0.0851	3.5	0.00361 J	0.00398 U	0.00542 J	0.00455	0.00368 J	0.0414 U
BENZO(K)FLUORANTHENE	NC	NC	0.0503	1.79	0.00361 U	0.00398 U	0.00245 J	0.002875	0.0033 J	0.0414 U
CHRYSENE	NC	NC	0.102	4.17	0.00361 U	0.00398 U	0.00527 J	0.0036325	0.00399 U	0.0414 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.0182	0.643	0.00217 J	0.00398 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
FLUORANTHENE	NC	NC	0.109	4.22	0.0018 J	0.00398 U	0.00687 J	0.00594	0.00501 J	0.0414 U
FLUORENE	NC	NC	0.00409 U	0.0385 U	0.00361 U	0.00398 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.0906	3.28	0.00325 J	0.00398 U	0.00439 J	0.00369	0.00299 J	0.0414 U
NAPHTHALENE	NC	NC	0.00409 U	0.0589 J	0.00217 U	0.00239 U	0.00408 U	0.004035 U	0.00399 U	0.0414 U
PHENANTHRENE	NC	NC	0.0224	0.933	0.00361 U	0.00398 U	0.00408 U	0.00339 J	0.00339 J	0.0414 U
PYRENE	NC	NC	0.108	4.18	0.00361 U	0.00398 U	0.00653 J	0.005545	0.00456 J	0.0414 U
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB249		X7-SB250				X7-SB251	
SAMPLE ID			X7-SS249-0001	X7-SS249-0102	X7-SS250-0001	X7-SS250-0001-AVG	X7-SS250-0001-D	X7-SS250-0102	X7-SS251-0001	X7-SS251-0102
SAMPLE DATE			20111109	20111109	20111109	20111109	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	0	0	1	0	1
BOTTOM DEPTH			1	2	1	1	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.004005 U	0.00409 U	0.00399 U	0.00417 U	0.00399 U
2-METHYLNAPHTHALENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.004005 U	0.00409 U	0.00399 U	0.00417 U	0.00399 U
ACENAPHTHENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.004005 U	0.00409 U	0.00235 J	0.00417 U	0.00399 U
ANTHRACENE	NC	NC	0.0022 J	0.00393 U	0.00392 U	0.004005 U	0.00409 U	0.00481 J	0.00417 U	0.00399 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0130093	0.0266335	0.00892	0.0111473	0.0133746	**0.13195 [H]**	0.0188676	0.0196466
BAP EQUIVALENT-POS	0.1	NC	0.0106972	0.026435	0.006762	0.0090458	0.0113296	**0.13195 [H]**	0.0188676	0.0196466
BENZO(A)ANTHRACENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.00434	0.00672 J	0.0724	0.00912	0.00858
BENZO(A)PYRENE	NC	NC	0.00882	0.0189	0.00531 J	0.007	0.00869	0.0904	0.0117	0.0115
BENZO(B)FLUORANTHENE	NC	NC	0.0101	0.027	0.00816	0.01003	0.0119	0.113	0.0147	0.0185
BENZO(G,H,I)PERYLENE	NC	NC	0.0087	0.0164	0.00611 J	0.006655	0.0072 J	0.0753	0.0108	0.0118
BENZO(K)FLUORANTHENE	NC	NC	0.00522 J	0.0125	0.0043 J	0.00453	0.00476 J	0.0456	0.00735 J	0.0057 J
CHRYSENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.005485	0.00901	0.0891	0.0121	0.0116
DIBENZO(A,H)ANTHRACENE	NC	NC	0.0042 U	0.003 J	0.00392 U	0.004005 U	0.00409 U	0.0146	0.00364 J	0.004 J
FLUORANTHENE	NC	NC	0.00932	0.0232	0.0104	0.0102	0.01	0.0887	0.0124	0.0126
FLUORENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.004005 U	0.00409 U	0.00399 U	0.00417 U	0.00399 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00815 J	0.0171	0.00593 J	0.00657	0.00721 J	0.0786	0.0106	0.0137
NAPHTHALENE	NC	NC	0.0042 U	0.00393 U	0.00392 U	0.004005 U	0.00409 U	0.00399 U	0.00417 U	0.00399 U
PHENANTHRENE	NC	NC	0.00492 J	0.00671 J	0.00864	0.00653	0.00442 J	0.0219	0.00415 J	0.00595 J
PYRENE	NC	NC	0.00924	0.0219	0.00842	0.00896	0.0095	0.0881	0.0115	0.012
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB252		X7-SB253		X7-SB254			
SAMPLE ID			X7-SS252-0001	X7-SS252-0102	X7-SS253-0001	X7-SS253-0102	X7-SS254-0001	X7-SS254-0102	X7-SB254-0204	X7-SB254-0406
SAMPLE DATE			20111109	20111109	20111109	20111109	20111109	20111109	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	1	0	1	0	1	2	4
BOTTOM DEPTH			1	2	1	2	1	2	4	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.00406 U	0.00403 U	0.00403 U	0.00413 U	0.00393 U	0.00369 U	0.00399 U
2-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.00406 U	0.00403 U	0.00403 U	0.00413 U	0.00393 U	0.00369 U	0.00399 U
ACENAPHTHENE	NC	NC	0.00406 U	0.00406 U	0.00403 U	0.00403 U	0.00681 J	0.00378 J	0.00369 U	0.00399 U
ANTHRACENE	NC	NC	0.00406 U	0.00406 U	0.00212 J	0.00255 J	0.0114	0.00554 J	0.00332 J	0.00399 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0117367	0.0361849	0.0093517	0.0629458	**0.6998 [H]**	**0.26536 [H]**	0.0753107	0.00399 U
BAP EQUIVALENT-POS	0.1	NC	0.0095017	0.0341549	0.00671	0.0629458	**0.6998 [H]**	**0.26536 [H]**	0.0734657	0.00399 U
BENZO(A)ANTHRACENE	NC	NC	0.00406 U	0.0211	0.00403 U	0.0291	0.409	0.152	0.0417	0.00399 U
BENZO(A)PYRENE	NC	NC	0.00767 J	0.0258	0.00671 J	0.0426	0.488	0.182	0.058	0.00399 U
BENZO(B)FLUORANTHENE	NC	NC	0.0102	0.0362	0.00403 U	0.0525	0.639	0.245	0.0731	0.00399 U
BENZO(G,H,I)PERYLENE	NC	NC	0.0075 J	0.026	0.00507 J	0.0343	0.331	0.136	0.0443	0.00399 U
BENZO(K)FLUORANTHENE	NC	NC	0.00487 J	0.0161	0.00403 U	0.02	0.24	0.0876	0.0244	0.00399 U
CHRYSENE	NC	NC	0.00406 U	0.0239	0.00403 U	0.0358	0.499	0.182	0.0517	0.00399 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00406 U	0.00406 U	0.00403 U	0.00822	0.0691	0.0287	0.00369 U	0.00399 U
FLUORANTHENE	NC	NC	0.00776 J	0.0272	0.00836	0.0329	0.428	0.171	0.0476	0.00399 U
FLUORENE	NC	NC	0.00406 U	0.00406 U	0.00403 U	0.00403 U	0.0036 J	0.00393 U	0.00369 U	0.00399 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00763 J	0.0244	0.00403 U	0.0373	0.35	0.139	0.0369	0.00399 U
NAPHTHALENE	NC	NC	0.00406 U	0.00406 U	0.00403 U	0.00403 U	0.00413 U	0.00393 U	0.00222 U	0.0024 U
PHENANTHRENE	NC	NC	0.00376 J	0.00523 J	0.0048 J	0.0066 J	0.0598	0.0257	0.0159	0.00399 U
PYRENE	NC	NC	0.0076 J	0.0281	0.00725 J	0.0335	0.455	0.178	0.0432	0.00399 U
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB255					
SAMPLE ID			**X7-SS255-0001**	**X7-SS255-0102**	**X7-SB255-0204**	**X7-SB255-0204-AVG**	**X7-SB255-0204-D**	**X7-SB255-0406**
SAMPLE DATE			**20111109**	**20111109**	**20120906**	**20120906**	**20120906**	**20120906**
SAMPLE CODE			**NORMAL**	**NORMAL**	**ORIG**	**AVG**	**DUP**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SS**	**SS**	**SB**	**SB**	**SB**	**SB**
TOP DEPTH			**0**	**1**	**2**	**2**	**2**	**4**
BOTTOM DEPTH			**1**	**2**	**4**	**4**	**4**	**6**
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	0.00489 J	0.0382 U	0.00224 J	0.00224 J	0.00359 U	0.00429 U
2-METHYLNAPHTHALENE	NC	NC	0.00764 J	0.0382 U	0.00374 J	0.0027675	0.00359 U	0.00429 U
ACENAPHTHENE	NC	NC	0.0283	0.119	0.0202 J	0.011895	0.00359 J	0.00429 U
ANTHRACENE	NC	NC	0.0381	0.213	0.0265 J	0.01594	0.00538 J	0.00429 U
BAP EQUIVALENT-HALFND	0.1	NC	**1.7376 [H]**	**9.4851 [H]**	**1.4774 [H]**	**0.90755 [H]**	**0.3377 [H]**	0.0055106
BAP EQUIVALENT-POS	0.1	NC	**1.7376 [H]**	**9.4851 [H]**	**1.47553 [H]**	**0.90572 [H]**	**0.33591 [H]**	0.002913
BENZO(A)ANTHRACENE	NC	NC	1.12	5.88	0.729 J	0.4495	0.17 J	0.00429 U
BENZO(A)PYRENE	NC	NC	1.22	6.55	1.18 J	0.7235	0.267 J	0.00257 J
BENZO(B)FLUORANTHENE	NC	NC	1.58	8.08	1.45 J	0.9	0.35 J	0.00343 J
BENZO(G,H,I)PERYLENE	NC	NC	0.713	4.32	0.887 J	0.534	0.181 J	0.00257 J
BENZO(K)FLUORANTHENE	NC	NC	0.689	3.2	0.467 J	0.2985	0.13 J	0.00429 U
CHRYSENE	NC	NC	1.21	7.1	0.964 J	0.585	0.206 J	0.00429 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.16	1.03	0.00374 U	0.003665 U	0.00359 U	0.00429 U
FLUORANTHENE	NC	NC	1.2	7.26	0.801 J	0.492	0.183 J	0.00429 U
FLUORENE	NC	NC	0.0138	0.0382 U	0.0142	0.008535	0.00287 J	0.00429 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.795	4.7	0.72 J	0.437	0.154 J	0.00429 U
NAPHTHALENE	NC	NC	0.0331	0.0582 J	0.00897	0.0050225	0.00215 U	0.00257 U
PHENANTHRENE	NC	NC	0.179	1.12	0.129 J	0.07815	0.0273 J	0.00429 U
PYRENE	NC	NC	1.23	7.36	0.721 J	0.4565	0.192 J	0.00429 U
XRF (MG/KG)								
LEAD	400	192	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB256				X7-SB257			
SAMPLE ID			**X7-SS256-0001**	**X7-SS256-0102**	**X7-SB256-0204**	**X7-SB256-0406**	**X7-SS257-0001**	**X7-SS257-0001-AVG**	**X7-SS257-0001-D**	**X7-SS257-0102**
SAMPLE DATE			**20111109**	**20111109**	**20120906**	**20120906**	**20111109**	**20111109**	**20111109**	**20111109**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**ORIG**	**AVG**	**DUP**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SS**	**SS**
TOP DEPTH			**0**	**1**	**2**	**4**	**0**	**0**	**0**	**1**
BOTTOM DEPTH			**1**	**2**	**4**	**6**	**1**	**1**	**1**	**2**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00417 U	0.00411 U	0.00364 U	0.00387 U	0.00417 U	0.00408 U	0.00399 U	0.00421 U
2-METHYLNAPHTHALENE	NC	NC	0.00417 U	0.00411 U	0.00364 U	0.00387 U	0.00417 U	0.00408 U	0.00399 U	0.00421 U
ACENAPHTHENE	NC	NC	0.00417 U	0.00304 J	0.00255 J	0.00387 U	0.00417 U	0.00408 U	0.00399 U	0.00437 J
ANTHRACENE	NC	NC	0.00417 U	0.00511 J	0.00473 J	0.00387 U	0.00417 U	0.00301 J	0.00301 J	0.00691 J
BAP EQUIVALENT-HALFND	0.1	NC	0.0278143	**0.16645 [H]**	**0.2771 [H]**	0.00387 U	0.0358926	0.0447615	0.0536303	**0.3454 [H]**
BAP EQUIVALENT-POS	0.1	NC	0.0278143	**0.16645 [H]**	**0.27528 [H]**	0.00387 U	0.0358926	0.0447615	0.0536303	**0.3454 [H]**
BENZO(A)ANTHRACENE	NC	NC	0.0162	0.104	0.144	0.00387 U	0.0185	0.02105	0.0236	0.203
BENZO(A)PYRENE	NC	NC	0.0178	0.112	0.218	0.00387 U	0.0243	0.03035	0.0364	0.238 J
BENZO(B)FLUORANTHENE	NC	NC	0.0246	0.149	0.281	0.00387 U	0.0328	0.03835	0.0439	0.312 J
BENZO(G,H,I)PERYLENE	NC	NC	0.0162	0.0812	0.164	0.00387 U	0.0214	0.0272	0.033	0.175 J
BENZO(K)FLUORANTHENE	NC	NC	0.0084	0.0545	0.08	0.00387 U	0.0119	0.0135	0.0151	0.115 J
CHRYSENE	NC	NC	0.0203	0.129	0.18	0.00387 U	0.0236	0.02645	0.0293	0.249 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00438 J	0.0204	0.00364 U	0.00387 U	0.00437 J	0.00563	0.00689 J	0.0363
FLUORANTHENE	NC	NC	0.0182	0.112	0.168	0.00387 U	0.0229	0.0285	0.0341	0.213 J
FLUORENE	NC	NC	0.00417 U	0.00411 U	0.00364 U	0.00387 U	0.00417 U	0.00408 U	0.00399 U	0.00266 J
INDENO(1,2,3-CD)PYRENE	NC	NC	0.0145	0.0808	0.138	0.00387 U	0.0195	0.0268	0.0341	0.182 J
NAPHTHALENE	NC	NC	0.00417 U	0.00411 U	0.00218 U	0.00232 U	0.00417 U	0.00408 U	0.00399 U	0.00421 U
PHENANTHRENE	NC	NC	0.00562 J	0.0224	0.0276	0.00387 U	0.00542 J	0.007215	0.00901	0.0315
PYRENE	NC	NC	0.018	0.112	0.157	0.00387 U	0.0237	0.02805	0.0324	0.225 J
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB258		X7-SB259		X7-SB260	
SAMPLE ID			X7-SS258-0001	X7-SS258-0102	X7-SS259-0001	X7-SS259-0102	X7-SS260-0001	X7-SS260-0102
SAMPLE DATE			20111109	20111109	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.00399 U
2-METHYLNAPHTHALENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.00399 U
ACENAPHTHENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.00271 J
ANTHRACENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.00473 J
BAP EQUIVALENT-HALFND	0.1	NC	0.0102995	0.0042 U	0.00442 U	0.00422 U	0.012249	**0.14745 [H]**
BAP EQUIVALENT-POS	0.1	NC	0.0078443	0.0042 U	0.00442 U	0.00422 U	0.0120596	**0.14745 [H]**
BENZO(A)ANTHRACENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.0786
BENZO(A)PYRENE	NC	NC	0.00616 J	0.0042 U	0.00442 U	0.00422 U	0.00762	0.0997
BENZO(B)FLUORANTHENE	NC	NC	0.01	0.0042 U	0.00442 U	0.00422 U	0.0119	0.139
BENZO(G,H,I)PERYLENE	NC	NC	0.00618 J	0.0042 U	0.00442 U	0.00422 U	0.00707 J	0.076
BENZO(K)FLUORANTHENE	NC	NC	0.00373 J	0.0042 U	0.00442 U	0.00422 U	0.00426 J	0.0483
CHRYSENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.0973
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00256 J	0.0176
FLUORANTHENE	NC	NC	0.00781 J	0.0042 U	0.00442 U	0.00422 U	0.00902	0.0889
FLUORENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.00201 J
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00647 J	0.0042 U	0.00442 U	0.00422 U	0.00647 J	0.0781
NAPHTHALENE	NC	NC	0.00446 U	0.0042 U	0.00442 U	0.00422 U	0.00375 U	0.00399 U
PHENANTHRENE	NC	NC	0.00286 J	0.0042 U	0.00442 U	0.00422 U	0.00384 J	0.0199
PYRENE	NC	NC	0.00724 J	0.0042 U	0.00442 U	0.00422 U	0.00861	0.0903
XRF (MG/KG)								
LEAD	400	192	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB261				X7-SB262		X7-SB263	
SAMPLE ID			X7-SS261-0001	X7-SS261-0102	X7-SB261-0204	X7-SB261-0406	X7-SS262-0001	X7-SS262-0102	X7-SS263-0001	X7-SS263-0102
SAMPLE DATE			20111109	20111109	20120906	20120906	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SS	SS
TOP DEPTH			0	1	2	4	0	1	0	1
BOTTOM DEPTH			1	2	4	6	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00398 U	0.0395 U	0.00378 U	0.00403 U	0.00405 U	0.00397 U	0.00389 U	0.00388 U
2-METHYLNAPHTHALENE	NC	NC	0.00398 U	0.0395 U	0.00378 U	0.00403 U	0.00405 U	0.00397 U	0.00389 U	0.00388 U
ACENAPHTHENE	NC	NC	0.00398 U	0.0395 U	0.00378 U	0.00403 U	0.00765 J	0.00397 U	0.00587 J	0.00388 U
ANTHRACENE	NC	NC	0.00398 U	0.0395 U	0.00378 U	0.00403 U	0.0115	0.00275 J	0.0119	0.00388 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0298196	**0.29309 [H]**	0.0044058	0.0307097	**0.49805 [H]**	0.0902324	**0.41523 [H]**	0.0058335
BAP EQUIVALENT-POS	0.1	NC	0.0298196	**0.29309 [H]**	0.002117	0.0286947	**0.49805 [H]**	0.0902324	**0.41523 [H]**	0.0036976
BENZO(A)ANTHRACENE	NC	NC	0.0173	0.124	0.00378 U	0.0193	0.3	0.0458	0.248	0.00388 U
BENZO(A)PYRENE	NC	NC	0.0199	0.191	0.00189 J	0.0225	0.345	0.0604	0.283	0.00305 J
BENZO(B)FLUORANTHENE	NC	NC	0.0281	0.262	0.00227 J	0.0278	0.473	0.0814	0.372	0.00345 J
BENZO(G,H,I)PERYLENE	NC	NC	0.0161	0.156	0.00378 U	0.0161	0.229	0.0525	0.218	0.00274 J
BENZO(K)FLUORANTHENE	NC	NC	0.0108	0.0916	0.00378 U	0.00966	0.169	0.0283	0.133	0.00196 J
CHRYSENE	NC	NC	0.0216	0.171	0.00378 U	0.0181	0.362	0.0594	0.3	0.00388 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00358 J	0.0452 J	0.00378 U	0.00403 U	0.0493	0.0112	0.0468	0.00388 U
FLUORANTHENE	NC	NC	0.0199	0.158	0.00378 U	0.0169	0.336	0.0544	0.301	0.00286 J
FLUORENE	NC	NC	0.00398 U	0.0395 U	0.00378 U	0.00403 U	0.00389 J	0.00397 U	0.00368 J	0.00388 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.0167	0.172	0.00378 U	0.0137	0.244	0.0557	0.218	0.00283 J
NAPHTHALENE	NC	NC	0.00398 U	0.0395 U	0.00227 U	0.00242 U	0.00405 U	0.00397 U	0.00389 U	0.00388 U
PHENANTHRENE	NC	NC	0.00437 J	0.0282 J	0.00378 U	0.00403 U	0.0549	0.0113	0.0559	0.00388 U
PYRENE	NC	NC	0.0204	0.159	0.00378 U	0.0161	0.345	0.0551	0.301	0.00282 J
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB265		X7-SB266		X7-SB267	
SAMPLE ID			X7-SS265-0001	X7-SS265-0102	X7-SS266-0001	X7-SS266-0102	X7-SS267-0001	X7-SS267-0102
SAMPLE DATE			20111109	20111109	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00404 U	0.00397 U	0.00405 U
2-METHYLNAPHTHALENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00404 U	0.00397 U	0.00405 U
ACENAPHTHENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00404 U	0.00397 U	0.00405 U
ANTHRACENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00404 U	0.00397 U	0.00405 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0184182	0.0058498	0.0135365	0.0428044	0.0138946	0.0221614
BAP EQUIVALENT-POS	0.1	NC	0.0161722	0.003337	0.0114715	0.0428044	0.0117091	0.0221614
BENZO(A)ANTHRACENE	NC	NC	0.00408 U	0.00415 U	0.00644 J	0.0201	0.00397 U	0.0117
BENZO(A)PYRENE	NC	NC	0.0133	0.00287 J	0.00893	0.0269	0.00957	0.0141
BENZO(B)FLUORANTHENE	NC	NC	0.0189	0.00467 J	0.0126	0.0406	0.0136	0.0185
BENZO(G,H,I)PERYLENE	NC	NC	0.00976	0.00221 J	0.00668 J	0.0225	0.0069 J	0.0119
BENZO(K)FLUORANTHENE	NC	NC	0.00652 J	0.00415 U	0.00497 J	0.0158	0.00561 J	0.00785 J
CHRYSENE	NC	NC	0.00408 U	0.00415 U	0.00776 J	0.0264	0.00397 U	0.0129
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00726 J	0.00397 U	0.00378 J
FLUORANTHENE	NC	NC	0.0199	0.00642 J	0.00867	0.0237	0.009	0.0132
FLUORENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00404 U	0.00397 U	0.00405 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00917	0.00415 U	0.0058 J	0.0239	0.00723 J	0.0117
NAPHTHALENE	NC	NC	0.00408 U	0.00415 U	0.00413 U	0.00404 U	0.00397 U	0.00405 U
PHENANTHRENE	NC	NC	0.00895	0.0061 J	0.00327 J	0.00441 J	0.0032 J	0.00408 J
PYRENE	NC	NC	0.0183	0.00455 J	0.00824 J	0.0229	0.00904	0.013
XRF (MG/KG)								
LEAD	400	192	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB270				X7-SB271		X7-SB272	
SAMPLE ID			X7-SS270-0001	X7-SS270-0102	X7-SS270-0102-AVG	X7-SS270-0102-D	X7-SS271-0001	X7-SS271-0102	X7-SS272-0001	X7-SS272-0102
SAMPLE DATE			20111109	20111109	20111109	20111109	20111109	20111109	20111109	20111109
SAMPLE CODE			NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	1	1	0	1	0	1
BOTTOM DEPTH			1	2	2	2	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.00422 U	0.00398 U	0.00409 U	0.00412 U
2-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.00422 U	0.00398 U	0.00409 U	0.00412 U
ACENAPHTHENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.00422 U	0.00297 J	0.00275 J	0.00272 J
ANTHRACENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.00422 U	0.00403 J	0.00403 J	0.00537 J
BAP EQUIVALENT-HALFND	0.1	NC	0.011843	0.004 U	0.00393 U	0.00386 U	0.0833637	**0.15333 [H]**	**0.13957 [H]**	**0.17711 [H]**
BAP EQUIVALENT-POS	0.1	NC	0.009813	0.004 U	0.00393 U	0.00386 U	0.0833637	**0.15333 [H]**	**0.13957 [H]**	**0.17711 [H]**
BENZO(A)ANTHRACENE	NC	NC	0.00642 J	0.004 U	0.00393 U	0.00386 U	0.0414	0.0832	0.0743	0.0974
BENZO(A)PYRENE	NC	NC	0.00758 J	0.004 U	0.00393 U	0.00386 U	0.0559	0.106	0.0932	0.121
BENZO(B)FLUORANTHENE	NC	NC	0.00949	0.004 U	0.00393 U	0.00386 U	0.079	0.145	0.131	0.163
BENZO(G,H,I)PERYLENE	NC	NC	0.00585 J	0.004 U	0.00393 U	0.00386 U	0.0412	0.0723	0.0691	0.086
BENZO(K)FLUORANTHENE	NC	NC	0.00463 J	0.004 U	0.00393 U	0.00386 U	0.0279	0.0546	0.0488	0.0641
CHRYSENE	NC	NC	0.00773 J	0.004 U	0.00393 U	0.00386 U	0.0547	0.102	0.0935	0.117
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.0106	0.0162	0.0181	0.021
FLUORANTHENE	NC	NC	0.00983	0.004 U	0.00393 U	0.00386 U	0.0491	0.0961	0.0865	0.114
FLUORENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.00422 U	0.00398 U	0.00214 J	0.00412 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00588 J	0.004 U	0.00393 U	0.00386 U	0.0449	0.0766	0.0716	0.0831
NAPHTHALENE	NC	NC	0.00406 U	0.004 U	0.00393 U	0.00386 U	0.00422 U	0.00398 U	0.00409 U	0.00412 U
PHENANTHRENE	NC	NC	0.00483 J	0.004 U	0.00393 U	0.00386 U	0.00948	0.0169	0.0215	0.0208
PYRENE	NC	NC	0.00835	0.004 U	0.00393 U	0.00386 U	0.0488	0.0975	0.0839	0.116
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB491		X7-SB492		X7-SB493		X7-SB494	
SAMPLE ID			X7-SS491-0001	X7-SS491-0102	X7-SS492-0001	X7-SS492-0102	X7-SS493-0001	X7-SS493-0102	X7-SS494-0001	X7-SS494-0102
SAMPLE DATE			20120906	20120906	20120906	20120906	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00398 U	0.00359 U	0.00405 U	0.00365 U	0.00402 U	0.00361 U	0.00403 U	0.00378 U
2-METHYLNAPHTHALENE	NC	NC	0.00398 U	0.00359 U	0.00405 U	0.00365 U	0.00402 U	0.00361 U	0.00403 U	0.00378 U
ACENAPHTHENE	NC	NC	0.00398 U	0.00359 U	0.00405 U	0.00365 U	0.00402 U	0.00361 U	0.00403 U	0.00378 U
ANTHRACENE	NC	NC	0.00398 U	0.00359 U	0.00405 U	0.00365 U	0.00281 J	0.00361 U	0.00403 U	0.00378 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0134882	0.00359 U	0.0606527	0.0067378	**0.1202 [H]**	0.00361 U	0.02297	0.00378 U
BAP EQUIVALENT-POS	0.1	NC	0.0114982	0.00359 U	0.0586277	0.0048946	**0.11819 [H]**	0.00361 U	0.020955	0.00378 U
BENZO(A)ANTHRACENE	NC	NC	0.00995	0.00359 U	0.0373	0.00548 J	0.0751	0.00361 U	0.0157	0.00378 U
BENZO(A)PYRENE	NC	NC	0.00875	0.00359 U	0.0458	0.00365 J	0.0916	0.00361 U	0.0161	0.00378 U
BENZO(B)FLUORANTHENE	NC	NC	0.0119	0.00359 U	0.062	0.00475 J	0.13	0.00361 U	0.0226	0.00378 U
BENZO(G,H,I)PERYLENE	NC	NC	0.00676 J	0.00359 U	0.0308	0.00365 U	0.0679	0.00361 U	0.0117	0.00378 U
BENZO(K)FLUORANTHENE	NC	NC	0.00398 J	0.00359 U	0.0186	0.00365 U	0.0422	0.00361 U	0.00847	0.00378 U
CHRYSENE	NC	NC	0.00637 J	0.00359 U	0.0417	0.00256 J	0.0715	0.00361 U	0.0133	0.00378 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00398 U	0.00359 U	0.00405 U	0.00365 U	0.00402 U	0.00361 U	0.00403 U	0.00378 U
FLUORANTHENE	NC	NC	0.00756 J	0.00359 U	0.0413	0.00256 J	0.0759	0.00361 U	0.0141	0.00378 U
FLUORENE	NC	NC	0.00398 U	0.00359 U	0.00405 U	0.00365 U	0.00402 U	0.00361 U	0.00403 U	0.00378 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00517 J	0.00359 U	0.0267	0.00219 J	0.0559	0.00361 U	0.00927	0.00378 U
NAPHTHALENE	NC	NC	0.00239 U	0.00215 U	0.00243 U	0.00219 U	0.00241 U	0.00216 U	0.00242 U	0.00227 U
PHENANTHRENE	NC	NC	0.00239 J	0.00359 U	0.0081	0.00365 U	0.0141	0.00361 U	0.00363 J	0.00378 U
PYRENE	NC	NC	0.00836	0.00359 U	0.0385	0.00256 J	0.0751	0.00361 U	0.0137	0.00378 U
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB497		X7-SB498		X7-SB502		X7-SB503	
SAMPLE ID			X7-SS497-0001	X7-SS497-0102	X7-SS498-0001	X7-SS498-0102	X7-SS502-0001	X7-SS502-0102	X7-SS503-0001	X7-SS503-0102
SAMPLE DATE			20121003	20121003	20120906	20120906	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00437 U	0.00405 U	0.00406 U	0.00385 U	0.00416 U	0.00364 U	0.00425 U	0.00408 U
2-METHYLNAPHTHALENE	NC	NC	0.00437 U	0.00405 U	0.00406 U	0.00385 U	0.00416 U	0.00364 U	0.00425 U	0.00408 U
ACENAPHTHENE	NC	NC	0.00437 U	0.00405 U	0.00406 U	0.00385 U	0.00416 U	0.00364 U	0.00255 J	0.00408 U
ANTHRACENE	NC	NC	0.00437 U	0.00405 U	0.00406 U	0.00385 U	0.00416 U	0.00364 U	0.00638 J	0.00408 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0181802	0.0342331	0.0052233	0.00385 U	0.0351322	0.0077431	**0.16352 [H]**	0.0117023
BAP EQUIVALENT-POS	0.1	NC	0.0159952	0.0322081	0.002765	0.00385 U	0.0330522	0.0059231	**0.16139 [H]**	0.0096623
BENZO(A)ANTHRACENE	NC	NC	0.0136	0.0219	0.00406 U	0.00385 U	0.0212	0.00655 J	0.0906	0.00897
BENZO(A)PYRENE	NC	NC	0.0122	0.0251	0.00244 J	0.00385 U	0.0258	0.00437 J	0.128	0.00734 J
BENZO(B)FLUORANTHENE	NC	NC	0.0166	0.0353	0.00325 J	0.00385 U	0.0349	0.00618 J	0.167	0.0102
BENZO(G,H,I)PERYLENE	NC	NC	0.00875	0.0146	0.00406 U	0.00385 U	0.0183	0.00291 J	0.0795	0.00449 J
BENZO(K)FLUORANTHENE	NC	NC	0.00656 J	0.0105	0.00406 U	0.00385 U	0.0121	0.00218 J	0.0591	0.00326 J
CHRYSENE	NC	NC	0.00962	0.0231	0.00406 U	0.00385 U	0.0212	0.00327 J	0.112	0.00571 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00437 U	0.00405 U	0.00406 U	0.00385 U	0.00416 U	0.00364 U	0.00425 U	0.00408 U
FLUORANTHENE	NC	NC	0.0153	0.0227	0.00284 J	0.00385 U	0.02	0.004 J	0.106	0.00897
FLUORENE	NC	NC	0.00437 U	0.00405 U	0.00406 U	0.00385 U	0.00416 U	0.00364 U	0.00255 J	0.00408 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.007 J	0.0126	0.00406 U	0.00385 U	0.015	0.00255 J	0.0693	0.00367 J
NAPHTHALENE	NC	NC	0.00262 U	0.00243 U	0.00244 U	0.00231 U	0.0025 U	0.00218 U	0.00255 U	0.00245 U
PHENANTHRENE	NC	NC	0.00743 J	0.00649 J	0.00406 U	0.00385 U	0.00499 J	0.00364 U	0.0323	0.00408 J
PYRENE	NC	NC	0.0149	0.0243	0.00244 J	0.00385 U	0.0196	0.004 J	0.1	0.00856
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB504		X7-SB505				X7-SB506	
SAMPLE ID			X7-SS504-0001	X7-SS504-0102	X7-SS505-0001	X7-SS505-0102	X7-SB505-0204	X7-SB505-0406	X7-SS506-0001	X7-SS506-0102
SAMPLE DATE			20121003	20121003	20120906	20120906	20120906	20120906	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SB	SS	SS
TOP DEPTH			0	1	0	1	2	4	0	1
BOTTOM DEPTH			1	2	1	2	4	6	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00413 U	0.00392 U	0.00408 U	0.0329 J	0.00391 U	0.00401 U	0.0041 U	0.00403 U
2-METHYLNAPHTHALENE	NC	NC	0.00413 U	0.00392 U	0.00408 U	0.0542	0.00391 U	0.00401 U	0.0041 U	0.00403 U
ACENAPHTHENE	NC	NC	0.00413 U	0.00392 U	0.00408 U	0.292	0.00391 U	0.00401 U	0.0041 U	0.00403 U
ANTHRACENE	NC	NC	0.00413 U	0.00392 U	0.00408 U	0.372	0.00391 U	0.00401 U	0.0041 U	0.00403 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0073841	0.00392 U	0.0123235	**19.3934 [H]**	0.00391 U	0.00401 U	0.0047376	0.0051347
BAP EQUIVALENT-POS	0.1	NC	0.0053191	0.00392 U	0.0102835	**19.3837 [H]**	0.00391 U	0.00401 U	0.000205	0.002898
BENZO(A)ANTHRACENE	NC	NC	0.00744 J	0.00392 U	0.00979	10.6	0.00391 U	0.00401 U	0.0041 U	0.00564 J
BENZO(A)PYRENE	NC	NC	0.00372 J	0.00392 U	0.00775 J	15.4	0.00391 U	0.00401 U	0.0041 U	0.00201 J
BENZO(B)FLUORANTHENE	NC	NC	0.00579 J	0.00392 U	0.011	20.9	0.00391 U	0.00401 U	0.00205 J	0.00322 J
BENZO(G,H,I)PERYLENE	NC	NC	0.00289 J	0.00392 U	0.00489 J	8.65	0.00391 U	0.00401 U	0.0041 U	0.00403 U
BENZO(K)FLUORANTHENE	NC	NC	0.00248 J	0.00392 U	0.00408 J	6.93	0.00391 U	0.00401 U	0.0041 U	0.00403 U
CHRYSENE	NC	NC	0.00331 J	0.00392 U	0.00571 J	13.4	0.00391 U	0.00401 U	0.0041 U	0.00201 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00413 U	0.00392 U	0.00408 U	0.0194 U	0.00391 U	0.00401 U	0.0041 U	0.00403 U
FLUORANTHENE	NC	NC	0.0062 J	0.00392 U	0.00693 J	11.8	0.00391 U	0.00401 U	0.0041 U	0.00403 J
FLUORENE	NC	NC	0.00413 U	0.00392 U	0.00408 U	0.19	0.00391 U	0.00401 U	0.0041 U	0.00403 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00248 J	0.00392 U	0.00408 J	7.51	0.00391 U	0.00401 U	0.0041 U	0.00403 U
NAPHTHALENE	NC	NC	0.00248 U	0.00235 U	0.00245 U	0.134	0.00235 U	0.0024 U	0.00246 U	0.00242 U
PHENANTHRENE	NC	NC	0.00372 J	0.00392 U	0.00408 U	1.97	0.00391 U	0.00401 U	0.0041 U	0.00403 U
PYRENE	NC	NC	0.00579 J	0.00392 U	0.00693 J	12.7	0.00391 U	0.00401 U	0.0041 U	0.00362 J
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB507		X7-SB510		X7-SB511			
SAMPLE ID			X7-SS507-0001	X7-SS507-0102	X7-SS510-0001	X7-SS510-0102	X7-SS511-0001	X7-SS511-0102	X7-SS511-0102-AVG	X7-SS511-0102-D
SAMPLE DATE			20120906	20120906	20120906	20120906	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	AVG	DUP
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1	1	1
BOTTOM DEPTH			1	2	1	2	1	2	2	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00363 U	0.00409 U	0.00388 U	0.00387 U	0.00386 U
2-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00363 U	0.00286 J	0.00388 U	0.00387 U	0.00386 U
ACENAPHTHENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00363 U	0.00695 J	0.00388 U	0.00387 U	0.00386 U
ANTHRACENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00363 U	0.009 J	0.00388 U	0.00387 U	0.00386 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0047323	0.0045521	0.0109776	0.0540542	**0.50172 [H]**	0.0097786	0.0140315	0.0182844
BAP EQUIVALENT-POS	0.1	NC	0.000244	0.002227	0.0089876	0.0522392	**0.49968 [H]**	0.0078386	0.0120965	0.0163544
BENZO(A)ANTHRACENE	NC	NC	0.00406 U	0.00384 U	0.00835	0.0316	0.272	0.00776 J	0.01003	0.0123
BENZO(A)PYRENE	NC	NC	0.00406 U	0.00192 J	0.00676 J	0.0411	0.4	0.00582 J	0.00926	0.0127
BENZO(B)FLUORANTHENE	NC	NC	0.00244 J	0.00307 J	0.00954	0.0545	0.494	0.00854	0.01297	0.0174
BENZO(G,H,I)PERYLENE	NC	NC	0.00406 U	0.00384 U	0.00477 J	0.0269	0.242	0.00388 J	0.00541	0.00694 J
BENZO(K)FLUORANTHENE	NC	NC	0.00406 U	0.00384 U	0.00358 J	0.0204	0.185	0.00349 J	0.004635	0.00578 J
CHRYSENE	NC	NC	0.00406 U	0.00384 U	0.00477 J	0.0352	0.328	0.00466 J	0.00715	0.00964
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00363 U	0.00409 U	0.00388 U	0.00387 U	0.00386 U
FLUORANTHENE	NC	NC	0.00406 U	0.0023 J	0.00676 J	0.0327	0.302	0.00738 J	0.01004	0.0127
FLUORENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00363 U	0.00409 J	0.00388 U	0.00387 U	0.00386 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00406 U	0.00384 U	0.00398 J	0.0229	0.209	0.00349 J	0.00483	0.00617 J
NAPHTHALENE	NC	NC	0.00244 U	0.0023 U	0.00239 U	0.00218 U	0.0119	0.00233 U	0.00232 U	0.00231 U
PHENANTHRENE	NC	NC	0.00406 U	0.00384 U	0.00398 U	0.00581 J	0.0503	0.00311 J	0.00329	0.00347 J
PYRENE	NC	NC	0.00406 U	0.0023 J	0.00636 J	0.0323	0.315	0.00621 J	0.009455	0.0127
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB513		X7-SB518		X7-SB519	
SAMPLE ID			X7-SS513-0001	X7-SS513-0102	X7-SS518-0001	X7-SS518-0102	X7-SS519-0001	X7-SS519-0102
SAMPLE DATE			20121003	20121003	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)								
1-METHYLNAPHTHALENE	NC	NC	0.00407 U	0.00392 U	0.00404 U	0.00369 U	0.0039 U	0.00366 U
2-METHYLNAPHTHALENE	NC	NC	0.00407 U	0.00392 U	0.00404 U	0.00369 U	0.0039 U	0.00366 U
ACENAPHTHENE	NC	NC	0.00407 U	0.00392 U	0.00404 U	0.00369 U	0.0039 U	0.00366 U
ANTHRACENE	NC	NC	0.00407 U	0.00392 U	0.00404 U	0.00369 U	0.0039 U	0.00366 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0066622	0.00392 U	0.038344	0.0087832	0.0294945	0.0227381
BAP EQUIVALENT-POS	0.1	NC	0.0046069	0.00392 U	0.036324	0.0069382	0.0275445	0.0209081
BENZO(A)ANTHRACENE	NC	NC	0.00692 J	0.00392 U	0.0234	0.00702 J	0.0179	0.0161
BENZO(A)PYRENE	NC	NC	0.00326 J	0.00392 U	0.0283	0.00517 J	0.0214	0.0161
BENZO(B)FLUORANTHENE	NC	NC	0.00448 J	0.00392 U	0.0388	0.00738 J	0.0288	0.0212
BENZO(G,H,I)PERYLENE	NC	NC	0.00285 J	0.00392 U	0.0198	0.00369 J	0.016	0.0121
BENZO(K)FLUORANTHENE	NC	NC	0.00407 U	0.00392 U	0.0121	0.00295 J	0.00974	0.00769
CHRYSENE	NC	NC	0.00285 J	0.00392 U	0.023	0.00369 J	0.0171	0.0132
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00407 U	0.00392 U	0.00404 U	0.00369 U	0.0039 U	0.00366 U
FLUORANTHENE	NC	NC	0.00488 J	0.00392 U	0.0198	0.0048 J	0.0183	0.0132
FLUORENE	NC	NC	0.00407 U	0.00392 U	0.00404 U	0.00369 U	0.0039 U	0.00366 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00204 J	0.00392 U	0.0166	0.00295 J	0.0136	0.00988
NAPHTHALENE	NC	NC	0.00244 U	0.00235 U	0.00242 U	0.00222 U	0.00234 U	0.0022 U
PHENANTHRENE	NC	NC	0.00285 J	0.00392 U	0.00444 J	0.00369 U	0.00468 J	0.00366 J
PYRENE	NC	NC	0.00529 J	0.00392 U	0.0194	0.00443 J	0.0195	0.0132
XRF (MG/KG)								
LEAD	400	192	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB521				X7-SB522		X7-SB525	
SAMPLE ID			X7-SS521-0001	X7-SS521-0102	X7-SS521-0102-AVG	X7-SS521-0102-D	X7-SS522-0001	X7-SS522-0102	X7-SS525-0001	X7-SS525-0102
SAMPLE DATE			20120906	20120906	20120906	20120906	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	1	1	0	1	0	1
BOTTOM DEPTH			1	2	2	2	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00394 U	0.0038 U	0.003795 U	0.00379 U	0.00411 U	0.00386 U	0.0041 U	0.00387 U
2-METHYLNAPHTHALENE	NC	NC	0.00394 U	0.0038 U	0.003795 U	0.00379 U	0.00411 U	0.00386 U	0.0041 U	0.00387 U
ACENAPHTHENE	NC	NC	0.00394 U	0.0038 U	0.003795 U	0.00379 U	0.00411 U	0.00386 U	0.0041 U	0.00387 U
ANTHRACENE	NC	NC	0.00394 U	0.0038 U	0.003795 U	0.00379 U	0.00411 U	0.00386 U	0.0041 U	0.00387 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0126071	0.0049609	0.0047084	0.0044558	0.0110911	0.0045762	0.0057216	0.00387 U
BAP EQUIVALENT-POS	0.1	NC	0.0106371	0.00266	0.001463	0.000266	0.0090361	0.002239	0.003444	0.00387 U
BENZO(A)ANTHRACENE	NC	NC	0.0102	0.0038 U	0.003795 U	0.00379 U	0.00945	0.00386 U	0.0041 U	0.00387 U
BENZO(A)PYRENE	NC	NC	0.00788	0.00228 J	0.00228 J	0.00379 U	0.00657 J	0.00193 J	0.00287 J	0.00387 U
BENZO(B)FLUORANTHENE	NC	NC	0.0114	0.0038 J	0.00323	0.00266 J	0.0103	0.00309 J	0.00369 J	0.00387 U
BENZO(G,H,I)PERYLENE	NC	NC	0.0067 J	0.0038 U	0.003795 U	0.00379 U	0.00534 J	0.00386 U	0.00287 J	0.00387 U
BENZO(K)FLUORANTHENE	NC	NC	0.00394 J	0.0038 U	0.003795 U	0.00379 U	0.00329 J	0.00386 U	0.0041 U	0.00387 U
CHRYSENE	NC	NC	0.0067 J	0.0038 U	0.003795 U	0.00379 U	0.00616 J	0.00386 U	0.0041 U	0.00387 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00394 U	0.0038 U	0.003795 U	0.00379 U	0.00411 U	0.00386 U	0.0041 U	0.00387 U
FLUORANTHENE	NC	NC	0.00788	0.00304 J	0.00247	0.0019 J	0.00986	0.00231 J	0.00328 J	0.00387 U
FLUORENE	NC	NC	0.00394 U	0.0038 U	0.003795 U	0.00379 U	0.00411 U	0.00386 U	0.0041 U	0.00387 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00551 J	0.0038 U	0.003795 U	0.00379 U	0.00452 J	0.00386 U	0.00205 J	0.00387 U
NAPHTHALENE	NC	NC	0.00236 U	0.00228 U	0.00228 U	0.00228 U	0.00247 U	0.00231 U	0.00246 U	0.00232 U
PHENANTHRENE	NC	NC	0.00236 J	0.0038 U	0.003795 U	0.00379 U	0.00534 J	0.00386 U	0.0041 U	0.00387 U
PYRENE	NC	NC	0.00709 J	0.00228 J	0.00228 J	0.00379 U	0.0074 J	0.00193 J	0.00287 J	0.00387 U
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB526				X7-SB527			
SAMPLE ID			X7-SS526-0001	X7-SS526-0102	X7-SB526-0204	X7-SB526-0406	X7-SS527-0001	X7-SS527-0102	X7-SB527-0204	X7-SB527-0406
SAMPLE DATE			20120906	20120906	20120906	20120906	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	4	0	1	2	4
BOTTOM DEPTH			1	2	4	6	1	2	4	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.00373 U	0.00372 U	0.00392 U	0.00412 U	0.00381 U	0.00377 U	0.0039 U
2-METHYLNAPHTHALENE	NC	NC	0.00406 U	0.00373 U	0.00372 U	0.00392 U	0.00412 U	0.00381 U	0.00377 U	0.0039 U
ACENAPHTHENE	NC	NC	0.00406 U	0.00633 J	0.00372 U	0.00392 U	0.00412 U	0.00191 J	0.00377 U	0.0039 U
ANTHRACENE	NC	NC	0.00406 U	0.0134	0.00372 U	0.00392 U	0.00412 U	0.00381 J	0.00377 U	0.0039 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0081501	**0.30244 [H]**	0.0073883	0.006375	0.0052937	**0.18349 [H]**	0.00377 U	0.0103232
BAP EQUIVALENT-POS	0.1	NC	0.0059171	**0.30057 [H]**	0.0055283	0.0041994	0.002799	**0.18158 [H]**	0.00377 U	0.0083732
BENZO(A)ANTHRACENE	NC	NC	0.00406 U	0.168	0.00632 J	0.00392 U	0.00412 U	0.106	0.00377 U	0.00857
BENZO(A)PYRENE	NC	NC	0.00487 J	0.237	0.00409 J	0.00353 J	0.00247 J	0.144	0.00377 U	0.00623 J
BENZO(B)FLUORANTHENE	NC	NC	0.0069 J	0.325	0.00521 J	0.00432 J	0.00329 J	0.182	0.00377 U	0.00818
BENZO(G,H,I)PERYLENE	NC	NC	0.00446 J	0.162	0.00335 J	0.00275 J	0.00412 U	0.0926	0.00377 U	0.00506 J
BENZO(K)FLUORANTHENE	NC	NC	0.00284 J	0.116	0.00223 J	0.00392 U	0.00412 U	0.0762	0.00377 U	0.00351 J
CHRYSENE	NC	NC	0.00365 J	0.213	0.00298 J	0.00235 J	0.00412 U	0.13	0.00377 U	0.00506 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00406 U	0.00373 U	0.00372 U	0.00392 U	0.00412 U	0.00381 U	0.00377 U	0.0039 U
FLUORANTHENE	NC	NC	0.00487 J	0.227	0.00298 J	0.00314 J	0.00288 J	0.116	0.00377 U	0.00467 J
FLUORENE	NC	NC	0.00406 U	0.00522 J	0.00372 U	0.00392 U	0.00412 U	0.00381 U	0.00377 U	0.0039 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00325 J	0.129	0.0026 J	0.00235 J	0.00412 U	0.0789	0.00377 U	0.00428 J
NAPHTHALENE	NC	NC	0.00243 U	0.00447 J	0.00223 U	0.00235 U	0.00247 U	0.00229 U	0.00226 U	0.00234 U
PHENANTHRENE	NC	NC	0.00406 U	0.0663	0.00372 U	0.00392 U	0.00412 U	0.0191	0.00377 U	0.0039 U
PYRENE	NC	NC	0.00446 J	0.223	0.00298 J	0.00314 J	0.00247 J	0.112	0.00377 U	0.00467 J
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB528				X7-SB529		X7-SB530	
SAMPLE ID			X7-SS528-0001	X7-SS528-0102	X7-SB528-0204	X7-SB528-0406	X7-SS529-0001	X7-SS529-0102	X7-SS530-0001	X7-SS530-0102
SAMPLE DATE			20120906	20120906	20120906	20120906	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SS	SS
TOP DEPTH			0	1	2	4	0	1	0	1
BOTTOM DEPTH			1	2	4	6	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00393 U	0.0507	0.00373 J	0.00397 U	0.00426 U	0.00383 U	0.00414 U	0.00393 U
2-METHYLNAPHTHALENE	NC	NC	0.00393 U	0.0598	0.00523 J	0.00278 J	0.00426 U	0.00383 U	0.00414 U	0.00393 U
ACENAPHTHENE	NC	NC	0.00393 U	0.545	0.0384	0.0206	0.00426 U	0.00383 U	0.00414 U	0.00393 U
ANTHRACENE	NC	NC	0.00393 U	0.502	0.0429	0.0246	0.00426 U	0.00383 U	0.00414 U	0.00314 J
BAP EQUIVALENT-HALFND	0.1	NC	0.0122648	**17.5821 [H]**	**1.93857 [H]**	**1.3748 [H]**	0.0334116	0.088444	0.0132097	**0.13247 [H]**
BAP EQUIVALENT-POS	0.1	NC	0.0102998	**17.573 [H]**	**1.9367 [H]**	**1.37282 [H]**	0.0312816	0.086529	0.0111397	**0.1305 [H]**
BENZO(A)ANTHRACENE	NC	NC	0.00864	10.2	1.17	0.764	0.0221	0.0505	0.0103	0.0762
BENZO(A)PYRENE	NC	NC	0.00785	13.8	1.51	1.08	0.0243	0.0681	0.00827	0.103
BENZO(B)FLUORANTHENE	NC	NC	0.011	19.1	2.03	1.41	0.0328	0.0919	0.0124	0.14
BENZO(G,H,I)PERYLENE	NC	NC	0.00511 J	8.5	1.22	0.871	0.0149	0.0459	0.00703 J	0.0589
BENZO(K)FLUORANTHENE	NC	NC	0.00471 J	6.72	0.726	0.568	0.0149	0.0337	0.00538 J	0.0483
CHRYSENE	NC	NC	0.00668 J	12.8	1.24	0.936	0.0226	0.062	0.00786 J	0.0896
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00393 U	0.0181 U	0.00373 U	0.00397 U	0.00426 U	0.00383 U	0.00414 U	0.00393 U
FLUORANTHENE	NC	NC	0.00707 J	11.8	1.2	0.791	0.0226	0.0544	0.00703 J	0.0762
FLUORENE	NC	NC	0.00393 U	0.192	0.019	0.0135	0.00426 U	0.00383 U	0.00414 U	0.00393 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00432 J	7.63	0.982	0.688	0.0132	0.0379	0.00538 J	0.0531
NAPHTHALENE	NC	NC	0.00236 U	0.154	0.0119	0.00674 J	0.00256 U	0.0023 U	0.00248 U	0.00393 J
PHENANTHRENE	NC	NC	0.00275 J	1.91	0.201	0.142	0.00554 J	0.00766	0.00414 U	0.0145
PYRENE	NC	NC	0.00746 J	11.4	1.1	0.768	0.0226	0.0547	0.00662 J	0.0794
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB531		X7-SB533		X7-SB535			
SAMPLE ID			X7-SS531-0001	X7-SS531-0102	X7-SS533-0001	X7-SS533-0102	X7-SS535-0001	X7-SS535-0102	X7-SB535-0204	X7-SB535-0406
SAMPLE DATE			20120906	20120906	20121003	20121003	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	1	0	1	0	1	2	4
BOTTOM DEPTH			1	2	1	2	1	2	4	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00398 U	0.0406 U	0.00403 U	0.00416 U	0.00396 U	0.00622 J	0.00364 U	0.00409 U
2-METHYLNAPHTHALENE	NC	NC	0.00398 U	0.0406 U	0.00403 U	0.00416 U	0.00396 U	0.00895	0.00364 U	0.00409 U
ACENAPHTHENE	NC	NC	0.00398 U	0.0406 U	0.00403 U	0.00416 U	0.00396 U	0.0521	0.00364 U	0.00409 U
ANTHRACENE	NC	NC	0.00398 U	0.0406 U	0.00403 U	0.00416 U	0.00396 U	0.158	0.00473 J	0.00409 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0110958	0.0610333	0.00403 U	**0.12542 [H]**	0.0360608	**3.0933 [H]**	**0.12398 [H]**	0.0066474
BAP EQUIVALENT-POS	0.1	NC	0.0091058	0.03848	0.00403 U	**0.12542 [H]**	0.0340808	**3.09135 [H]**	**0.12216 [H]**	0.0043775
BENZO(A)ANTHRACENE	NC	NC	0.00955	0.0406 U	0.00403 U	0.0741	0.0214	1.99	0.0768	0.00409 U
BENZO(A)PYRENE	NC	NC	0.00676 J	0.0324 J	0.00403 U	0.092	0.0266	2.46	0.0961	0.00368 J
BENZO(B)FLUORANTHENE	NC	NC	0.00995	0.0365 J	0.00403 U	0.123	0.0373	3.05	0.12	0.0045 J
BENZO(G,H,I)PERYLENE	NC	NC	0.00438 J	0.0243 J	0.00403 U	0.0475	0.0178	1.22	0.0685	0.00286 J
BENZO(K)FLUORANTHENE	NC	NC	0.00318 J	0.0406 U	0.00403 U	0.0421	0.0159	1.13	0.0437	0.00409 U
CHRYSENE	NC	NC	0.00597 J	0.0406 U	0.00403 U	0.0849	0.0218	2.05	0.0867	0.00245 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00398 U	0.0406 U	0.00403 U	0.00874	0.00396 U	0.00389 U	0.00364 U	0.00409 U
FLUORANTHENE	NC	NC	0.00835	0.0406 U	0.00403 U	0.0787	0.021	2.86	0.0987	0.00286 J
FLUORENE	NC	NC	0.00398 U	0.0406 U	0.00403 U	0.00416 U	0.00396 U	0.0323	0.00364 U	0.00409 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00358 J	0.0243 J	0.00403 U	0.0446	0.0143	1.14	0.0586	0.00245 J
NAPHTHALENE	NC	NC	0.00239 U	0.0243 U	0.00242 U	0.0025 U	0.00238 U	0.0362	0.00219 U	0.00245 U
PHENANTHRENE	NC	NC	0.00318 J	0.0406 U	0.00403 U	0.0104	0.00594 J	0.619	0.0189	0.00409 U
PYRENE	NC	NC	0.00756 J	0.0406 U	0.00403 U	0.0879	0.0262	2.97	0.0856	0.00245 J
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB536		X7-SB540		X7-SB541			
SAMPLE ID			X7-SS536-0001	X7-SS536-0102	X7-SS540-0001	X7-SS540-0102	X7-SS541-0001	X7-SS541-0102	X7-SB541-0204	X7-SB541-0406
SAMPLE DATE			20120906	20120906	20121003	20121003	20120906	20120906	20120906	20120906
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	1	0	1	0	1	2	4
BOTTOM DEPTH			1	2	1	2	1	2	4	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)										
1-METHYLNAPHTHALENE	NC	NC	0.00422 U	0.00392 U	0.00409 U	0.00402 U	0.00331 J	0.00373 U	0.00406 U	0.00371 U
2-METHYLNAPHTHALENE	NC	NC	0.00422 U	0.00392 U	0.00409 U	0.00402 U	0.00497 J	0.00373 U	0.00406 U	0.00371 U
ACENAPHTHENE	NC	NC	0.00422 U	0.00392 U	0.00409 U	0.00402 U	0.0174	0.00598 J	0.00406 U	0.00371 U
ANTHRACENE	NC	NC	0.00211 J	0.00392 U	0.00409 U	0.00402 U	0.0501	0.0198	0.00406 U	0.00371 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0097667	0.0046476	0.0067828	0.0106473	**2.18781 [H]**	**0.78732 [H]**	0.0211165	0.00371 U
BAP EQUIVALENT-POS	0.1	NC	0.0076567	0.002274	0.0067828	0.0086373	**2.18574 [H]**	**0.78546 [H]**	0.0190865	0.00371 U
BENZO(A)ANTHRACENE	NC	NC	0.00928	0.00392 U	0.00573 J	0.00844	1.36	0.434	0.0166	0.00371 U
BENZO(A)PYRENE	NC	NC	0.00548 J	0.00196 J	0.00327 J	0.00643 J	1.74	0.631	0.0146	0.00371 U
BENZO(B)FLUORANTHENE	NC	NC	0.00886	0.00314 J	0.00532 J	0.00924	2.22	0.732	0.0187	0.00371 U
BENZO(G,H,I)PERYLENE	NC	NC	0.00422 J	0.00392 U	0.00368 J	0.00442 J	0.834	0.39	0.00893	0.00371 U
BENZO(K)FLUORANTHENE	NC	NC	0.00211 J	0.00392 U	0.00287 J	0.00321 J	0.824	0.277	0.00893	0.00371 U
CHRYSENE	NC	NC	0.00464 J	0.00392 U	0.00205 J	0.00522 J	1.5	0.485	0.0142	0.00371 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00422 U	0.00392 U	0.00205 J	0.00402 U	0.00414 U	0.00373 U	0.00406 U	0.00371 U
FLUORANTHENE	NC	NC	0.0148	0.00314 J	0.00287 J	0.00563 J	1.77	0.542	0.0142	0.00371 U
FLUORENE	NC	NC	0.00422 U	0.00392 U	0.00409 U	0.00402 U	0.00828	0.00299 J	0.00406 U	0.00371 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00337 J	0.00392 U	0.00327 J	0.00402 J	0.78	0.346	0.00853	0.00371 U
NAPHTHALENE	NC	NC	0.00253 U	0.00235 U	0.00246 U	0.00241 U	0.00207 J	0.00224 U	0.00244 U	0.00223 U
PHENANTHRENE	NC	NC	0.00928	0.00392 U	0.00409 U	0.00402 U	0.281	0.0975	0.00406 U	0.00371 U
PYRENE	NC	NC	0.0114	0.00275 J	0.00327 J	0.00683 J	2.13	0.578	0.0122	0.00371 U
XRF (MG/KG)										
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

PAH AND BaP EQUIVALENT DELINEATION SOIL SAMPLING - EAST TRAP RANGE
UXO 7 RANGES
NSA CRANE INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB542		X7-SB546	
SAMPLE ID			**X7-SS542-0001**	**X7-SS542-0102**	**X7-SS546-0001**	**X7-SS546-0102**
SAMPLE DATE			**20120906**	**20120906**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SS**	**SS**	**SS**	**SS**
TOP DEPTH			**0**	**1**	**0**	**1**
BOTTOM DEPTH			**1**	**2**	**1**	**2**
METALS (MG/KG)						
ALUMINUM	NC	NC	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA
LEAD-CALC	400	192	NA	NA	NA	NA
MAGNESIUM	NC	NC	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE	NC	NC	0.00408 U	0.00384 U	0.00408 U	0.00402 U
2-METHYLNAPHTHALENE	NC	NC	0.00408 U	0.00384 U	0.00408 U	0.00402 U
ACENAPHTHENE	NC	NC	0.00408 U	0.00384 U	0.00408 U	0.00402 U
ANTHRACENE	NC	NC	0.00408 U	0.00384 U	0.00408 U	0.00402 U
BAP EQUIVALENT-HALFND	0.1	NC	0.0072027	0.0044761	0.0281869	0.00402 U
BAP EQUIVALENT-POS	0.1	NC	0.0051423	0.000231	0.0281869	0.00402 U
BENZO(A)ANTHRACENE	NC	NC	0.00612 J	0.00384 U	0.0184	0.00402 U
BENZO(A)PYRENE	NC	NC	0.00367 J	0.00384 U	0.02	0.00402 U
BENZO(B)FLUORANTHENE	NC	NC	0.00571 J	0.00231 J	0.0298	0.00402 U
BENZO(G,H,I)PERYLENE	NC	NC	0.00367 J	0.00384 U	0.0147	0.00402 U
BENZO(K)FLUORANTHENE	NC	NC	0.00408 U	0.00384 U	0.00898	0.00402 U
CHRYSENE	NC	NC	0.00326 J	0.00384 U	0.0171	0.00402 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.00408 U	0.00384 U	0.00204 J	0.00402 U
FLUORANTHENE	NC	NC	0.00449 J	0.00346 J	0.0167	0.00402 U
FLUORENE	NC	NC	0.00408 U	0.00384 U	0.00408 U	0.00402 U
INDENO(1,2,3-CD)PYRENE	NC	NC	0.00286 J	0.00384 U	0.0122	0.00402 U
NAPHTHALENE	NC	NC	0.00245 U	0.00231 U	0.00245 U	0.00241 U
PHENANTHRENE	NC	NC	0.00408 U	0.00231 J	0.00326 J	0.00402 U
PYRENE	NC	NC	0.00408 J	0.00269 J	0.0163	0.00402 U
XRF (MG/KG)						
LEAD	400	192	NA	NA	NA	NA

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB054	X7-SB055				X7-SB173
SAMPLE ID			X7-SS054-0002	X7-SB055-0203	X7-SB055-0304	X7-SS055-0002	X7-SS055-0002-D	X7-SS173-0002
SAMPLE DATE			20071004	20120908	20120908	20071006	20071004	20071007
SAMPLE CODE			NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SS
TOP DEPTH			0	2	3	0	0	0
BOTTOM DEPTH			2	3	4	2	2	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	11400	NA	10900
ANTIMONY	NC	NC	NA	NA	NA	37.9 J	NA	3.7 J
ARSENIC	NC	NC	NA	NA	NA	10.8	NA	11.5
BARIUM	NC	NC	NA	NA	NA	86.1	NA	91.4
BERYLLIUM	NC	NC	NA	NA	NA	0.715	NA	0.95
CADMIUM	NC	NC	NA	NA	NA	1.27	NA	1.26
CALCIUM	NC	NC	NA	NA	NA	1080	NA	1350
CHROMIUM	NC	NC	NA	NA	NA	18.6	NA	20.7
COBALT	NC	NC	NA	NA	NA	14.9	NA	12.9
COPPER	NC	NC	NA	NA	NA	197	NA	30.8
IRON	NC	NC	NA	NA	NA	26700	NA	44000
LEAD	400	192	NA	NA	NA	**1160**	NA	125
LEAD-CALC	400	192	27	3.5	10	**818**	NA	116
MAGNESIUM	NC	NC	NA	NA	NA	1040	NA	1160
MANGANESE	NC	NC	NA	NA	NA	1110	NA	1060
NICKEL	NC	NC	NA	NA	NA	18.6	NA	22.6
POTASSIUM	NC	NC	NA	NA	NA	579	NA	754
SELENIUM	NC	NC	NA	NA	NA	0.663	NA	0.631
SILVER	NC	NC	NA	NA	NA	0.161	NA	0.136
THALLIUM	NC	NC	NA	NA	NA	0.171	NA	0.162
VANADIUM	NC	NC	NA	NA	NA	32	NA	38.9
ZINC	NC	NC	NA	NA	NA	77.9	NA	61
XRF (MG/KG)								
LEAD	400	192	31	28	14.33	**741**	**1014.67**	121.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB174			X7-SB175	X7-SB176	X7-SB189
SAMPLE ID			X7-SB174-0203	X7-SB174-0304	X7-SS174-0002	X7-SS175-0002	X7-SS176-0002	X7-SS189-0002
SAMPLE DATE			20120908	20120908	20071007	20071007	20071007	20071009
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SS	SS
TOP DEPTH			2	3	0	0	0	0
BOTTOM DEPTH			3	4	2	2	2	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	10600	9300	NA	10000
ANTIMONY	NC	NC	NA	NA	12.3 J	3.3 J	NA	2.6 J
ARSENIC	NC	NC	NA	NA	8.8	15.2	NA	5.52
BARIUM	NC	NC	NA	NA	87.9	90.6	NA	82.8
BERYLLIUM	NC	NC	NA	NA	0.741	0.905	NA	0.86
CADMIUM	NC	NC	NA	NA	1.34	2.21	NA	0.815
CALCIUM	NC	NC	NA	NA	1420	1430	NA	1130
CHROMIUM	NC	NC	NA	NA	19.1	18.1	NA	16.7
COBALT	NC	NC	NA	NA	14.3	17.6	NA	13.3
COPPER	NC	NC	NA	NA	98.7	59.7	NA	46.3
IRON	NC	NC	NA	NA	20900	51900	NA	23200
LEAD	400	192	NA	NA	**430**	170	NA	151
LEAD-CALC	400	192	8.1	10	**469**	90	143	163
MAGNESIUM	NC	NC	NA	NA	1040	723	NA	1020
MANGANESE	NC	NC	NA	NA	912	1310	NA	665
NICKEL	NC	NC	NA	NA	19.1	25.9	NA	19.6
POTASSIUM	NC	NC	NA	NA	782	768	NA	660
SELENIUM	NC	NC	NA	NA	0.546	0.743	NA	0.383
SILVER	NC	NC	NA	NA	0.165	0.141	NA	0.126
THALLIUM	NC	NC	NA	NA	0.158	0.141	NA	0.128 U
VANADIUM	NC	NC	NA	NA	27.2	31	NA	25.6
ZINC	NC	NC	NA	NA	64	118	NA	61.8
XRF (MG/KG)								
LEAD	400	192	32	17.33	**442.33**	96	147.33	165.67

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB190			X7-SB274			
SAMPLE ID			X7-SB190-0203	X7-SB190-0304	X7-SS190-0002	X7-SB274-0203	X7-SB274-0304	X7-SS274-0001	X7-SS274-0102
SAMPLE DATE			20120908	20120908	20071009	20120908	20120908	20111108	20111108
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SB	SB	SS	SS
TOP DEPTH			2	3	0	2	3	0	1
BOTTOM DEPTH			3	4	2	3	4	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	**347**	28.417	11.933	**670**	**397**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	10	7	**334.67**	49.67	35.33	**734.67**	**433.33**

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB275				X7-SB276	
SAMPLE ID			**X7-SB275-0203**	**X7-SB275-0304**	**X7-SS275-0001**	**X7-SS275-0102**	**X7-SS276-0001**	**X7-SS276-0102**
SAMPLE DATE			**20120908**	**20120908**	**20111108**	**20111108**	**20111108**	**20111108**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SB**	**SS**	**SS**	**SS**	**SS**
TOP DEPTH			**2**	**3**	**0**	**1**	**0**	**1**
BOTTOM DEPTH			**3**	**4**	**1**	**2**	**1**	**2**
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	46.433	1.5833	**413**	**616**	128	90.9
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
XRF (MG/KG)								
LEAD	400	192	65.33	26.33	**451**	**675**	135	94.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB277				X7-SB278			
SAMPLE ID			**X7-SB277-0203**	**X7-SB277-0304**	**X7-SS277-0001**	**X7-SS277-0102**	**X7-SB278-0203**	**X7-SB278-0304**	**X7-SS278-0001**	**X7-SS278-0102**
SAMPLE DATE			**20120908**	**20120908**	**20111108**	**20111108**	**20120908**	**20120908**	**20111108**	**20111108**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**
TOP DEPTH			**2**	**3**	**0**	**1**	**2**	**3**	**0**	**1**
BOTTOM DEPTH			**3**	**4**	**1**	**2**	**3**	**4**	**1**	**2**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	**382**	**315**	10	10	**464**	**315**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	20.67	10	**416.67**	**342.33**	17.33	12.33	**507**	**342**

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB279			X7-SB280		X7-SB281	
SAMPLE ID			**X7-SB279-0203**	**X7-SS279-0001**	**X7-SS279-0102**	**X7-SS280-0001**	**X7-SS280-0102**	**X7-SS281-0001**	**X7-SS281-0102**
SAMPLE DATE			**20111112**	**20111108**	**20111108**	**20111108**	**20111108**	**20111108**	**20111108**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SS**	**SS**	**SS**	**SS**
TOP DEPTH			**2**	**0**	**1**	**0**	**1**	**0**	**1**
BOTTOM DEPTH			**3**	**1**	**2**	**1**	**2**	**1**	**2**
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	20.1 J	NA	NA	NA	94.3 J	NA	NA
LEAD-CALC	400	192	23.4	**408**	**376**	**603**	98.5	**611**	96.6
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	19.67	**445.33**	**409.67**	**661**	102.67	**669.33**	100.67

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB282			X7-SB283				
SAMPLE ID			**X7-SB282-0203**	**X7-SS282-0001**	**X7-SS282-0102**	**X7-SB283-0203**	**X7-SB283-0304**	**X7-SS283-0001**	**X7-SS283-0001-D**	**X7-SS283-0102**
SAMPLE DATE			**20111112**	**20111108**	**20111108**	**20120908**	**20120908**	**20111108**	**20111108**	**20111108**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**ORIG**	**DUP**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SS**
TOP DEPTH			**2**	**0**	**1**	**2**	**3**	**0**	**0**	**1**
BOTTOM DEPTH			**3**	**1**	**2**	**3**	**4**	**1**	**1**	**2**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	88.8	**559**	**303**	39.917	10	**534**	**555**	**522**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	92	**611.67**	**329**	59.67	10	**584**	**608**	**571.67**

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB284		X7-SB285			X7-SB286	X7-SB287	X7-SB288
SAMPLE ID			X7-SS284-0001	X7-SS284-0102	X7-SB285-0203	X7-SB285-0304	X7-SS285-0001	X7-SS286-0001	X7-SS287-0001	X7-SS288-0001
SAMPLE DATE			20111108	20111108	20120908	20120908	20111108	20111108	20111108	20111108
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SS	SS
TOP DEPTH			0	1	2	3	0	0	0	0
BOTTOM DEPTH			1	2	3	4	1	1	1	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	44.8 J	63.8 J
LEAD-CALC	400	192	**503**	87.3	10	10	**392**	189	65.6	79.5
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**550.33**	90.33	3	18.67	**427.67**	**202.67**	66.33	81.67

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB289	X7-SB290		X7-SB321		X7-SB323	
SAMPLE ID			X7-SS289-0001	X7-SS290-0001	X7-SS290-0102	X7-SS321-0001	X7-SS321-0102	X7-SS323-0001	X7-SS323-0102
SAMPLE DATE			20111108	20111108	20111108	20111112	20111112	20111112	20111112
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	0	1	0	1	0	1
BOTTOM DEPTH			1	1	2	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	156 J	NA	**448 J**	NA
LEAD-CALC	400	192	78	143	29	162	40	**398**	50.2
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	80	151.67	25.67	173	38	**433.67**	49.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB325		X7-SB327		X7-SB329	X7-SB331		
SAMPLE ID			X7-SS325-0001	X7-SS325-0102	X7-SS327-0001	X7-SS327-0001-D	X7-SS329-0001	X7-SS331-0001	X7-SS331-0001-D	X7-SS331-0102
SAMPLE DATE			20111112	20111111	20111112	20111112	20111112	20111112	20111112	20111112
SAMPLE CODE			NORMAL	NORMAL	ORIG	DUP	NORMAL	ORIG	DUP	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	0	0	0	0	1
BOTTOM DEPTH			1	2	1	1	1	1	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	66.4 J	60.7	46.3 J	138 J	NA	NA
LEAD-CALC	400	192	**419**	37.3	54.8	65.3	65.6	130	178	39.4
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**457.33**	35	54.33	66	66.33	137.67	190.33	37.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB333		X7-SB336		X7-SB337
SAMPLE ID			**X7-SS333-0001**	**X7-SS333-0102**	**X7-SS336-0001**	**X7-SS336-0102**	**X7-SS337-0001**
SAMPLE DATE			**20111112**	**20111112**	**20111112**	**20111112**	**20111112**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SS**	**SS**	**SS**	**SS**	**SS**
TOP DEPTH			**0**	**1**	**0**	**1**	**0**
BOTTOM DEPTH			**1**	**2**	**1**	**2**	**1**
METALS (MG/KG)							
ALUMINUM	NC	NC	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA
LEAD	400	192	**198 J**	NA	**236 J**	NA	63.1 J
LEAD-CALC	400	192	172	39.4	**252**	71	64.4
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA
XRF (MG/KG)							
LEAD	400	192	184.33	37.33	**272.67**	72.33	65

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB342			X7-SB344		X7-SB423	
SAMPLE ID			X7-SB342-0203	X7-SB342-0304	X7-SS342-0102	X7-SS344-0001	X7-SS344-0102	X7-SS423-0001	X7-SS423-0102
SAMPLE DATE			20120908	20120908	20111112	20111112	20111112	20111114	20111114
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SS	SS	SS
TOP DEPTH			2	3	1	0	1	0	1
BOTTOM DEPTH			3	4	2	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	**263 J**	111 J	NA	**340 J**	NA
LEAD-CALC	400	192	10	10	**262**	136	22.8	**276**	25.8
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	8.33	14.33	**284**	143.67	19	**298.67**	22.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB424		X7-SB425		X7-SB426	X7-SB427	X7-SB428	X7-SB429
SAMPLE ID			X7-SS424-0001	X7-SS424-0102	X7-SS425-0001	X7-SS425-0102	X7-SB426-0304	X7-SB427-0304	X7-SB428-0304	X7-SS429-0001
SAMPLE DATE			20111114	20111114	20111114	20111114	20111114	20111114	20111114	20111114
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SB	SB	SS
TOP DEPTH			0	1	0	1	3	3	3	0
BOTTOM DEPTH			1	2	1	2	4	4	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**193 J**	91 J	160 J	NA	NA	22.7 J	NA	125 J
LEAD-CALC	400	192	**198**	103	163	16.5	16.2	21.6	26.7	102
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**212.33**	108	174.33	12	11.67	17.67	23.33	106.67

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB567		X7-SB568			
SAMPLE ID			X7-SS567-0001	X7-SS567-0102	X7-SB568-0203	X7-SB568-0304	X7-SS568-0001	X7-SS568-0102
SAMPLE DATE			20120909	20120909	20120909	20120909	20120909	20120909
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS
TOP DEPTH			0	1	2	3	0	1
BOTTOM DEPTH			1	2	3	4	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	88.2
LEAD-CALC	400	192	99.333	12.7	10	10	**256.12**	77.483
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
XRF (MG/KG)								
LEAD	400	192	111.33	36	19.67	18	**247.67**	92.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB569				X7-SB570			
SAMPLE ID			X7-SB569-0203	X7-SB569-0304	X7-SS569-0001	X7-SS569-0102	X7-SB570-0203	X7-SB570-0304	X7-SS570-0001	X7-SS570-0102
SAMPLE DATE			20120909	20120909	20120909	20120909	20120909	20120909	20120909	20120909
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SB	SB	SS	SS
TOP DEPTH			2	3	0	1	2	3	0	1
BOTTOM DEPTH			3	4	1	2	3	4	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	93.1	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	**660.92**	97.033	10	10	**262.25**	11.933
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	18.67	12.33	**599.67**	109.33	19	10.67	**253**	35.33

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB571		X7-SB572		X7-SB573	
SAMPLE ID			X7-SS571-0001	X7-SS571-0102	X7-SS572-0001	X7-SS572-0102	X7-SS573-0001	X7-SS573-0102
SAMPLE DATE			20120909	20120909	20120909	20120909	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	82.083	10	17.3	38	47.967	46.817
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
XRF (MG/KG)								
LEAD	400	192	96.33	14	40	58	66.67	65.67

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB574		X7-SB575		X7-SB576		X7-SB577	
SAMPLE ID			X7-SS574-0001	X7-SS574-0102	X7-SS575-0001	X7-SS575-0102	X7-SS576-0001	X7-SS576-0102	X7-SS577-0001	X7-SS577-0102
SAMPLE DATE			20120908	20120908	20120909	20120909	20120909	20120909	20120909	20120909
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	95.3	NA
LEAD-CALC	400	192	59.467	16.917	90.517	10	94.35	4.65	116.58	1.9667
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	76.67	39.67	103.67	20	107	29	126.33	26.67

Concentration exceeds screening value

TABLE 3-3

LEAD DELINEATION SOIL SAMPLING - NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB607		X7-SB608		X7-SB609	
SAMPLE ID			X7-SS607-0001	X7-SS607-0102	X7-SS608-0001	X7-SS608-0102	X7-SS609-0001	X7-SS609-0102
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2
METALS (MG/KG)								
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	166	NA	NA	NA
LEAD-CALC	400	192	11.933	5	155.68	14.233	10.783	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA
XRF (MG/KG)								
LEAD	400	192	35.33	25	160.33	37.33	34.33	17

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB043	X7-SB044			X7-SB045			
SAMPLE ID			X7-SS043-0002	X7-SS044-0002	X7-SS044-0102	X7-SB044-0203	X7-SS045-0002	X7-SS045-0002-D	X7-SB045-0203	X7-SB045-0304
SAMPLE DATE			20071003	20071003	20120907	20120907	20071003	20071003	20120907	20120907
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SB	SS	SS	SB	SB
TOP DEPTH			0	0	1	2	0	0	2	3
BOTTOM DEPTH			2	2	2	3	2	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	14900	NA	NA	13400	12800	NA	NA
ANTIMONY	NC	NC	NA	4.5 J	NA	NA	3.9 J	9.4 J	NA	NA
ARSENIC	NC	NC	NA	6.34	NA	NA	7.72	10.3	NA	NA
BARIUM	NC	NC	NA	61	NA	NA	69.4	62.4	NA	NA
BERYLLIUM	NC	NC	NA	0.553	NA	NA	0.601	1.18	NA	NA
CADMIUM	NC	NC	NA	0.462	NA	NA	0.387	0.949	NA	NA
CALCIUM	NC	NC	NA	735	NA	NA	917	788	NA	NA
CHROMIUM	NC	NC	NA	24.1	NA	NA	27.4	39.7	NA	NA
COBALT	NC	NC	NA	12.1	NA	NA	13.7	11.4	NA	NA
COPPER	NC	NC	NA	96.1	NA	NA	128	136	NA	NA
IRON	NC	NC	NA	32100	NA	NA	38600	39900	NA	NA
LEAD	400	192	NA	**199**	NA	NA	**286**	**403**	NA	NA
LEAD-CALC	400	192	56	**203**	**263.4**	10.4	**607**	NA	**261.87**	**397.18**
MAGNESIUM	NC	NC	NA	1680	NA	NA	1610	1180	NA	NA
MANGANESE	NC	NC	NA	709	NA	NA	919	547	NA	NA
NICKEL	NC	NC	NA	11.7	NA	NA	14	20.1	NA	NA
POTASSIUM	NC	NC	NA	852	NA	NA	788	771	NA	NA
SELENIUM	NC	NC	NA	0.249	NA	NA	0.273	0.389	NA	NA
SILVER	NC	NC	NA	0.064	NA	NA	0.0695	0.121	NA	NA
SODIUM	NC	NC	NA	59.2 U	NA	NA	16.1 U	32.8 U	NA	NA
THALLIUM	NC	NC	NA	0.17	NA	NA	0.181	0.165	NA	NA
VANADIUM	NC	NC	NA	32.5	NA	NA	34.7	45.7	NA	NA
ZINC	NC	NC	NA	50.3	NA	NA	52.3	63.1	NA	NA
XRF (MG/KG)										
LEAD	400	192	62	**204**	**254**	34	**562**	NA	**252.67**	**370.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk			X7-SB046					X7-SB047
SAMPLE ID			X7-SB045-0405	X7-SB045-0506	X7-SS046-0002	X7-SB046-0203	X7-SB046-0304	X7-SB046-0405	X7-SB046-0506	X7-SS047-0002
SAMPLE DATE			20120908	20120908	20071003	20120908	20120908	20120910	20120910	20071003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SB	SB	SB	SB	SS
TOP DEPTH			4	5	0	2	3	4	5	0
BOTTOM DEPTH			5	6	2	3	4	5	6	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	16300	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	24.5 J	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	7.38	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	85.3	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	0.776	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	0.594	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	3670	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	23.4	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	12	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	283	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	22900	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	**1100**	NA	NA	NA	NA	NA
LEAD-CALC	400	192	76.333	56.017	**771**	**768.25**	**440.5**	**568.15**	42.6	63
MAGNESIUM	NC	NC	NA	NA	2760	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	1060	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	15.7	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	1100	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	0.368	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	0.115	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	34.1 U	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	0.223	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	35.9	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	79.4	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	91.33	73.67	**701**	**693**	**408**	**519**	62	69.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB048	X7-SB057	X7-SB177	X7-SB178	X7-SB179	X7-SB180		X7-SB181
SAMPLE ID			X7-SS048-0002	X7-SS057-0002	X7-SS177-0002	X7-SS178-0002	X7-SS179-0002	X7-SS180-0002	X7-SS181-0002	X7-SB181-0203
SAMPLE DATE			20071003	20071004	20071007	20071007	20071007	20071007	20071007	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SB
TOP DEPTH			0	0	0	0	0	0	0	2
BOTTOM DEPTH			2	2	2	2	2	2	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	15700	NA	15200	15500	11500	16200	14800	NA
ANTIMONY	NC	NC	5.6 J	NA	2.6 J	0.98 J	2 J	2.1 J	5.3 J	NA
ARSENIC	NC	NC	7.5	NA	10.8	8.86	11	15	8.77	NA
BARIUM	NC	NC	80.9	NA	59.9	82.8	56.2	81.8	118	NA
BERYLLIUM	NC	NC	0.612	NA	0.78	0.594	0.769	0.827 J	1.2	NA
CADMIUM	NC	NC	1.05	NA	0.993	0.969	0.439	1.32	0.572	NA
CALCIUM	NC	NC	1300	NA	1330	1360	1110	1020	1080	NA
CHROMIUM	NC	NC	23.2	NA	57	30.1	39.2	32.2	45.9	NA
COBALT	NC	NC	12.5	NA	15	20.8	14.4	19.2	11.2	NA
COPPER	NC	NC	93.5	NA	48.1	16.9	29.2	51.9	63.8	NA
IRON	NC	NC	26600	NA	45000	30600	38400	31500	35800	NA
LEAD	400	192	190	NA	115	40.9	83.6	89	**212**	NA
LEAD-CALC	400	192	142	NA	109	25	98	79	**202**	59.083
MAGNESIUM	NC	NC	1720	NA	1580	1420	1190	2280	1810	NA
MANGANESE	NC	NC	461	NA	502	821	637	544	571	NA
NICKEL	NC	NC	13.7	NA	17.3	16.3	13.6	27	32.4	NA
POTASSIUM	NC	NC	894	NA	882	884	592	1210	715	NA
SELENIUM	NC	NC	0.365	NA	0.365	0.43	0.322	0.604	0.279	NA
SILVER	NC	NC	0.1	NA	0.0996	0.0894	0.0593	0.186	0.062	NA
SODIUM	NC	NC	44.4 U	NA	50.1 U	43.9 U	23.8 U	138	19.1 U	NA
THALLIUM	NC	NC	0.197	NA	0.175	0.18	0.147	0.39	0.133	NA
VANADIUM	NC	NC	36.9	NA	44.1	39.8	35.9	78	73.2	NA
ZINC	NC	NC	54.1	NA	53.1	40.7	42.2	74.8	96.5	NA
XRF (MG/KG)										
LEAD	400	192	146.33	0 U	114.67	29.67	104	84.67	**202.33**	76.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB182	X7-SB291				
SAMPLE ID			X7-SB181-0304	X7-SS182-0002	X7-SS291-0001	X7-SS291-0102	X7-SB291-0203	X7-SB291-0304	X7-SB291-0405
SAMPLE DATE			20120908	20071007	20111108	20111108	20111111	20120907	20120907
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SB	SB	SB
TOP DEPTH			3	0	0	1	2	3	4
BOTTOM DEPTH			4	2	1	2	3	4	5
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	11700	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	2.8 J	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	15.1	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	61.5	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	0.703 J	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	0.823	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	1040	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	35.2	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	22.8	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	44.2	NA	NA	NA	NA	NA
IRON	NC	NC	NA	45700	NA	NA	NA	NA	NA
LEAD	400	192	NA	95.1	NA	NA	**203 J**	NA	NA
LEAD-CALC	400	192	4.65	103	**1186**	**365**	**280**	**366.9**	18.067
MAGNESIUM	NC	NC	NA	1140	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	641	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	22.1	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	810	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	0.373	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	0.0985	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	40.9	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	0.224	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	57	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	47	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	29	109	**1306**	**397**	**303.67**	**344**	40.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB292		X7-SB293	X7-SB294				X7-SB295
SAMPLE ID			X7-SS292-0001	X7-SS292-0102	X7-SS293-0001	X7-SS294-0001	X7-SS294-0102	X7-SS295-0001	X7-SS295-0102	X7-SB295-0203
SAMPLE DATE			20111108	20111108	20111108	20111108	20111108	20111108	20111108	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SB
TOP DEPTH			0	1	0	0	1	0	1	2
BOTTOM DEPTH			1	2	1	1	2	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**226**	90.6	71.6	148	61.7	**339**	**386**	**477**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**244**	94	73	157	62	**368.67**	**420.33**	**521.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk			X7-SB296					
SAMPLE ID			X7-SB295-0304	X7-SB295-0405	X7-SS296-0001	X7-SS296-0102	X7-SB296-0203	X7-SB296-0304	X7-SB296-0405	X7-SB296-0506
SAMPLE DATE			20120908	20120908	20111108	20111108	20111111	20120908	20120908	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SB	SB	SB	SB
TOP DEPTH			3	4	0	1	2	3	4	5
BOTTOM DEPTH			4	5	1	2	3	4	5	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**246 J**	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**238.87**	10	**818**	**304**	**280**	**551.28**	16.917	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**232.67**	13.67	**899**	**330**	**303.33**	**504.33**	39.67	16.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB297						
SAMPLE ID			**X7-SB296-0607**	**X7-SS297-0001**	**X7-SS297-0102**	**X7-SB297-0203**	**X7-SB297-0304**	**X7-SB297-0405**	**X7-SS298-0001**	**X7-SS298-0102**
SAMPLE DATE			**20120910**	**20111107**	**20111107**	**20111111**	**20120908**	**20120908**	**20111107**	**20111107**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SB**	**SS**	**SS**
TOP DEPTH			**6**	**0**	**1**	**2**	**3**	**4**	**0**	**1**
BOTTOM DEPTH			**7**	**1**	**2**	**3**	**4**	**5**	**1**	**2**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	**646**	**366**	**232**	16.15	10	**356**	**414**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	12.33	**708.33**	**398.33**	**250**	39	18.33	**388**	**452**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB298				X7-SB299			
SAMPLE ID			X7-SB298-0203	X7-SB298-0304	X7-SB298-0405	X7-SB298-0506	X7-SS299-0001	X7-SS299-0102	X7-SB299-0203	X7-SB299-0203-D
SAMPLE DATE			20120908	20120908	20120909	20120909	20111107	20111107	20111111	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SS	SS	SB	SB
TOP DEPTH			2	3	4	5	0	1	2	2
BOTTOM DEPTH			3	4	5	6	1	2	3	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	142 J	NA	NA	NA	NA	NA
LEAD-CALC	400	192	180.6	**806.58**	120.03	24.2	**338**	**478**	122	131
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	182	**726.33**	129.33	46	**367.33**	**522.33**	128.67	139

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB300							
SAMPLE ID			**X7-SS300-0001**	**X7-SS300-0102**	**X7-SB300-0203**	**X7-SB300-0304**	**X7-SB300-0405**	**X7-SB300-0506**	**X7-SS301-0001**	**X7-SS301-0102**
SAMPLE DATE			**20111107**	**20111107**	**20120908**	**20120908**	**20120910**	**20120910**	**20111107**	**20111107**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SS**	**SS**	**SB**	**SB**	**SB**	**SB**	**SS**	**SS**
TOP DEPTH			**0**	**1**	**2**	**3**	**4**	**5**	**0**	**1**
BOTTOM DEPTH			**1**	**2**	**3**	**4**	**5**	**6**	**1**	**2**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**230**	**228**	85.533	190.18	**630.63**	10	164	**357**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**248**	**245.67**	99.33	190.33	**573.33**	17	175.67	**388.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB301			X7-SB302		X7-SB303		
SAMPLE ID			X7-SB301-0203	X7-SB301-0304	X7-SB301-0405	X7-SS302-0001	X7-SS302-0102	X7-SS303-0001	X7-SS303-0102	X7-SB303-0304
SAMPLE DATE			20111111	20120908	20120908	20111107	20111107	20111107	20111107	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SS	SS	SS	SS	SB
TOP DEPTH			2	3	4	0	1	0	1	3
BOTTOM DEPTH			3	4	5	1	2	1	2	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**517**	**299.43**	0.43333	159	76.2	**261**	**532**	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**565.67**	**285.33**	25.33	169.67	78	**282.67**	**582.67**	12.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB304	X7-SB305		X7-SB306		
SAMPLE ID			X7-SB303-0405	X7-SS304-0001	X7-SS305-0001	X7-SS305-0102	X7-SS306-0001	X7-SS306-0102	X7-SB306-0203
SAMPLE DATE			20120908	20111107	20111108	20111108	20111108	20111108	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SS	SS	SB
TOP DEPTH			4	0	0	1	0	1	2
BOTTOM DEPTH			5	1	1	2	1	2	3
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	19.983	87.9	**311**	68	**484**	160	82.5
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	42.33	91	**338.33**	69	**529.67**	170.67	85

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB307		X7-SB308			X7-SB345	
SAMPLE ID			X7-SS307-0001	X7-SS307-0102	X7-SS308-0001	X7-SS308-0102	X7-SB308-0203	X7-SS345-0001	X7-SS345-0102
SAMPLE DATE			20111108	20111108	20111107	20111107	20111111	20111111	20111108
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SS	SS
TOP DEPTH			0	1	0	1	2	0	1
BOTTOM DEPTH			1	2	1	2	3	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	78.4 J
LEAD-CALC	400	192	**568**	47.5	**469**	**235**	23.7	**518**	92.7
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**622**	46.33	**512.33**	**253.33**	20	**567**	96.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB347		X7-SB349					
SAMPLE ID			X7-SS347-0001	X7-SS347-0102	X7-SS349-0001	X7-SS349-0102	X7-SB349-0203	X7-SB349-0304	X7-SS351-0001	X7-SS351-0102
SAMPLE DATE			20111111	20111111	20111111	20111111	20120908	20120908	20111111	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SB	SS	SS
TOP DEPTH			0	1	0	1	2	3	0	1
BOTTOM DEPTH			1	2	1	2	3	4	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	91.5 J	NA	NA	NA	NA	191 J	**290**
LEAD-CALC	400	192	**541**	79.2	166	**601**	40.3	9.25	**208**	**259**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**592**	81.33	177	**658.67**	60	33	**223.33**	**280.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB351						X7-SB353
SAMPLE ID			X7-SB351-0203	X7-SB351-0304	X7-SB351-0405	X7-SB351-0506	X7-SB351-0607	X7-SB351-0708	X7-SS353-0001
SAMPLE DATE			20120907	20120907	20120910	20120910	20120911	20120911	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SB	SB	SS
TOP DEPTH			2	3	4	5	6	7	0
BOTTOM DEPTH			3	4	5	6	7	8	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	114 J	NA	128 J	NA	NA	157
LEAD-CALC	400	192	**541.7**	**194.78**	10	163.35	10	10	113
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**496**	**194.33**	9.33	167	8.67	5.67	118.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB355		X7-SB357					
SAMPLE ID			X7-SS355-0001	X7-SS355-0102	X7-SS357-0001	X7-SS357-0102	X7-SS358-0001	X7-SS358-0102	X7-SB358-0203	X7-SB358-0304
SAMPLE DATE			20111111	20111111	20111111	20111111	20111111	20111111	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	1	0	1	0	1	2	3
BOTTOM DEPTH			1	2	1	2	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	136	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	122	110	**408**	69.2	**370**	**455**	**343.13**	158.75
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	128.33	115	**444.67**	70.33	**403**	**497**	**323.33**	163

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB358					X7-SB360		
SAMPLE ID			X7-SB358-0405	X7-SB358-0506	X7-SB358-0506-D	X7-SB358-0607	X7-SB358-0708	X7-SS360-0001	X7-SS360-0102	X7-SB360-0203
SAMPLE DATE			20120910	20120910	20120910	20120911	20120911	20111111	20111111	20120908
SAMPLE CODE			NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			4	5	5	6	7	0	1	2
BOTTOM DEPTH			5	6	6	7	8	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	**283 J**	**231**	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**284.48**	**271.83**	NA	10	10	**232**	**302**	**2044.8**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**272.33**	**261.33**	NA	10	8.67	**250.67**	**327.33**	**1803**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB361				X7-SB363		
SAMPLE ID			**X7-SB360-0304**	**X7-SS361-0001**	**X7-SS361-0102**	**X7-SB361-0203**	**X7-SB361-0304**	**X7-SS363-0001**	**X7-SS363-0102**	**X7-SS365-0001**
SAMPLE DATE			**20120908**	**20111111**	**20111111**	**20120908**	**20120908**	**20111111**	**20111111**	**20111111**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SS**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**0**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**1**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	180	NA	NA
LEAD-CALC	400	192	88.217	**299**	**291**	10	105.47	177	10.2	**412**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	101.67	**325**	**316**	20.33	116.67	190	5	**450**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB365			X7-SB368				
SAMPLE ID			X7-SS365-0102	X7-SB365-0203	X7-SB365-0304	X7-SS368-0001	X7-SS368-0102	X7-SB368-0203	X7-SB368-0304	X7-SS369-0001
SAMPLE DATE	Human	Ecological	20111111	20120908	20120908	20111111	20111111	20120909	20120909	20111111
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB	SS
TOP DEPTH			1	2	3	0	1	2	3	0
BOTTOM DEPTH			2	3	4	1	2	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	87.5 J	NA	NA
LEAD-CALC	400	192	**403**	10	10	187	**660**	123.87	10	**869**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**440**	12	13.67	**200.67**	**723.67**	132.67	17	**955**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB369					X7-SB391		
SAMPLE ID			X7-SS369-0102	X7-SB369-0203	X7-SB369-0304	X7-SB369-0405	X7-SB369-0506	X7-SS391-0001	X7-SS391-0102	X7-SB391-0203
SAMPLE DATE			20111111	20120908	20120908	20120908	20120908	20111108	20111108	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			1	2	3	4	5	0	1	2
BOTTOM DEPTH			2	3	4	5	6	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**245**	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**327**	**555.88**	**675.48**	19.983	14.617	152	**566**	52.3
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**356**	**508.33**	**612.33**	42.33	37.67	161.67	**619.67**	51.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB392	X7-SB393				X7-SB394		
SAMPLE ID			X7-SS392-0001	X7-SS393-0001	X7-SS393-0102	X7-SS393-0102-D	X7-SB393-0203	X7-SS394-0001	X7-SS394-0102	X7-SB394-0203
SAMPLE DATE			20111114	20111108	20111108	20111108	20111111	20111108	20111108	20111111
SAMPLE CODE			NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SS	SS	SB
TOP DEPTH			0	0	1	1	2	0	1	2
BOTTOM DEPTH			1	1	2	2	3	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	107 J	NA	**226 J**	**436 J**	NA	NA	NA	NA
LEAD-CALC	400	192	111	147	**261**	NA	186	142	**285**	35.5
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	116.67	156.67	**283**	NA	**199.67**	151	**309**	33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB395							
SAMPLE ID			X7-SS395-0001	X7-SS395-0102	X7-SB395-0203	X7-SB395-0304	X7-SB395-0405	X7-SB395-0506	X7-SB395-0607	X7-SS396-0001
SAMPLE DATE			20111108	20111108	20111111	20120908	20120908	20120910	20120910	20111108
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SB	SB	SB	SS
TOP DEPTH			0	1	2	3	4	5	6	0
BOTTOM DEPTH			1	2	3	4	5	6	7	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	160 J	NA	NA	NA
LEAD-CALC	400	192	**246**	**535**	**321**	**537.87**	**253.82**	10	10	145
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**266**	**585.67**	**348.33**	**492.67**	**245.67**	8	10	154.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB396			X7-SB398				
SAMPLE ID			X7-SS396-0001-D	X7-SS396-0102	X7-SB396-0203	X7-SS398-0001	X7-SS398-0102	X7-SB398-0203	X7-SB398-0304	X7-SB398-0405
SAMPLE DATE	Human	Ecological	20111108	20111108	20111111	20111111	20111111	20120907	20120907	20120908
SAMPLE CODE	Health	Risk	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SS	SS	SB	SB	SB
TOP DEPTH			0	1	2	0	1	2	3	4
BOTTOM DEPTH			1	2	3	1	2	3	4	5
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	138	**384**	**303**	**293**	**458**	**555.88**	**294.07**	69.433
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	146	**418**	**329.33**	**317.33**	**500.67**	**508.33**	**280.67**	85.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB400	X7-SB401				X7-SB402	
SAMPLE ID			X7-SB398-0506	X7-SS400-0001	X7-SS401-0001	X7-SS401-0102	X7-SB401-0203	X7-SB401-0304	X7-SS402-0001	X7-SS404-0001
SAMPLE DATE			20120908	20111111	20111111	20111111	20120907	20120907	20111111	20111111
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SB	SB	SS	SS
TOP DEPTH			5	0	0	1	2	3	0	0
BOTTOM DEPTH			6	1	1	2	3	4	1	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	97.4	NA	NA	NA	89.7	NA
LEAD-CALC	400	192	3.5	104	161	**337**	10	10	111	**292**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	28	108.67	171.67	**366.67**	19.67	8.67	116.67	**317**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB404		X7-SB406		X7-SB407	X7-SB408		
SAMPLE ID			X7-SS404-0102	X7-SS404-0102-D	X7-SS406-0001	X7-SS406-0001-D	X7-SS407-0001	X7-SS408-0001	X7-SS408-0102	X7-SB409-0304
SAMPLE DATE			20111111	20111111	20111111	20111111	20111114	20111114	20111114	20111114
SAMPLE CODE			ORIG	DUP	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SB
TOP DEPTH			1	1	0	0	0	0	1	3
BOTTOM DEPTH			2	2	1	1	1	1	2	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	73.7	**246**	NA	NA
LEAD-CALC	400	192	83.4	102	80.4	73.1	77	**286**	31.9	**1087**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	86	106.67	82.67	74.67	78.67	**310.67**	29	**1196.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB409		X7-SB410	X7-SB411	X7-SB412		X7-SB413
SAMPLE ID			X7-SB409-0405	X7-SB409-0506	X7-SS410-0001	X7-SB411-0304	X7-SS412-0001	X7-SS412-0102	X7-SB413-0304
SAMPLE DATE			20120907	20120907	20111114	20111114	20111114	20111114	20111114
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SB	SS	SS	SB
TOP DEPTH			4	5	0	3	0	1	3
BOTTOM DEPTH			5	6	1	4	1	2	4
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	12.3	NA	189	NA	NA
LEAD-CALC	400	192	**406**	10	10.2	52	174	31.9	**869**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**378**	22.33	5	51.33	186.67	29	**955.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB414		X7-SB415		X7-SB416	X7-SB417		
SAMPLE ID			X7-SS414-0001	X7-SS414-0102	X7-SS415-0001	X7-SS415-0102	X7-SS416-0001	X7-SB417-0304	X7-SB417-0405	X7-SB417-0506
SAMPLE DATE			20111114	20111114	20111114	20111114	20111114	20111114	20111114	20111114
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SB	SB	SB
TOP DEPTH			0	1	0	1	0	3	4	5
BOTTOM DEPTH			1	2	1	2	1	4	5	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**199**	NA	105	NA	78.2	NA	NA	NA
LEAD-CALC	400	192	175	104	170	36.4	80	**194**	159	**715**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	187.67	108.33	181.67	34	82.67	**208**	170	118.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB418	X7-SB420			X7-SB421		
SAMPLE ID			X7-SB417-0607	X7-SS418-0001	X7-SS420-0001	X7-SS420-0102	X7-SS420-0203	X7-SS421-0001	X7-SS421-0102	X7-SS422-0001
SAMPLE DATE			20120908	20111114	20111114	20111114	20111114	20111114	20111114	20111114
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			6	0	0	1	2	0	1	0
BOTTOM DEPTH			7	1	1	2	3	1	2	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	48.4	119	**445**	76.5	**681**	19.8	**399**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	11.33	47.33	125	**485.67**	78.33	**747.33**	15.67	**434.67**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB422				X7-SB551			
SAMPLE ID			X7-SS422-0102	X7-SS422-0102-D	X7-SB422-0203	X7-SS422-0203	X7-SS551-0001	X7-SS551-0102	X7-SB551-0203	X7-SB551-0304
SAMPLE DATE			20111114	20111114	20111114	20111114	20120907	20120907	20120907	20120907
SAMPLE CODE			ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SS	SS	SS	SB	SB
TOP DEPTH			1	1	2	2	0	1	2	3
BOTTOM DEPTH			2	2	3	3	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**343**	NA	44.5	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**333**	**343**	NA	49	**432.83**	172.17	169.48	**248.83**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**362**	**373.33**	NA	48	**401.33**	174.67	172.33	**241.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB552							
SAMPLE ID			**X7-SB551-0405**	**X7-SB551-0506**	**X7-SS552-0001**	**X7-SS552-0102**	**X7-SB552-0203**	**X7-SB552-0304**	**X7-SB552-0405**	**X7-SB552-0506**
SAMPLE DATE			**20120910**	**20120910**	**20120907**	**20120907**	**20120907**	**20120907**	**20120910**	**20120910**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SB**	**SS**	**SS**	**SB**	**SB**	**SB**	**SB**
TOP DEPTH			**4**	**5**	**0**	**1**	**2**	**3**	**4**	**5**
BOTTOM DEPTH			**5**	**6**	**1**	**2**	**3**	**4**	**5**	**6**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**452.38**	10	22.283	**252.67**	123.87	**262.63**	**1074.5**	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**418.33**	7	44.33	**244.67**	132.67	**253.33**	**959.33**	5.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB553				X7-SB554			
SAMPLE ID			X7-SS553-0001	X7-SS553-0102	X7-SB553-0203	X7-SB553-0304	X7-SS554-0001	X7-SS554-0102	X7-SB554-0203	X7-SB554-0304
SAMPLE DATE			20120908	20120908	20120908	20120908	20120908	20120908	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**399.1**	128.85	107	26.5	136.52	116.58	**1337.5**	129.62
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**372**	137	118	48	143.67	126.33	**1188**	137.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk			X7-SB555					
SAMPLE ID			**X7-SB554-0405**	**X7-SB554-0506**	**X7-SS555-0001**	**X7-SS555-0102**	**X7-SB555-0203**	**X7-SB555-0304**	**X7-SS556-0001**	**X7-SS556-0102**
SAMPLE DATE			**20120910**	**20120910**	**20120908**	**20120908**	**20120908**	**20120908**	**20120908**	**20120908**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**
TOP DEPTH			**4**	**5**	**0**	**1**	**2**	**3**	**0**	**1**
BOTTOM DEPTH			**5**	**6**	**1**	**2**	**3**	**4**	**1**	**2**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	31.867	10	87.833	**536.33**	108.53	10	**373.03**	**2242.2**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	52.67	11	101.33	**491.33**	119.33	23	**349.33**	**1974.67**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB556						X7-SB557	
SAMPLE ID			X7-SB556-0203	X7-SB556-0304	X7-SB556-0405	X7-SB556-0506	X7-SB556-0607	X7-SB556-0708	X7-SS557-0001	X7-SS557-0102
SAMPLE DATE			20120908	20120908	20120910	20120910	20120911	20120911	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SB	SB	SS	SS
TOP DEPTH			2	3	4	5	6	7	0	1
BOTTOM DEPTH			3	4	5	6	7	8	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**312.47**	**289.08**	**192.87**	**700.78**	108.15	23.05	**295.22**	**416.35**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**296.67**	**276.33**	**192.67**	**634.33**	119	45	**281.67**	**387**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB557						
SAMPLE ID			X7-SB557-0203	X7-SB557-0304	X7-SB557-0405	X7-SB557-0506	X7-SS558-0001	X7-SS558-0102	X7-SB558-0203
SAMPLE DATE			20120908	20120908	20120910	20120910	20120908	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			2	3	4	5	0	1	2
BOTTOM DEPTH			3	4	5	6	1	2	3
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**823.83**	**1935.1**	10.4	2.35	**547.07**	**220.08**	72.117
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**741.33**	**1707.67**	34	27	**500.67**	**216.33**	87.67

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB558					X7-SB559		
SAMPLE ID			X7-SB558-0304	X7-SB558-0405	X7-SB558-0506	X7-SB558-0607	X7-SB558-0708	X7-SS559-0001	X7-SS559-0102	X7-SB559-0203
SAMPLE DATE			20120908	20120910	20120910	20120910	20120910	20120908	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			3	4	5	6	7	0	1	2
BOTTOM DEPTH			4	5	6	7	8	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	**217 J**	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**1868.8**	10	188.27	15	10	**465.8**	**1027.8**	39.15
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**1650**	13	188.67	38	24	**430**	**918.67**	59

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION				X7-SB560						X7-SB561
SAMPLE ID			X7-SB559-0304	X7-SS560-0001	X7-SS560-0102	X7-SB560-0203	X7-SB560-0304	X7-SS561-0001	X7-SS561-0102	X7-SB561-0203
SAMPLE DATE	Human Health	Ecological Risk	20120908	20120908	20120908	20120908	20120908	20120908	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SB	SB	SS	SS	SB
TOP DEPTH			3	0	1	2	3	0	1	2
BOTTOM DEPTH			4	1	2	3	4	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	144 J
LEAD-CALC	400	192	10	**365.37**	**823.83**	131.15	37.617	**215.1**	99.333	170.63
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	11.67	**342.67**	**741.33**	139	57.67	**212**	111.33	173.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB562						
SAMPLE ID			X7-SB561-0304	X7-SB561-0405	X7-SS562-0001	X7-SS562-0102	X7-SB562-0203	X7-SB562-0304	X7-SS563-0001
SAMPLE DATE			20120908	20120910	20120908	20120908	20120908	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SB	SB	SS
TOP DEPTH			3	4	0	1	2	3	0
BOTTOM DEPTH			4	5	1	2	3	4	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	**195 J**
LEAD-CALC	400	192	10	10	**392.97**	**385.68**	173.32	10	**234.27**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	12.33	12.67	**366.67**	**360.33**	175.67	12	**228.67**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB563			X7-SB564				
SAMPLE ID			X7-SS563-0102	X7-SB563-0203	X7-SB563-0304	X7-SS564-0001	X7-SS564-0102	X7-SB564-0203	X7-SB564-0304	X7-SS565-0001
SAMPLE DATE	Human	Ecological	20120908	20120908	20120908	20120908	20120908	20120908	20120908	20120907
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB	SS
TOP DEPTH			1	2	3	0	1	2	3	0
BOTTOM DEPTH			2	3	4	1	2	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	10	**221.62**	36.083	10	10	**2057.8**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	13.67	12.67	11.33	**217.67**	56.33	7.33	7.67	**1814.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB565							X7-SB566
SAMPLE ID			X7-SS565-0102	X7-SB565-0203	X7-SB565-0304	X7-SB565-0405	X7-SB565-0506	X7-SS566-0001	X7-SS566-0102	X7-SB566-0203
SAMPLE DATE	Human	Ecological	20120907	20120907	20120907	20120910	20120910	20120907	20120907	20120907
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			1	2	3	4	5	0	1	2
BOTTOM DEPTH			2	3	4	5	6	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**5081.9**	**966.05**	10	8.4833	10	**796.23**	**338.15**	**1727**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**4444**	**865**	21.33	32.33	14.33	**717.33**	**319**	**1526.67**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk			X7-SB581		X7-SB582			
SAMPLE ID			**X7-SB566-0304**	**X7-SB566-0405**	**X7-SS581-0001**	**X7-SS581-0102**	**X7-SS582-0001**	**X7-SS582-0102**	**X7-SB582-0203**	**X7-SB582-0304**
SAMPLE DATE			**20120907**	**20120911**	**20120907**	**20120907**	**20120907**	**20120907**	**20120907**	**20120907**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SB**	**SS**	**SS**	**SS**	**SS**	**SB**	**SB**
TOP DEPTH			**3**	**4**	**0**	**1**	**0**	**1**	**2**	**3**
BOTTOM DEPTH			**4**	**5**	**1**	**2**	**1**	**2**	**3**	**4**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	52.183	3.1167	**377.63**	10	**1037.4**	**4003.2**	**2313.5**	**207.05**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	70.33	27.67	**353.33**	20	**927**	**3506**	**2036.67**	**205**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk			X7-SB583					
SAMPLE ID			**X7-SB582-0405**	**X7-SB582-0506**	**X7-SS583-0001**	**X7-SS583-0102**	**X7-SB583-0203**	**X7-SB583-0304**	**X7-SB583-0405**	**X7-SB583-0506**
SAMPLE DATE			**20120910**	**20120910**	**20120907**	**20120907**	**20120907**	**20120907**	**20120910**	**20120910**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SB**	**SS**	**SS**	**SB**	**SB**	**SB**	**SB**
TOP DEPTH			**4**	**5**	**0**	**1**	**2**	**3**	**4**	**5**
BOTTOM DEPTH			**5**	**6**	**1**	**2**	**3**	**4**	**5**	**6**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	7.7167	10	**4092.1**	**2425.8**	**1847.7**	10	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	31.67	16.33	**3583.33**	**2134.33**	**1631.67**	12	9	13

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB584				X7-SB585		X7-SB586	
SAMPLE ID			X7-SS584-0001	X7-SS584-0102	X7-SB584-0203	X7-SB584-0304	X7-SS585-0001	X7-SS585-0102	X7-SS586-0001	X7-SS586-0102
SAMPLE DATE			20120907	20120907	20120910	20120910	20120907	20120907	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SS	SS
TOP DEPTH			0	1	2	3	0	1	0	1
BOTTOM DEPTH			1	2	3	4	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**242 J**	NA	NA	NA	NA	NA	NA	**204 J**
LEAD-CALC	400	192	**205.9**	10	10	10	175.23	10	**386.07**	175.23
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**204**	6.33	3	8	177.33	10.33	**360.67**	177.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB587		X7-SB588			X7-SB589		
SAMPLE ID			X7-SS587-0001	X7-SS587-0102	X7-SS588-0001	X7-SS588-0102	X7-SB588-0203	X7-SS589-0001	X7-SS589-0102	X7-SB589-0203
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SS	SS	SB
TOP DEPTH			0	1	0	1	2	0	1	2
BOTTOM DEPTH			1	2	1	2	3	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	138 J	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	129.62	100.48	129.62	100.48	NA	**409.45**	3.8833	**239.63**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	137.67	112.33	**258.67**	53	62.33	**381**	28.33	**233.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION				X7-SB590		X7-SB591				
SAMPLE ID			X7-SB589-0304	X7-SS590-0001	X7-SS590-0102	X7-SS591-0001	X7-SS591-0102	X7-SB591-0203	X7-SB591-0304	X7-SS592-0001
SAMPLE DATE	Human	Ecological	20120910	20120910	20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SS	SB	SB	SS
TOP DEPTH			3	0	1	0	1	2	3	0
BOTTOM DEPTH			4	1	2	1	2	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**293.3**	163.35	10.017	173.32	**865.23**	**322.43**	**355.02**	**231.2**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**280**	167	33.67	175.67	**777.33**	**305.33**	**333.67**	**226**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB592							
SAMPLE ID			X7-SS592-0102	X7-SB592-0203	X7-SB592-0304	X7-SB592-0405	X7-SB592-0506	X7-SB592-0607	X7-SB592-0708	X7-SS593-0001
SAMPLE DATE	Human	Ecological	20120910	20120910	20120910	20120910	20120910	20120911	20120911	20120910
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SB	SB	SB	SB	SS
TOP DEPTH			1	2	3	4	5	6	7	0
BOTTOM DEPTH			2	3	4	5	6	7	8	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	**240 J**	NA	NA	NA
LEAD-CALC	400	192	**302.5**	**416.35**	**519.47**	**1400.8**	**203.6**	23.05	10	**531.35**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**288**	**387**	**476.67**	**1243**	**202**	45	12.33	**487**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB593			X7-SB594			
SAMPLE ID			X7-SS593-0102	X7-SB593-0203	X7-SB593-0304	X7-SS594-0001	X7-SS594-0102	X7-SB594-0203	X7-SB594-0304
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			1	2	3	0	1	2	3
BOTTOM DEPTH			2	3	4	1	2	3	4
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	19.6 J	NA	NA	NA	NA
LEAD-CALC	400	192	**393.73**	10	95.5	**272.6**	**477.3**	**699.25**	78.25
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**367.33**	13.33	108	**262**	**440**	**633**	93

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB595		X7-SB596		X7-SB597		X7-SB598	
SAMPLE ID			X7-SS595-0001	X7-SS595-0102	X7-SS596-0001	X7-SS596-0102	X7-SS597-0001	X7-SS597-0102	X7-SS598-0001	X7-SS598-0102
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1	0	1
BOTTOM DEPTH			1	2	1	2	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	157 J	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	152.62	10	10	10	89.367	10	21.133	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	157.67	8	12	9	102.67	7.67	43.33	15.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB599		X7-SB600		X7-SB601			
SAMPLE ID			X7-SS599-0001	X7-SS599-0102	X7-SS600-0001	X7-SS600-0102	X7-SS601-0001	X7-SS601-0102	X7-SB601-0203	X7-SB601-0304
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	1	0	1	0	1	2	3
BOTTOM DEPTH			1	2	1	2	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	6.5667	10	**1638.4**	**2139.4**	**571.6**	7.3333
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	15.33	7	30.67	10.33	**1449.67**	**1885.33**	**522**	31.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB602				X7-SB603			
SAMPLE ID			X7-SS602-0001	X7-SS602-0102	X7-SB602-0203	X7-SB602-0304	X7-SS603-0001	X7-SS603-0102	X7-SB603-0203	X7-SB603-0304
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	113.52	**281.8**	128.85	49.5	70.583	**272.6**	**305.57**	**512.18**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	123.67	**270**	137	68	86.33	**262**	**290.67**	**470.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB603		X7-SB604				
SAMPLE ID			X7-SB603-0405	X7-SB603-0506	X7-SS604-0001	X7-SS604-0102	X7-SB604-0203	X7-SB604-0304	X7-SS605-0001
SAMPLE DATE			20120911	20120911	20120910	20120910	20120910	20120910	20120910
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SB	SB	SS
TOP DEPTH			4	5	0	1	2	3	0
BOTTOM DEPTH			5	6	1	2	3	4	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	52.183	**369.58**	**368.05**	10	**2420.4**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	8	5.33	70.33	**346.33**	**345**	11.33	**2129.67**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB605			X7-SB606		X7-SB610		
SAMPLE ID			X7-SS605-0102	X7-SB605-0203	X7-SB605-0304	X7-SS606-0001	X7-SS606-0102	X7-SS610-0001	X7-SS610-0102	X7-SB610-0203
SAMPLE DATE			20120910	20120910	20120910	20120910	20120910	20120911	20120911	20120911
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SS	SS	SB
TOP DEPTH			1	2	3	0	1	0	1	2
BOTTOM DEPTH			2	3	4	1	2	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**5270.1**	**7741.5**	34.55	10	10	**1654.1**	108.92	4.65
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**4607.67**	**6756.67**	55	7	8	**1463.33**	119.67	29

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB611					X7-SB612		
SAMPLE ID			X7-SS611-0001	X7-SS611-0102	X7-SB611-0203	X7-SB611-0304	X7-SB611-0405	X7-SS612-0001	X7-SS612-0102	X7-SB612-0203
SAMPLE DATE			20120911	20120911	20120911	20120911	20120911	20120911	20120911	20120911
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SB	SS	SS	SB
TOP DEPTH			0	1	2	3	4	0	1	2
BOTTOM DEPTH			1	2	3	4	5	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	**207 J**	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**1813.2**	**2332.3**	**240.4**	14.233	33.4	**317.45**	**314.38**	**520.62**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**1601.67**	**2053**	**234**	37.33	54	**301**	**298.33**	**477.67**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB613				X7-SB614		
SAMPLE ID			**X7-SB612-0304**	**X7-SS613-0001**	**X7-SS613-0102**	**X7-SB613-0203**	**X7-SB613-0304**	**X7-SS614-0001**	**X7-SS614-0102**	**X7-SS615-0001**
SAMPLE DATE			**20120911**	**20120911**	**20120911**	**20120911**	**20120911**	**20120911**	**20120911**	**20120911**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SS**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**0**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**1**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	**199.77**	**272.98**	10	10	108.15	21.517	**335.85**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	22.67	**198.67**	**262.33**	13.33	6.67	119	43.67	**317**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB615			X7-SB616			
SAMPLE ID			X7-SS615-0102	X7-SB615-0203	X7-SB615-0304	X7-SS616-0001	X7-SS616-0102	X7-SB616-0203	X7-SB616-0304
SAMPLE DATE			20120911	20120911	20120911	20120911	20120911	20120911	20120911
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			1	2	3	0	1	2	3
BOTTOM DEPTH			2	3	4	1	2	3	4
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	123 J	NA	NA	NA	NA
LEAD-CALC	400	192	119.27	23.433	136.52	**218.17**	**297.9**	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	128.67	45.33	143.67	**214.67**	**284**	5.67	16

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB617		X7-SB618				
SAMPLE ID			X7-SS617-0001	X7-SS617-0102	X7-SS618-0001	X7-SS618-0102	X7-SS618-0203	X7-SS619-0001	X7-SS619-0102
SAMPLE DATE			20120911	20120911	20120911	20120911	20120911	20120911	20120911
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SS	SS
TOP DEPTH			0	1	0	1	2	0	1
BOTTOM DEPTH			1	2	1	2	3	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	107	10	10	10	10	**895.13**	**2532.7**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	118	11	5.33	12	12	**803.33**	**2227.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB619				X7-SB620			
SAMPLE ID			X7-SB619-0203	X7-SB619-0304	X7-SB619-0405	X7-SB619-0506	X7-SS620-0001	X7-SS620-0102	X7-SB620-0203	X7-SB620-0304
SAMPLE DATE			20120911	20120911	20120911	20120911	20120911	20120911	20120911	20120911
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SB	SB	SS	SS	SB	SB
TOP DEPTH			2	3	4	5	0	1	2	3
BOTTOM DEPTH			3	4	5	6	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	161 J	NA
LEAD-CALC	400	192	**2972.4**	**1075.3**	10	4.65	**2384**	**986.37**	99.333	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**2609.67**	**960**	12	29	**2098**	**882.67**	111.33	20.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB621				X7-SB622			
SAMPLE ID			X7-SS621-0001	X7-SS621-0102	X7-SB621-0203	X7-SB621-0304	X7-SS622-0001	X7-SS622-0102	X7-SB622-0203	X7-SB622-0304
SAMPLE DATE			20120911	20120911	20120911	20120911	20120911	20120911	20120911	20120911
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	154 J	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**323.97**	173.7	**507.97**	10	98.95	**392.97**	**372.27**	13.85
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**306.67**	176	**466.67**	13	111	**366.67**	**348.67**	37

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB623		X7-SB624					
SAMPLE ID			X7-SS623-0001	X7-SS623-0102	X7-SS624-0001	X7-SS624-0102	X7-SB624-0203	X7-SB624-0304	X7-SB624-0405	X7-SB624-0506
SAMPLE DATE			20120911	20120911	20120911	20120911	20120911	20120911	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SB	SB	SB
TOP DEPTH			0	1	0	1	2	3	4	5
BOTTOM DEPTH			1	2	1	2	3	4	5	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	**334**	NA	NA	NA	NA	NA
LEAD-CALC	400	192	40.3	10	**248.07**	**1145.1**	**4628**	**2821**	**2144.4**	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	60	14.33	**240.67**	**1020.67**	**4049.33**	**2478**	**1889.7**	16.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk			X7-SB625					
SAMPLE ID			X7-SB624-0607	X7-SB624-0708	X7-SS625-0001	X7-SS625-0102	X7-SB625-0203	X7-SB625-0304	X7-SB625-0405	X7-SB625-0506
SAMPLE DATE			20121003	20121003	20120911	20120911	20120911	20120911	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SB	SB	SB	SB
TOP DEPTH			6	7	0	1	2	3	4	5
BOTTOM DEPTH			7	8	1	2	3	4	5	6
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	**455.45**	**1126.3**	**483.43**	**677.02**	13.083	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	11.667	16.333	**421**	**1004.33**	**445.33**	**613.67**	36.333	12.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION				X7-SB626				X7-SB627		
SAMPLE ID			**X7-SB625-0607**	**X7-SS626-0001**	**X7-SS626-0102**	**X7-SB626-0203**	**X7-SB626-0304**	**X7-SS627-0001**	**X7-SS627-0102**	**X7-SB627-0203**
SAMPLE DATE	Human	Ecological	**20121003**	**20120911**	**20120911**	**20120911**	**20120911**	**20120911**	**20120911**	**20120911**
SAMPLE CODE	Health	Risk	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**6**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**7**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	148	NA	NA	NA	NA	142	NA
LEAD-CALC	400	192	10	126.55	10	10	10	105.85	158.75	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	12	135	14.67	8.33	13.33	117	163	13

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION				X7-SB628		X7-SB629				
SAMPLE ID			X7-SB627-0304	X7-SS628-0001	X7-SS628-0102	X7-SS629-0001	X7-SS629-0102	X7-SB629-0203	X7-SB629-0304	X7-SB629-0405
SAMPLE DATE	Human	Ecological	20120911	20120911	20120911	20121003	20121003	20121003	20121003	20121006
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SS	SB	SB	SB
TOP DEPTH			3	0	1	0	1	2	3	4
BOTTOM DEPTH			4	1	2	1	2	3	4	5
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	35.317	44.133	**440.88**	**818.85**	**1113.6**	**1636.5**	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	13.33	55.67	63.33	**408.33**	**737**	**993.33**	**1448**	22

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB630				X7-SB631		
SAMPLE ID			**X7-SB629-0506**	**X7-SS630-0001**	**X7-SS630-0102**	**X7-SB630-0203**	**X7-SB630-0304**	**X7-SS631-0001**	**X7-SS631-0102**	**X7-SB631-0203**
SAMPLE DATE			**20121006**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**5**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**6**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	**3499.1**	33.4	10	10	10	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	14	**3067.7**	54	14	10.333	24	14	12

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB632						
SAMPLE ID			X7-SS632-0001	X7-SS632-0102	X7-SB632-0203	X7-SB632-0304	X7-SB632-0405	X7-SB632-0506	X7-SS633-0001
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SB	SB	SS
TOP DEPTH			0	1	2	3	4	5	0
BOTTOM DEPTH			1	2	3	4	5	6	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**1758**	**3246.1**	**2917.6**	**4735.8**	**376.48**	10	**6003.4**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**1553.7**	**2847.7**	**2562**	**4143**	**352.33**	15	**5245.3**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB633			X7-SB634				
SAMPLE ID			X7-SS633-0102	X7-SB633-0203	X7-SB633-0304	X7-SS634-0001	X7-SS634-0102	X7-SB634-0203	X7-SB634-0304	X7-SS635-0001
SAMPLE DATE	Human	Ecological	20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB	SS
TOP DEPTH			1	2	3	0	1	2	3	0
BOTTOM DEPTH			2	3	4	1	2	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	67.517	30.333	10.783	**1531.9**	**2338.4**	**3986.7**	10	**2572.6**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	83.667	51.333	34.333	**1357**	**2058.3**	**3491.7**	17.333	**2262**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB635					X7-SB636		
SAMPLE ID			X7-SS635-0102	X7-SB635-0203	X7-SB635-0304	X7-SB635-0405	X7-SB635-0506	X7-SS636-0001	X7-SS636-0102	X7-SB636-0203
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			1	2	3	4	5	0	1	2
BOTTOM DEPTH			2	3	4	5	6	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**4946.2**	**5808.7**	69.05	**4005.1**	10	**942.28**	**3714.9**	**2442.7**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**4326**	**5076**	85	**3507.7**	15.333	**844.33**	**3255.3**	**2149**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB636	X7-SB637						
SAMPLE ID			X7-SB636-0304	X7-SS637-0001	X7-SS637-0102	X7-SB637-0203	X7-SB637-0304	X7-SB637-0405	X7-SB637-0506	X7-SS638-0001
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121006	20121006	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SB	SB	SB	SB	SS
TOP DEPTH			3	0	1	2	3	4	5	0
BOTTOM DEPTH			4	1	2	3	4	5	6	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	159.52	**2063.5**	**594.6**	**1804.4**	189.8	10	10	**310.55**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	163.67	**1819.3**	**542**	**1594**	190	22.333	17	**295**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB638					X7-SB639		
SAMPLE ID			X7-SS638-0102	X7-SB638-0203	X7-SB638-0304	X7-SB638-0405	X7-SB638-0506	X7-SS639-0001	X7-SS639-0102	X7-SB639-0203
SAMPLE DATE			20121003	20121003	20121003	20121006	20121006	20121003	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SB	SB	SS	SS	SB
TOP DEPTH			1	2	3	4	5	0	1	2
BOTTOM DEPTH			2	3	4	5	6	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	**328**	NA	NA	NA	NA
LEAD-CALC	400	192	**250.37**	**463.5**	**571.6**	**246.15**	13.467	**979.47**	**1879.9**	**1672.5**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**242.67**	**428**	**522**	**239**	36.667	**876.67**	**1659.7**	**1479.3**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB640				X7-SB641		
SAMPLE ID			**X7-SB639-0304**	**X7-SS640-0001**	**X7-SS640-0102**	**X7-SB640-0203**	**X7-SB640-0304**	**X7-SS641-0001**	**X7-SS641-0102**	**X7-SB641-0203**
SAMPLE DATE			**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	55.25	**312.85**	**1517.7**	**433.98**	10	76.333	**395.65**	**275.28**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	73	**297**	**1344.7**	**402.33**	17.333	91.333	**369**	**264.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB642				X7-SB643		
SAMPLE ID			**X7-SB641-0304**	**X7-SS642-0001**	**X7-SS642-0102**	**X7-SB642-0203**	**X7-SB642-0304**	**X7-SS643-0001**	**X7-SS643-0102**	**X7-SB643-0203**
SAMPLE DATE			**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	166	NA	NA
LEAD-CALC	400	192	10	**230.82**	125.78	**331.25**	10	178.68	112.75	62.917
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	20	**225.67**	134.33	**313**	16.667	180.33	123	79.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB644				X7-SB645		
SAMPLE ID			**X7-SB643-0304**	**X7-SS644-0001**	**X7-SS644-0102**	**X7-SB644-0203**	**X7-SB644-0304**	**X7-SS645-0001**	**X7-SS645-0102**	**X7-SB645-0203**
SAMPLE DATE			**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	**259.95**	**264.55**	**950.33**	10	103.55	**318.98**	15.383
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	19.667	**251**	**255**	**851.33**	17.333	115	**302.33**	38.333

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION				X7-SB646				X7-SB647		
SAMPLE ID			**X7-SB645-0304**	**X7-SS646-0001**	**X7-SS646-0102**	**X7-SB646-0203**	**X7-SB646-0304**	**X7-SS647-0001**	**X7-SS647-0102**	**X7-SB647-0203**
SAMPLE DATE	Human	Ecological	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE	Health	Risk	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	178	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	90.133	167.18	5.8	10	122.33	**594.6**	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	16.667	103.33	170.33	30	21	131.33	**542**	21.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB648				X7-SB649		
SAMPLE ID			**X7-SB647-0304**	**X7-SS648-0001**	**X7-SS648-0102**	**X7-SB648-0203**	**X7-SB648-0304**	**X7-SS649-0001**	**X7-SS649-0102**	**X7-SB649-0203**
SAMPLE DATE			**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**3**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**4**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	155.3	**425.55**	1.5833	10	146.1	**318.6**	1.2
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	21.667	160	**395**	26.333	13.667	152	**302**	26

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB650			X7-SB651			
SAMPLE ID			X7-SB649-0304	X7-SS650-0001	X7-SS650-0102	X7-SB650-0203	X7-SS651-0001	X7-SS651-0102	X7-SB651-0203	X7-SB651-0304
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SB	SS	SS	SB	SB
TOP DEPTH			3	0	1	2	0	1	2	3
BOTTOM DEPTH			4	1	2	3	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	116	NA	NA
LEAD-CALC	400	192	10	112.37	10.783	10	102.78	116.97	33.4	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	22	122.67	34.333	13.333	114.33	126.67	54	20

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB652			X7-SB653				
SAMPLE ID			X7-SS652-0001	X7-SS652-0102	X7-SB652-0203	X7-SS653-0001	X7-SS653-0102	X7-SB653-0203	X7-SB653-0304	X7-SS654-0001
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SS	SS	SB	SB	SS
TOP DEPTH			0	1	2	0	1	2	3	0
BOTTOM DEPTH			1	2	3	1	2	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	189	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**195.93**	10	10	120.03	44.9	97.417	10	44.133
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**195.33**	17.667	17.667	129.33	64	109.67	18	63.333

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB654			X7-SB655				
SAMPLE ID			X7-SS654-0102	X7-SB654-0203	X7-SB654-0304	X7-SS655-0001	X7-SS655-0102	X7-SB655-0203	X7-SB655-0304	X7-SS656-0001
SAMPLE DATE	Human	Ecological	20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB	SS
TOP DEPTH			1	2	3	0	1	2	3	0
BOTTOM DEPTH			2	3	4	1	2	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	128
LEAD-CALC	400	192	93.583	12.317	10	185.97	**679.7**	95.883	10	121.18
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	106.33	35.667	14.667	186.67	**616**	108.33	19.667	130.33

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB656			X7-SB657				
SAMPLE ID			X7-SS656-0102	X7-SB656-0203	X7-SB656-0304	X7-SS657-0001	X7-SS657-0102	X7-SB657-0203	X7-SB657-0304	X7-SB657-0405
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121006
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SB	SB	SB
TOP DEPTH			1	2	3	0	1	2	3	4
BOTTOM DEPTH			2	3	4	1	2	3	4	5
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	137	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	138.43	10	10	**445.87**	166.8	**281.42**	**367.28**	51.417
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	145.33	17	17.667	**412.67**	170	**269.67**	**344.33**	69.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk		X7-SB658				X7-SB659		
SAMPLE ID			**X7-SB657-0506**	**X7-SS658-0001**	**X7-SS658-0102**	**X7-SB658-0203**	**X7-SB658-0304**	**X7-SS659-0001**	**X7-SS659-0102**	**X7-SB659-0203**
SAMPLE DATE			**20121006**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**	**20121003**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SB**	**SS**	**SS**	**SB**	**SB**	**SS**	**SS**	**SB**
TOP DEPTH			**5**	**0**	**1**	**2**	**3**	**0**	**1**	**2**
BOTTOM DEPTH			**6**	**1**	**2**	**3**	**4**	**1**	**2**	**3**
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	**227**	NA	NA
LEAD-CALC	400	192	10	**669.73**	**1409.6**	32.633	36.083	168.33	80.167	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	17	**607.33**	**1250.7**	53.333	56.333	171.33	94.667	12.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB660				X7-SB661			
SAMPLE ID			X7-SS660-0001	X7-SS660-0102	X7-SB660-0203	X7-SB660-0304	X7-SS661-0001	X7-SS661-0102	X7-SB661-0203	X7-SS662-0001
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121003	20121003	20121003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SS
TOP DEPTH			0	1	2	3	0	1	2	0
BOTTOM DEPTH			1	2	3	4	1	2	3	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	164	NA	NA	**779**
LEAD-CALC	400	192	**272.22**	**1920.6**	10	10	166.42	10	10	**228.9**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**261.67**	**1695**	12.667	14.333	169.67	12.333	13.333	**224**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB662		X7-SB663			X7-SB664	
SAMPLE ID			X7-SS662-0102	X7-SB662-0203	X7-SS663-0001	X7-SS663-0102	X7-SB663-0203	X7-SS664-0001	X7-SS664-0102
SAMPLE DATE			20121003	20121003	20121003	20121003	20121003	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SS	SS	SB	SS	SS
TOP DEPTH			1	2	0	1	2	0	1
BOTTOM DEPTH			2	3	1	2	3	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	**228.9**	10	10	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	12	17.667	**224**	12	17.667	10	11

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB665		X7-SB666		X7-SB667			
SAMPLE ID			X7-SS665-0001	X7-SS665-0102	X7-SS666-0001	X7-SS666-0102	X7-SS667-0001	X7-SS667-0102	X7-SB667-0203	X7-SB667-0304
SAMPLE DATE			20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	1	0	1	0	1	2	3
BOTTOM DEPTH			1	2	1	2	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	10	10	38	**950.33**	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	12.667	13	11	18	58	**851.33**	18.667	21.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB668				X7-SB669		X7-SB669	
SAMPLE ID			X7-SS668-0001	X7-SS668-0102	X7-SB668-0203	X7-SB668-0304	X7-SS669-0001	X7-SS669-0102	X7-SB669-0203	X7-SB669-0304
SAMPLE DATE			20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**225**	182	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**234.65**	185.97	10	10	**348.12**	1.9667	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**229**	186.67	15.667	22.667	**327.67**	26.667	23	16.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB670				X7-SB671			
SAMPLE ID			X7-SS670-0001	X7-SS670-0102	X7-SB670-0203	X7-SB670-0304	X7-SS671-0001	X7-SS671-0102	X7-SB671-0203	X7-SS672-0001
SAMPLE DATE			20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SS
TOP DEPTH			0	1	2	3	0	1	2	0
BOTTOM DEPTH			1	2	3	4	1	2	3	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**2814.5**	**3418.6**	10	10	**2961.7**	3.5	10	**461.58**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**2472.3**	**2997.7**	14.333	19.667	**2600.3**	28	11.667	**426.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB672		X7-SB673			X7-SB674		
SAMPLE ID			X7-SS672-0102	X7-SB672-0203	X7-SS673-0001	X7-SS673-0102	X7-SB673-0203	X7-SS674-0001	X7-SS674-0102	X7-SB674-0203
SAMPLE DATE			20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SS	SS	SB	SS	SS	SB
TOP DEPTH			1	2	0	1	2	0	1	2
BOTTOM DEPTH			2	3	1	2	3	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	**1959.3**	10	10	**846.45**	15.767	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	13.667	16.667	**1728.7**	17.333	14.333	**761**	38.667	14.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB675				X7-SB676			
SAMPLE ID			X7-SS675-0001	X7-SS675-0102	X7-SB675-0203	X7-SB675-0304	X7-SS676-0001	X7-SS676-0102	X7-SB676-0203	X7-SB676-0304
SAMPLE DATE			20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**865.62**	**532.5**	5.4167	10	**977.55**	**411.37**	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**777.67**	**488**	29.667	16.333	**875**	**382.67**	17.667	18.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB677				X7-SB678			
SAMPLE ID			X7-SS677-0001	X7-SS677-0102	X7-SB677-0203	X7-SB677-0304	X7-SS678-0001	X7-SS678-0102	X7-SB678-0203	X7-SB678-0304
SAMPLE DATE			20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**391.05**	**744.1**	**1104.4**	9.25	107.38	**488.8**	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**365**	**672**	**985.33**	33	118.33	**450**	23	15

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB679				X7-SB680			
SAMPLE ID			X7-SS679-0001	X7-SS679-0102	X7-SB679-0203	X7-SB679-0304	X7-SS680-0001	X7-SS680-0102	X7-SB680-0203	X7-SB680-0304
SAMPLE DATE			20121006	20121006	20121006	20121006	20121004	20121004	20121006	20121006
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SB	SS	SS	SB	SB
TOP DEPTH			0	1	2	3	0	1	2	3
BOTTOM DEPTH			1	2	3	4	1	2	3	4
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	159	**249**	NA	NA
LEAD-CALC	400	192	**236.18**	**568.53**	18.833	10	140.73	**233.88**	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**230.33**	**519.33**	41.333	18.333	147.33	**228.33**	18.667	11.333

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB681			X7-SB682			X7-SB683	
SAMPLE ID			X7-SS681-0001	X7-SS681-0102	X7-SB681-0203	X7-SS682-0001	X7-SS682-0102	X7-SB682-0203	X7-SS683-0001	X7-SS683-0102
SAMPLE DATE			20121004	20121006	20121006	20121004	20121006	20121006	20121006	20121006
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SB	SS	SS	SB	SS	SS
TOP DEPTH			0	1	2	0	1	2	0	1
BOTTOM DEPTH			1	2	3	1	2	3	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	152	NA	NA	161	NA	NA	NA	NA
LEAD-CALC	400	192	131.15	29.567	10	164.5	10	10	70.583	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	139	50.667	16.667	168	16.333	18.333	86.333	18.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION			X7-SB684		X7-SB685		X7-SB686			
SAMPLE ID			X7-SS684-0001	X7-SS684-0102	X7-SS685-0001	X7-SS685-0102	X7-SS686-0001	X7-SS686-0102	X7-SB686-0203	X7-SS687-0001
SAMPLE DATE	Human	Ecological	20121004	20121004	20121004	20121004	20121004	20121004	20121004	20121004
SAMPLE CODE	Health	Risk	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SB	SS
TOP DEPTH			0	1	0	1	0	1	2	0
BOTTOM DEPTH			1	2	1	2	1	2	3	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA	**262**
LEAD-CALC	400	192	10	10	10	10	**448.93**	80.167	7.3333	**254.58**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	11.333	13	12.667	15	**415.33**	94.667	31.333	**246.33**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB687		X7-SB688		X7-SB689		
SAMPLE ID			X7-SS687-0102	X7-SB687-0203	X7-SS688-0001	X7-SS688-0102	X7-SS689-0001	X7-SS689-0102	X7-SB689-0203
SAMPLE DATE			20121004	20121004	20121008	20121008	20121008	20121008	20121008
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SS	SS	SS	SS	SB
TOP DEPTH			1	2	0	1	0	1	2
BOTTOM DEPTH			2	3	1	2	1	2	3
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	92.05	10	10	3.5	10	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	105	15.667	15	28	17	21	21.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB690		X7-SB691					
SAMPLE ID			X7-SS690-0001	X7-SS690-0102	X7-SS691-0001	X7-SS691-0102	X7-SB691-0203	X7-SS691-0203	X7-SB691-0304	X7-SS692-0001
SAMPLE DATE			20121008	20121008	20121008	20121008	20121008	20121008	20121008	20121008
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SB	SB	SS
TOP DEPTH			0	1	0	1	2	2	3	0
BOTTOM DEPTH			1	2	1	2	3	3	4	1
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	117	NA	NA
LEAD-CALC	400	192	10	29.567	10	**320.52**	169.1	NA	10	**1914.8**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	20.667	50.667	23.667	**303.67**	172	NA	19.667	**1690**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB692			X7-SB693		X7-SB694		
SAMPLE ID			X7-SS692-0102	X7-SB692-0203	X7-SB692-0304	X7-SS693-0001	X7-SS693-0102	X7-SS694-0001	X7-SS694-0102	X7-SB694-0203
SAMPLE DATE			20121008	20121008	20121008	20121008	20121008	20121008	20121008	20121008
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SS	SS	SB
TOP DEPTH			1	2	3	0	1	0	1	2
BOTTOM DEPTH			2	3	4	1	2	1	2	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	142	NA	NA
LEAD-CALC	400	192	**451.23**	10	10	29.183	10	138.43	15.383	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**417.33**	24	22	50.333	19.667	145.33	38.333	10

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB695		X7-SB696				X7-SB697	
SAMPLE ID			X7-SS695-0001	X7-SS695-0102	X7-SS696-0001	X7-SS696-0102	X7-SB696-0203	X7-SB696-0304	X7-SS697-0001	X7-SS697-0102
SAMPLE DATE			20121008	20121008	20121008	20121008	20121008	20121008	20121008	20121008
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SB	SB	SS	SS
TOP DEPTH			0	1	0	1	2	3	0	1
BOTTOM DEPTH			1	2	1	2	3	4	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	148	NA	NA	NA
LEAD-CALC	400	192	70.2	11.167	74.033	**853.35**	111.6	10	80.933	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	86	34.667	89.333	**767**	122	14.667	95.333	18.667

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB698		X7-SB699		X7-SB700		
SAMPLE ID			X7-SS698-0001	X7-SS698-0102	X7-SS699-0001	X7-SS699-0102	X7-SS700-0001	X7-SS700-0102	X7-SS701-0001
SAMPLE DATE			20121008	20121008	20121008	20121008	20121008	20121008	20121008
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	0	1	0
BOTTOM DEPTH			1	2	1	2	1	2	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	23.817	5.8	10	10	**3444.7**
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	23.333	14.667	45.667	30	24	13.333	**3020.3**

Concentration exceeds screening value

TABLE 3-4

LEAD DELINEATION SOIL SAMPLING - CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB701			X7-SB702		X7-SB703	
SAMPLE ID			X7-SS701-0102	X7-SB701-0203	X7-SB701-0304	X7-SS702-0001	X7-SS702-0102	X7-SS703-0001	X7-SS703-0102
SAMPLE DATE			20121008	20121008	20121008	20121008	20121008	20121008	20121008
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SS	SS	SS	SS
TOP DEPTH			1	2	3	0	1	0	1
BOTTOM DEPTH			2	3	4	1	2	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**346.58**	10	17.683	24.2	16.533	51.033	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**326.33**	13.667	40.333	46	39.333	69.333	21

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB038			X7-SB039			X7-SB040
SAMPLE ID			X7-SB038-0203	X7-SB038-0304	X7-SS038-0002	X7-SB039-0203	X7-SB039-0304	X7-SS039-0002	X7-SS040-0002
SAMPLE DATE			20120908	20120908	20071003	20120908	20120908	20071003	20071003
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SB	SB	SS	SS
TOP DEPTH			2	3	0	2	3	0	0
BOTTOM DEPTH			3	4	2	3	4	2	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	15300	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	96.2 J	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	7.2	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	91.2	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	0.637	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	0.895	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	26700	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	20.4	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	9.72	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	94.6	NA
IRON	NC	NC	NA	NA	NA	NA	NA	26600	NA
LEAD	400	192	NA	NA	NA	152	NA	**495**	NA
LEAD-CALC	400	192	74.417	15	**213**	172.55	162.58	**400**	119
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	7000	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	737	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	14.5	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	1100	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	0.406	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	0.109	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	65.3 U	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	0.197	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	32.1	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	89.8	NA
XRF (MG/KG)									
LEAD	400	192	89.67	38	**213.33**	175	166.33	**382**	124

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB041	X7-SB042	X7-SB183	X7-SB184	X7-SB309		
SAMPLE ID			X7-SS041-0002	X7-SS042-0002	X7-SS183-0002	X7-SS184-0002	X7-SS309-0001	X7-SB310-0203	X7-SB310-0304
SAMPLE DATE			20071003	20071003	20071007	20071007	20111107	20111112	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SB	SB
TOP DEPTH			0	0	0	0	0	2	3
BOTTOM DEPTH			2	2	2	2	1	3	4
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	19400	15600	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	0.59 U	0.38 U	NA	NA	NA
ARSENIC	NC	NC	NA	NA	17	12.5	NA	NA	NA
BARIUM	NC	NC	NA	NA	92.9	73.7	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	0.718 J	0.625 J	NA	NA	NA
CADMIUM	NC	NC	NA	NA	1.9	1.32	NA	NA	NA
CALCIUM	NC	NC	NA	NA	18700	1790	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	28.5	21.1	NA	NA	NA
COBALT	NC	NC	NA	NA	16.9	18.6	NA	NA	NA
COPPER	NC	NC	NA	NA	48.2	33.8	NA	NA	NA
IRON	NC	NC	NA	NA	29700	24700	NA	NA	NA
LEAD	400	192	NA	NA	28.8	25.3	NA	**209**	NA
LEAD-CALC	400	192	26	NA	21	22	65.9	184	186.35
MAGNESIUM	NC	NC	NA	NA	3910	2620	NA	NA	NA
MANGANESE	NC	NC	NA	NA	334	477	NA	NA	NA
NICKEL	NC	NC	NA	NA	29.7	24.3	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	1740	1180	NA	NA	NA
SELENIUM	NC	NC	NA	NA	0.913	0.367	NA	NA	NA
SILVER	NC	NC	NA	NA	0.238	0.152	NA	NA	NA
SODIUM	NC	NC	NA	NA	138	93.5	NA	NA	NA
THALLIUM	NC	NC	NA	NA	0.525	0.394	NA	NA	NA
VANADIUM	NC	NC	NA	NA	85.9	64.3	NA	NA	NA
ZINC	NC	NC	NA	NA	74.3	61	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	30.67	0 U	24.67	25.67	66.67	**197.67**	187

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB310			X7-SB311	X7-SB312		
SAMPLE ID			X7-SB310-0405	X7-SS310-0001	X7-SS310-0102	X7-SS311-0001	X7-SB312-0203	X7-SB312-0304	X7-SS312-0001
SAMPLE DATE			20120908	20111107	20111107	20111107	20120908	20120908	20111107
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SS	SS	SS	SB	SB	SS
TOP DEPTH			4	0	1	0	2	3	0
BOTTOM DEPTH			5	1	2	1	3	4	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	145	NA	**374**	NA	NA	NA	NA
LEAD-CALC	400	192	115.82	**374**	**350**	88.5	35.317	10	143
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	125.67	**408**	**381.33**	91.67	55.67	20	152

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB313						X7-SB314	
SAMPLE ID			X7-SS312-0102	X7-SB313-0203	X7-SB313-0304	X7-SB313-0405	X7-SS313-0001	X7-SS313-0102	X7-SS314-0001	X7-SS314-0102
SAMPLE DATE			20111107	20111112	20120908	20120908	20111107	20111107	20111107	20111107
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SB	SB	SB	SS	SS	SS	SS
TOP DEPTH			1	2	3	4	0	1	0	1
BOTTOM DEPTH			2	3	4	5	1	2	1	2
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**249**	NA	NA	NA	187	NA	NA	NA
LEAD-CALC	400	192	**197**	**466**	10	10	157	**201**	126	179
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**212**	**509.33**	18.67	18.33	167.33	**215.67**	133	192

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB315		X7-SB316		X7-SB317	X7-SB318	X7-SB319	
SAMPLE ID			X7-SS315-0001	X7-SS315-0102	X7-SS316-0001	X7-SS316-0102	X7-SS317-0001	X7-SS318-0001	X7-SS319-0001	X7-SB320-0203
SAMPLE DATE			20111107	20111107	20111107	20111107	20111107	20111107	20111107	20111112
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS	SB
TOP DEPTH			0	1	0	1	0	0	0	2
BOTTOM DEPTH			1	2	1	2	1	1	1	3
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**220**	NA	NA	NA	NA	NA	NA	NA
LEAD-CALC	400	192	**201**	64.7	**322**	34	74.9	90.9	70.7	24.9
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	**215.67**	65.33	**350**	31.33	76.67	94.33	72	21.33

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB320		X7-SB371				X7-SB373
SAMPLE ID			X7-SS320-0001	X7-SS320-0102	X7-SS371-0001	X7-SS371-0102	X7-SS371-0102D	X7-SS371-0203	X7-SS373-0001
SAMPLE DATE			20111107	20111107	20111112	20120908	20120908	20120908	20111112
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SB	SS
TOP DEPTH			0	1	0	1	1	2	0
BOTTOM DEPTH			1	2	1	2	2	3	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	**244**	110	NA	NA	NA
LEAD-CALC	400	192	**279**	162	**239**	123.87	NA	10	50.8
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**302.67**	172.67	**258.33**	132.67	15.33	15.333	50

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB376		X7-SB377			X7-SB379	X7-SB383
SAMPLE ID			X7-SS376-0001	X7-SS376-0102	X7-SS377-0001	X7-SS377-0102	X7-SS377-0102-D	X7-SS379-0001	X7-SS383-0001
SAMPLE DATE			20111112	20111112	20111112	20111112	20111112	20111112	20111112
SAMPLE CODE			NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SS	SS	SS	SS
TOP DEPTH			0	1	0	1	1	0	0
BOTTOM DEPTH			1	2	1	2	2	1	1
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	136	NA	98.6	93.1	NA	NA
LEAD-CALC	400	192	184	142	**380**	123	NA	49.6	64.4
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	**197.33**	150.67	**413.67**	130	NA	48.67	65

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB385		X7-SB387	X7-SB430			X7-SB431	
SAMPLE ID			X7-SS385-0001	X7-SS385-0102	X7-SS387-0001	X7-SB430-0304	X7-SB430-0405	X7-SB430-0506	X7-SB431-0304	X7-SB431-0405
SAMPLE DATE			20111112	20111112	20111112	20111115	20111115	20111115	20111115	20111115
SAMPLE CODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SS	SS	SS	SB	SB	SB	SB	SB
TOP DEPTH			0	1	0	3	4	5	3	4
BOTTOM DEPTH			1	2	1	4	5	6	4	5
METALS (MG/KG)										
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	**200**	NA	NA	NA	NA	NA	NA	21.3
LEAD-CALC	400	192	154	60.8	77.4	15.3	10.2	10.2	47.2	32.8
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)										
LEAD	400	192	164	61	79.33	10.67	5	5	46	30

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB432		X7-SB434			X7-SB578	
SAMPLE ID			X7-SB432-0304	X7-SB432-0405	X7-SS434-0001	X7-SS434-0102	X7-SS434-0102-D	X7-SS578-0001	X7-SS578-0102
SAMPLE DATE			20111115	20111115	20111115	20111115	20111115	20120908	20120908
SAMPLE CODE			NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
MATRIX			SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			SB	SB	SS	SS	SS	SS	SS
TOP DEPTH			3	4	0	1	1	0	1
BOTTOM DEPTH			4	5	1	2	2	1	2
METALS (MG/KG)									
ALUMINUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA	NA	NA	NA
LEAD	400	192	NA	NA	162	NA	NA	NA	NA
LEAD-CALC	400	192	23.4	10.2	98.5	29.4	30.3	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA	NA	NA	NA
XRF (MG/KG)									
LEAD	400	192	19.67	5	102.67	26.33	27.33	14.33	9.67

Concentration exceeds screening value

TABLE 3-5

LEAD DELINEATION SOIL SAMPLING - SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	Human Health	Ecological Risk	X7-SB579		X7-SB580	
SAMPLE ID			**X7-SS579-0001**	**X7-SS579-0102**	**X7-SS580-0001**	**X7-SS580-0102**
SAMPLE DATE			**20120908**	**20120908**	**20120908**	**20120908**
SAMPLE CODE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX			**SO**	**SO**	**SO**	**SO**
SAMPLE TYPE			**NORMAL**	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX			**SS**	**SS**	**SS**	**SS**
TOP DEPTH			**0**	**1**	**0**	**1**
BOTTOM DEPTH			**1**	**2**	**1**	**2**
METALS (MG/KG)						
ALUMINUM	NC	NC	NA	NA	NA	NA
ANTIMONY	NC	NC	NA	NA	NA	NA
ARSENIC	NC	NC	NA	NA	NA	NA
BARIUM	NC	NC	NA	NA	NA	NA
BERYLLIUM	NC	NC	NA	NA	NA	NA
CADMIUM	NC	NC	NA	NA	NA	NA
CALCIUM	NC	NC	NA	NA	NA	NA
CHROMIUM	NC	NC	NA	NA	NA	NA
COBALT	NC	NC	NA	NA	NA	NA
COPPER	NC	NC	NA	NA	NA	NA
IRON	NC	NC	NA	NA	NA	NA
LEAD	400	192	NA	NA	NA	NA
LEAD-CALC	400	192	10	10	10	10
MAGNESIUM	NC	NC	NA	NA	NA	NA
MANGANESE	NC	NC	NA	NA	NA	NA
NICKEL	NC	NC	NA	NA	NA	NA
POTASSIUM	NC	NC	NA	NA	NA	NA
SELENIUM	NC	NC	NA	NA	NA	NA
SILVER	NC	NC	NA	NA	NA	NA
SODIUM	NC	NC	NA	NA	NA	NA
THALLIUM	NC	NC	NA	NA	NA	NA
VANADIUM	NC	NC	NA	NA	NA	NA
ZINC	NC	NC	NA	NA	NA	NA
XRF (MG/KG)						
LEAD	400	192	23	9.33	14.33	6.33

Concentration exceeds screening value

APPENDIX D

CORRELATION OF X-RAY FLUORESCENCE (XRF) FIELD-BASED SOIL-LEAD DATA WITH LABORATORY SOIL-LEAD DATA

FIGURE 1 − CORRELATION ANALYSIS
UXO 7
BASE NAME

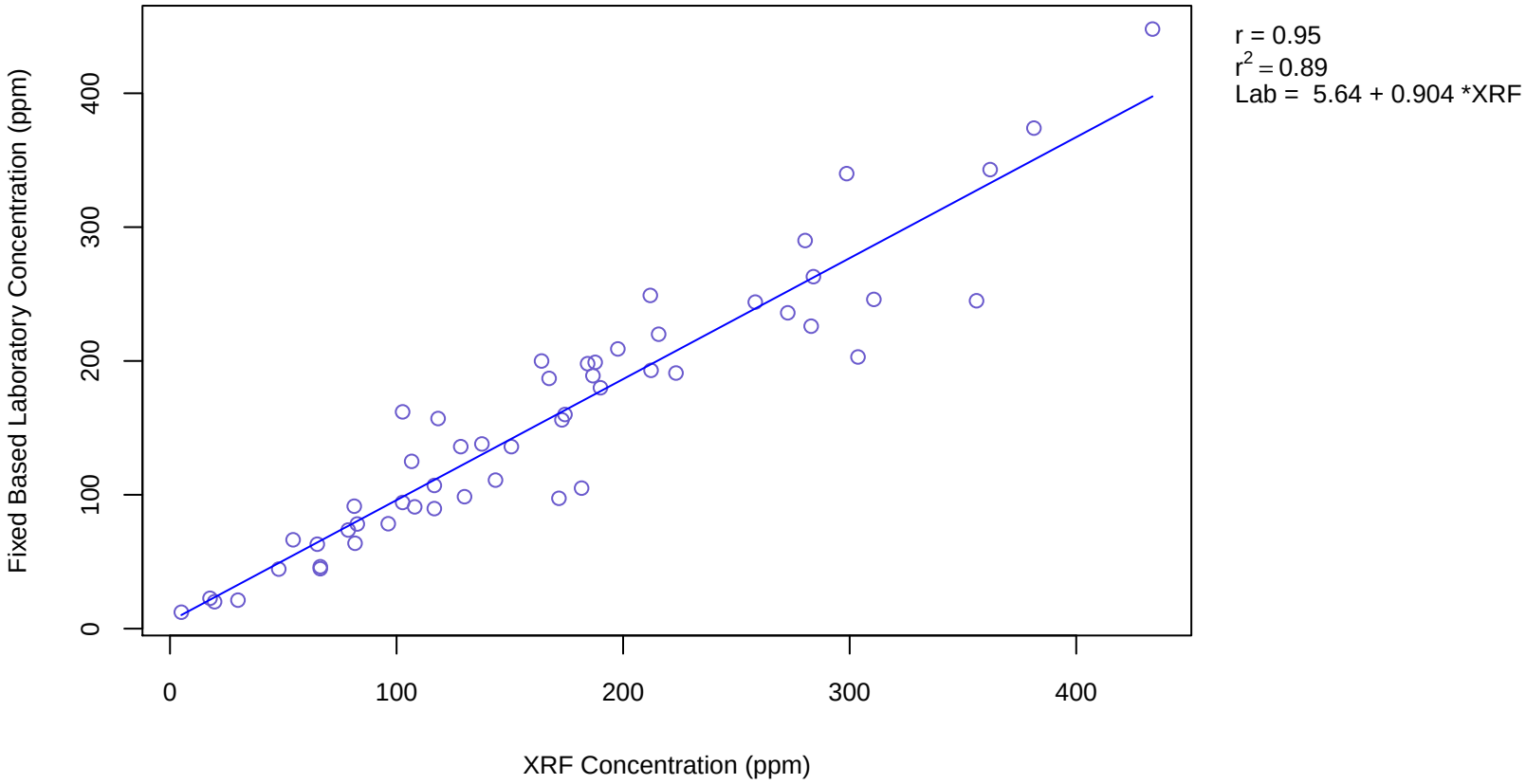


TABLE D-1

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
NORTHERNMOST AREA OF NORTHERN ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Northernmost Area					
X7-SB274	X7-SS274-0001	11/8/2011	734.67	---	670
	X7-SS274-0102	11/8/2011	433.33	---	397
X7-SB275	X7-SS275-0001	11/8/2011	451.00	---	413
	X7-SS275-0102	11/8/2011	675.00	---	616
X7-SB276	X7-SS276-0001	11/8/2011	135.00	---	128
	X7-SS276-0102	11/8/2011	94.33	---	91
X7-SB277	X7-SS277-0001	11/8/2011	416.67	---	382
	X7-SS277-0102	11/8/2011	342.33	---	315
X7-SB278	X7-SS278-0001	11/8/2011	507.00	---	464
	X7-SS278-0102	11/8/2011	342.00	---	315
X7-SB279	X7-SS279-0001	11/8/2011	445.33	---	408
	X7-SS279-0102	11/8/2011	409.67	---	376
	X7-SB279-0203	11/12/2011	19.67	20.1	NA
X7-SB280	X7-SS280-0001	11/8/2011	661.00	---	603
	X7-SS280-0102	11/8/2011	102.67	94.3	NA
X7-SB281	X7-SS281-0001	11/8/2011	669.33	---	611
	X7-SS281-0102	11/8/2011	100.67	---	96.6
X7-SB282	X7-SS282-0001	11/8/2011	611.67	---	559
	X7-SS282-0102	11/8/2011	329.00	---	303
	X7-SB282-0203	11/12/2011	92.00	---	88.8
X7-SB283	X7-SS283-0001	11/8/2011	584.00	---	534
	X7-SS283-0102	11/8/2011	571.67	---	522
X7-SB284	X7-SS284-0001	11/8/2011	550.33	---	503
	X7-SS284-0102	11/8/2011	90.33	---	87.3
X7-SB285	X7-SS285-0001	11/8/2011	427.67	---	392
X7-SB286	X7-SS286-0001	11/8/2011	202.67	---	189
X7-SB287	X7-SS287-0001	11/8/2011	66.33	44.8	NA
X7-SB288	X7-SS288-0001	11/8/2011	81.67	63.8	NA
X7-SB289	X7-SS289-0001	11/8/2011	80.00	---	78.0
X7-SB290	X7-SS290-0001	11/8/2011	151.67	---	143
	X7-SS290-0102	11/8/2011	25.67	---	29
X7-SB321	X7-SS321-0001	11/12/2011	173.00	156	NA
	X7-SS321-0102	11/12/2011	38.00	---	40.0
X7-SB323	X7-SS323-0001	11/12/2011	433.67	448	NA
	X7-SS323-0102	11/12/2011	49.33	---	50.2

TABLE D-1

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
NORTHERNMOST AREA OF NORTHERN ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Northernmost Area					
X7-SB325	X7-SS325-0001	11/12/2011	457.33	---	419
	X7-SS325-0102	11/11/2011	35.00	---	37.3
X7-SB327	X7-SS327-0001	11/12/2011	54.33	66.4	NA
X7-SB329	X7-SS329-0001	11/12/2011	66.33	46.3	NA
X7-SB331	X7-SS331-0001	11/12/2011	137.67	138	NA
	X7-SS331-0102	11/12/2011	37.33	---	39.4
X7-SB333	X7-SS333-0001	11/12/2011	184.33	198	NA
	X7-SS333-0102	11/12/2011	37.33	---	39.4
X7-SB336	X7-SS336-0001	11/12/2011	272.67	236	NA
	X7-SS336-0102	11/12/2011	72.33	---	71.0
X7-SB337	X7-SS337-0001	11/12/2011	65.00	63.1	NA
X7-SB342	X7-SS342-0102	11/12/2011	284.00	263	NA
X7-SB344	X7-SS344-0001	11/12/2011	143.67	111	NA
	X7-SS344-0102	11/12/2011	19.00	---	22.8
X7-SB423	X7-SS423-0001	11/14/2011	298.67	340	NA
	X7-SS423-0102	11/14/2011	22.33	---	25.8
X7-SB424	X7-SS424-0001	11/14/2011	212.33	193	NA
	X7-SS424-0102	11/14/2011	108.00	91	NA
X7-SB425	X7-SS425-0001	11/14/2011	174.33	160	NA
	X7-SS425-0102	11/14/2011	12.00	---	16.5
X7-SB426	X7-SB426-0304	11/14/2011	11.67	---	16.2
X7-SB427	X7-SB427-0304	11/14/2011	17.67	22.7	NA
X7-SB428	X7-SB428-0304	11/14/2011	23.33	---	26.7
X7-SB429	X7-SS429-0001	11/14/2011	106.67	125	NA

X7 = UXO 7
Calc = Calculated value
FBL = Fixed-base laboratory
mg/kg = milligram per kilogram
NA = Not applicable
ppm = parts per million
XRF = X-Ray fluorescence

TABLE D-2

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA OF NORTHENMOST ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Central Area					
X7-SB291	X7-SS291-0001	11/8/2011	1306.00	---	1186
	X7-SS291-0102	11/8/2011	397.00	---	365
	X7-SB291-0203	11/11/2011	303.67	203	NA
X7-SB292	X7-SS292-0001	11/8/2011	244.00	---	226
	X7-SS292-0102	11/8/2011	94.00	---	90.6
X7-SB293	X7-SS293-0001	11/8/2011	73.00	---	71.6
X7-SB294	X7-SS294-0001	11/8/2011	157.00	---	148
	X7-SS294-0102	11/8/2011	62.00	---	61.7
X7-SB295	X7-SS295-0001	11/8/2011	368.67	---	339
	X7-SS295-0102	11/8/2011	420.33	---	386
	X7-SB295-0203	11/11/2011	521.33	---	477
X7-SB296	X7-SS296-0001	11/8/2011	899.00	---	818
	X7-SS296-0102	11/8/2011	330.00	---	304
	X7-SB296-0203	11/11/2011	303.33	---	280
X7-SB297	X7-SS297-0001	11/7/2011	708.33	---	646
	X7-SS297-0102	11/7/2011	398.33	---	366
	X7-SB297-0203	11/11/2011	250.00	---	232
X7-SB298	X7-SS298-0001	11/7/2011	388.00	---	356
	X7-SS298-0102	11/7/2011	452.00	---	414
X7-SB299	X7-SS299-0001	11/7/2011	367.33	---	338
	X7-SS299-0102	11/7/2011	522.33	---	478
	X7-SB299-0203	11/11/2011	128.67	---	122
X7-SB300	X7-SS300-0001	11/7/2011	248.00	---	230
	X7-SS300-0102	11/7/2011	245.67	---	228
X7-SB301	X7-SS301-0001	11/7/2011	175.67	---	164
	X7-SS301-0102	11/7/2011	388.33	---	357
	X7-SB301-0203	11/11/2011	565.67	---	517
X7-SB302	X7-SS302-0001	11/7/2011	169.67	---	159
	X7-SS302-0102	11/7/2011	78.00	---	76.2

TABLE D-2

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA OF NORTHENMOST ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Central Area					
X7-SB303	X7-SS303-0001	11/7/2011	282.67	---	261
	X7-SS303-0102	11/7/2011	582.67	---	532
X7-SB304	X7-SS304-0001	11/7/2011	91.00	---	87.9
X7-SB305	X7-SS305-0001	11/8/2011	338.33	---	311
	X7-SS305-0102	11/8/2011	69.00	---	68.0
X7-SB306	X7-SS306-0001	11/8/2011	529.67	---	484
	X7-SS306-0102	11/8/2011	170.67	---	160
	X7-SB306-0203	11/11/2011	85.00	---	82.5
X7-SB307	X7-SS307-0001	11/8/2011	622.00	---	568
	X7-SS307-0102	11/8/2011	46.33	---	47.5
X7-SB308	X7-SS308-0001	11/7/2011	512.33	---	469
	X7-SS308-0102	11/7/2011	253.33	---	235
	X7-SB308-0203	11/11/2011	20.00	---	23.7
X7-SB345	X7-SS345-0001	11/11/2011	567.00	---	518
	X7-SS345-0102	11/11/2011	96.33	78.4	NA
X7-SB347	X7-SS347-0001	11/11/2011	592.00	---	541
	X7-SS347-0102	11/11/2011	81.33	91.5	NA
X7-SB349	X7-SS349-0001	11/11/2011	177.00	---	166
	X7-SS349-0102	11/11/2011	658.67	---	601
X7-SB351	X7-SS351-0001	11/11/2011	223.33	191	NA
	X7-SS351-0102	11/11/2011	280.33	290	NA
X7-SB353	X7-SS353-0001	11/11/2011	118.33	157	NA
X7-SB355	X7-SS355-0001	11/11/2011	128.33	136	NA
	X7-SS355-0102	11/11/2011	115.00	---	110
X7-SB357	X7-SS357-0001	11/11/2011	444.67	---	408
	X7-SS357-0102	11/11/2011	70.33	---	69.2
X7-SB358	X7-SS358-0001	11/11/2011	403.00	---	370
	X7-SS358-0102	11/11/2011	497.00	---	455
X7-SB360	X7-SS360-0001	11/11/2011	250.67	---	232

TABLE D-2

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA OF NORTHENMOST ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Central Area					
X7-SB360	X7-SS360-0102	11/11/2011	327.33	---	302
X7-SB361	X7-SS361-0001	11/11/2011	325.00	---	299
	X7-SS361-0102	11/11/2011	316.00	---	291
X7-SB363	X7-SS363-0001	11/11/2011	190.00	180	NA
	X7-SS363-0102	11/11/2011	5.00	---	10.2
X7-SB365	X7-SS365-0001	11/11/2011	450.00	---	412
	X7-SS365-0102	11/11/2011	440.00	---	403
X7-SB368	X7-SS368-0001	11/11/2011	200.67	---	187
	X7-SS368-0102	11/11/2011	723.67	---	660
X7-SB369	X7-SS369-0001	11/11/2011	955.00	---	869
	X7-SS369-0102	11/11/2011	356.00	245	NA
X7-SB391	X7-SS391-0001	11/8/2011	161.67	---	152
	X7-SS391-0102	11/8/2011	619.67	---	566
	X7-SB391-0203	11/11/2011	51.67	---	52.3
X7-SB392	X7-SS392-0001	11/8/2011	116.67	107	NA
X7-SB393	X7-SS393-0001	11/8/2011	156.67	---	147
	X7-SS393-0102	11/8/2011	283.00	226	NA
	X7-SB393-0203	11/11/2011	199.67	---	186
X7-SB394	X7-SS394-0001	11/8/2011	151.00	---	142
	X7-SS394-0102	11/8/2011	309.00	---	285
	X7-SB394-0203	11/11/2011	33.00	---	35.5
X7-SB395	X7-SS395-0001	11/8/2011	266.00	---	246
	X7-SS395-0102	11/8/2011	585.67	---	535
	X7-SB395-0203	11/11/2011	348.33	---	321
X7-SB396	X7-SS396-0001	11/8/2011	154.33	---	145
	X7-SS396-0102	11/8/2011	418.00	---	384
	X7-SB396-0203	11/11/2011	329.33	---	303
X7-SB398	X7-SS398-0001	11/11/2011	317.33	---	293
	X7-SS398-0102	11/11/2011	500.67	---	458

TABLE D-2

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA OF NORTHENMOST ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Central Area					
X7-SB400	X7-SS400-0001	11/11/2011	108.67	---	104
X7-SB401	X7-SS401-0001	11/11/2011	171.67	97.4	NA
	X7-SS401-0102	11/11/2011	366.67	---	337
X7-SB402	X7-SS402-0001	11/11/2011	116.67	89.7	NA
X7-SB404	X7-SS404-0001	11/11/2011	317.00	---	292
	X7-SS404-0102	11/11/2011	86.00	---	83.4
X7-SB406	X7-SS406-0001	11/11/2011	82.67	---	80.4
X7-SB407	X7-SS407-0001	11/14/2011	78.67	73.7	NA
X7-SB408	X7-SS408-0001	11/14/2011	310.67	246	NA
	X7-SS408-0102	11/14/2011	29.00	---	31.9
X7-SB409	X7-SB409-0304	11/14/2011	1196.33	---	1087
X7-SB410	X7-SS410-0001	11/14/2011	5.00	12.3	NA
X7-SB411	X7-SB411-0304	11/14/2011	51.33	---	52.0
X7-SB412	X7-SS412-0001	11/14/2011	186.67	189	NA
	X7-SS412-0102	11/14/2011	29.00	---	31.9
X7-SB413	X7-SB413-0304	11/14/2011	955.33	---	869
X7-SB414	X7-SS414-0001	11/14/2011	187.67	199	NA
	X7-SS414-0102	11/14/2011	108.33	---	104
X7-SB415	X7-SS415-0001	11/14/2011	181.67	105	NA
	X7-SS415-0102	11/14/2011	34.00	---	36.4
X7-SB416	X7-SS416-0001	11/14/2011	82.67	78.2	NA
X7-SB417	X7-SB417-0304	11/14/2011	208.00	---	194
	X7-SB417-0405	11/14/2011	170.00	---	159
	X7-SB417-0506	11/14/2011	784.67	---	715
X7-SB418	X7-SS418-0001	11/14/2011	47.33	---	48.4
X7-SB420	X7-SS420-0001	11/14/2011	125.00	---	119
	X7-SS420-0102	11/14/2011	485.67	---	445
	X7-SS420-0203	11/14/2011	78.33	---	76.5
X7-SB421	X7-SS421-0001	11/14/2011	747.33	---	681

TABLE D-2

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA OF NORTHENMOST ZONE
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Central Area					
X7-SB421	X7-SS421-0102	11/14/2011	15.67	---	19.8
X7-SB422	X7-SS422-0001	11/14/2011	434.67	---	399
	X7-SS422-0102	11/14/2011	362.00	343	NA
	X7-SS422-0203	11/14/2011	48.00	44.5	NA

X7 = UXO 7
Calc = Calculated value
FBL = Fixed-base laboratory
mg/kg = milligram per kilogram
NA = Not applicable
ppm = parts per million
XRF = X-Ray fluorescence

TABLE D-3

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Southernmost Area					
X7-SB309	X7-SS309-0001	11/7/2011	66.67	---	65.9
X7-SB310	X7-SS310-0001	11/7/2011	408.00	---	374
	X7-SS310-0102	11/7/2011	381.33	374	NA
	X7-SB310-0203	11/12/2011	197.67	209	NA
X7-SB311	X7-SS311-0001	11/7/2011	91.67	---	88.5
X7-SB312	X7-SS312-0001	11/7/2011	152.00	---	143
	X7-SS312-0102	11/7/2011	212.00	249	NA
X7-SB313	X7-SS313-0001	11/7/2011	167.33	187	NA
	X7-SS313-0102	11/7/2011	215.67	---	201
	X7-SB313-0203	11/12/2011	509.33	---	466
X7-SB314	X7-SS314-0001	11/7/2011	133.00	---	126
	X7-SS314-0102	11/7/2011	192.00	---	179
X7-SB315	X7-SS315-0001	11/7/2011	215.67	220	NA
	X7-SS315-0102	11/7/2011	65.33	---	64.7
X7-SB316	X7-SS316-0001	11/7/2011	350.00	---	322
	X7-SS316-0102	11/7/2011	31.33	---	34.0
X7-SB317	X7-SS317-0001	11/7/2011	76.67	---	74.9
X7-SB318	X7-SS318-0001	11/7/2011	94.33	---	90.9
X7-SB319	X7-SS319-0001	11/7/2011	72.00	---	70.7
X7-SB320	X7-SS320-0001	11/7/2011	302.67	---	279
	X7-SS320-0102	11/7/2011	172.67	---	162
	X7-SB320-0203	11/12/2011	21.33	---	24.9
X7-SB371	X7-SS371-0001	11/12/2011	258.33	244	NA
X7-SB373	X7-SS373-0001	11/12/2011	50.00	---	50.8
X7-SB376	X7-SS376-0001	11/12/2011	197.33	---	184
	X7-SS376-0102	11/12/2011	150.67	136	NA
X7-SB377	X7-SS377-0001	11/12/2011	413.67	---	380
	X7-SS377-0102	11/12/2011	130.00	98.6	NA
X7-SB379	X7-SS379-0001	11/12/2011	48.67	---	49.6
X7-SB383	X7-SS383-0001	11/12/2011	65.00	---	64.4
X7-SB385	X7-SS385-0001	11/12/2011	164.00	200	NA
	X7-SS385-0102	11/12/2011	61.00	---	60.8
X7-SB387	X7-SS387-0001	11/12/2011	79.33	---	77.4
X7-SB430	X7-SB430-0304	11/15/2011	10.67	---	15.3
	X7-SB430-0405	11/15/2011	5.00	---	10.2

TABLE D-3

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Southernmost Area					
	X7-SB430-0506	11/15/2011	5.00	---	10.2
X7-SB431	X7-SB431-0304	11/15/2011	46.00	---	47.2
	X7-SB431-0405	11/15/2011	30.00	21.3	NA
X7-SB432	X7-SB432-0304	11/15/2011	19.67	---	23.4
	X7-SB432-0405	11/15/2011	5.00	---	10.2
X7-SB434	X7-SS434-0001	11/15/2011	102.67	162	NA
	X7-SS434-0102	11/15/2011	26.33	---	29.4

X7 = UXO 7
Calc = Calculated value
FBL = Fixed-base laboratory
mg/kg = milligram per kilogram
NA = Not applicable
ppm = parts per million
XRF = X-Ray fluorescence

Correlation Analysis

Figure 1 is a scatterplot of the XRF lead results and the FBL lead results for each sample. From the scatterplot, a moderate positive linear trend is evident with one outlier present. The correlation between the FBL concentrations and the XRF is 0.60. The correlation always falls between -1 and 1. Values of r near 0 indicate a very weak linear relationship. The strength of the linear relationship increases as r moves away from 0 toward either -1 or 1. Values of r close to -1 and 1 indicate that the points lie close to a straight line. The extreme values -1 and 1 occur only in the case of a perfect linear relationship. So the correlation indicates a moderate linear trend. The R-squared value is 36 percent. This value represents the percent of variation in laboratory lead concentrations that can be explained by the lead XRF concentration. An R-Squared value greater than about 80 percent is considered to indicate a very strong relationship between the two measurement methods. The maximum possible value is 100 percent. Based on the r and R-squared values, XRF concentrations cannot be used to predict FBL concentrations.

Figure 2 is a scatterplot of the XRF lead results and the FBL lead results for each sample with the single outlier removed. From the scatterplot, a moderate positive linear trend is evident. The correlation between the FBL concentrations and the XRF is 0.81. The correlation always falls between -1 and 1. Values of r near 0 indicate a very weak linear relationship. The strength of the linear relationship increases as r moves away from 0 toward either -1 or 1. Values of r close to -1 and 1 indicate that the points lie close to a straight line. The extreme values -1 and 1 occur only in the case of a perfect linear relationship. So the correlation indicates a moderate linear trend. The R-squared value is 66 percent. This value represents the percent of variation in FBL lead concentrations that can be explained by the lead XRF concentration. An R-Squared value greater than about 80 percent is considered to indicate a very strong relationship between the two measurement methods. The maximum possible value is 100 percent. The following equation can be used to transpose the XRF concentrations into FBL concentrations laboratory (mg/kg) = -28.7 * (1.15* XRF Concentration).

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB044	X7-SS044-0102	9/7/2012	254.00	---	263.40
	X7-SB044-0203	9/7/2012	34.00	---	10.40
X7-SB045	X7-SB045-0203	9/7/2012	252.67	---	261.87
	X7-SB045-0304	9/7/2012	370.33	---	397.18
	X7-SB045-0405	9/8/2012	91.33	---	76.33
	X7-SB045-0506	9/8/2012	73.67	---	56.02
X7-SB046	X7-SB046-0203	9/8/2012	693.00	---	768.25
	X7-SB046-0304	9/8/2012	408.00	---	440.50
	X7-SB046-0405	9/10/2012	519.00	---	568.15
	X7-SB046-0506	9/10/2012	62.00	---	42.60
X7-SB181	X7-SB181-0203	9/8/2012	76.33	---	59.08
	X7-SB181-0304	9/8/2012	29.00	---	4.65
X7-SB291	X7-SB291-0304	9/7/2012	344.00	---	366.90
	X7-SB291-0405	9/7/2012	40.67	---	18.07
X7-SB295	X7-SB295-0304	9/8/2012	232.67	246	NA
	X7-SB295-0405	9/8/2012	13.67	---	10.00
X7-SB296	X7-SB296-0304	9/8/2012	504.33	---	551.28
	X7-SB296-0405	9/8/2012	39.67	---	16.92
	X7-SB296-0506	9/10/2012	16.67	---	10.00
	X7-SB296-0607	9/10/2012	12.33	---	10.00
X7-SB297	X7-SB297-0304	9/8/2012	39.00	---	16.15
	X7-SB297-0405	9/8/2012	18.33	---	10.00
X7-SB298	X7-SB298-0203	9/8/2012	182.00	---	180.60
	X7-SB298-0304	9/8/2012	726.33	---	806.58
	X7-SB298-0405	9/9/2012	129.33	142	NA
	X7-SB298-0506	9/9/2012	46.00	---	24.20
X7-SB300	X7-SB300-0203	9/8/2012	99.33	---	85.53
	X7-SB300-0304	9/8/2012	190.33	---	190.18
	X7-SB300-0405	9/10/2012	573.33	---	630.63

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB300-0506	9/10/2012	17.00	---	10.00
X7-SB301	X7-SB301-0304	9/8/2012	285.33	---	299.43
	X7-SB301-0405	9/8/2012	25.33	---	0.43
X7-SB303	X7-SB303-0304	9/8/2012	12.67	---	10.00
	X7-SB303-0405	9/8/2012	42.33	---	19.98
X7-SB349	X7-SB349-0203	9/8/2012	60.00	---	40.30
	X7-SB349-0304	9/8/2012	33.00	---	9.25
X7-SB351	X7-SB351-0203	9/7/2012	496.00	---	541.70
	X7-SB351-0304	9/7/2012	194.33	114	NA
	X7-SB351-0405	9/10/2012	9.33	---	10.00
	X7-SB351-0506	9/10/2012	167.00	128	NA
	X7-SB351-0607	9/11/2012	8.67	---	10.00
	X7-SB351-0708	9/11/2012	5.67	---	10.00
X7-SB358	X7-SB358-0203	9/8/2012	323.33	---	343.13
	X7-SB358-0304	9/8/2012	163.00	---	158.75
	X7-SB358-0405	9/10/2012	272.33	---	284.48
	X7-SB358-0506	9/10/2012	261.33	283	NA
	X7-SB358-0607	9/11/2012	10.00	---	10.00
	X7-SB358-0708	9/11/2012	8.67	---	10.00
X7-SB360	X7-SB360-0203	9/8/2012	1803.00	---	2044.75
	X7-SB360-0304	9/8/2012	101.67	---	88.22
X7-SB361	X7-SB361-0203	9/8/2012	20.33	---	10.00
	X7-SB361-0304	9/8/2012	116.67	---	105.47
X7-SB365	X7-SB365-0203	9/8/2012	12.00	---	10.00
	X7-SB365-0304	9/8/2012	13.67	---	10.00
X7-SB368	X7-SB368-0203	9/9/2012	132.67	87.5	NA
	X7-SB368-0304	9/9/2012	17.00	---	10.00
X7-SB369	X7-SB369-0203	9/8/2012	508.33	---	555.88
	X7-SB369-0304	9/8/2012	612.33	---	675.48
	X7-SB369-0405	9/8/2012	42.33	---	19.98

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB369-0506	9/8/2012	37.67	---	14.62
X7-SB395	X7-SB395-0304	9/8/2012	492.67	---	537.87
	X7-SB395-0405	9/8/2012	245.67	160	NA
	X7-SB395-0506	9/10/2012	8.00	---	10.00
	X7-SB395-0607	9/10/2012	10.00	---	10.00
X7-SB398	X7-SB398-0203	9/7/2012	508.33	---	555.88
	X7-SB398-0304	9/7/2012	280.67	---	294.07
	X7-SB398-0405	9/8/2012	85.33	---	69.43
	X7-SB398-0506	9/8/2012	28.00	---	3.50
X7-SB401	X7-SB401-0203	9/7/2012	19.67	---	10.00
	X7-SB401-0304	9/7/2012	8.67	---	10.00
X7-SB409	X7-SB409-0405	9/7/2012	378.00	---	406.00
	X7-SB409-0506	9/7/2012	22.33	---	10.00
X7-SB417	X7-SB417-0506	9/8/2012	118.67	---	107.77
	X7-SB417-0607	9/8/2012	11.33	---	10.00
X7-SB551	X7-SS551-0001	9/7/2012	401.33	---	432.83
	X7-SS551-0102	9/7/2012	174.67	---	172.17
	X7-SB551-0203	9/7/2012	172.33	---	169.48
	X7-SB551-0304	9/7/2012	241.33	---	248.83
	X7-SB551-0405	9/10/2012	418.33	---	452.38
	X7-SB551-0506	9/10/2012	7.00	---	10.00
X7-SB552	X7-SS552-0001	9/7/2012	44.33	---	22.28
	X7-SS552-0102	9/7/2012	244.67	---	252.67
	X7-SB552-0203	9/7/2012	132.67	---	123.87
	X7-SB552-0304	9/7/2012	253.33	---	262.63
	X7-SB552-0405	9/10/2012	959.33	---	1074.53
	X7-SB552-0506	9/10/2012	5.67	---	10.00
X7-SB553	X7-SS553-0001	9/8/2012	372.00	---	399.10
	X7-SS553-0102	9/8/2012	137.00	---	128.85
	X7-SB553-0203	9/8/2012	118.00	---	107.00

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB553-0304	9/8/2012	48.00	---	26.50
X7-SB554	X7-SS554-0001	9/8/2012	143.67	---	136.52
	X7-SS554-0102	9/8/2012	126.33	---	116.58
	X7-SB554-0203	9/8/2012	1188.00	---	1337.50
	X7-SB554-0304	9/8/2012	137.67	---	129.62
	X7-SB554-0405	9/10/2012	52.67	---	31.87
	X7-SB554-0506	9/10/2012	11.00	---	10.00
X7-SB555	X7-SS555-0001	9/8/2012	101.33	---	87.83
	X7-SS555-0102	9/8/2012	491.33	---	536.33
	X7-SB555-0203	9/8/2012	119.33	---	108.53
	X7-SB555-0304	9/8/2012	23.00	---	10.00
X7-SB556	X7-SS556-0001	9/8/2012	349.33	---	373.03
	X7-SS556-0102	9/8/2012	1974.67	---	2242.17
	X7-SB556-0203	9/8/2012	296.67	---	312.47
	X7-SB556-0304	9/8/2012	276.33	---	289.08
	X7-SB556-0405	9/10/2012	192.67	---	192.87
	X7-SB556-0506	9/10/2012	634.33	---	700.78
	X7-SB556-0607	9/11/2012	119.00	---	108.15
	X7-SB556-0708	9/11/2012	45.00	---	23.05
X7-SB557	X7-SS557-0001	9/8/2012	281.67	---	295.22
	X7-SS557-0102	9/8/2012	387.00	---	416.35
	X7-SB557-0203	9/8/2012	741.33	---	823.83
	X7-SB557-0304	9/8/2012	1707.67	---	1935.12
	X7-SB557-0405	9/10/2012	34.00	---	10.40
	X7-SB557-0506	9/10/2012	27.00	---	2.35
X7-SB558	X7-SS558-0001	9/8/2012	500.67	---	547.07
	X7-SS558-0102	9/8/2012	216.33	---	220.08
	X7-SB558-0203	9/8/2012	87.67	---	72.12
	X7-SB558-0304	9/8/2012	1650.00	---	1868.80
	X7-SB558-0405	9/10/2012	13.00	---	10.00

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB558-0506	9/10/2012	188.67	217	NA
	X7-SB558-0607	9/10/2012	38.00	---	15.00
	X7-SB558-0708	9/10/2012	24.00	---	10.00
X7-SB559	X7-SS559-0001	9/8/2012	430.00	---	465.80
	X7-SS559-0102	9/8/2012	918.67	---	1027.77
	X7-SB559-0203	9/8/2012	59.00	---	39.15
	X7-SB559-0304	9/8/2012	11.67	---	10.00
X7-SB560	X7-SS560-0001	9/8/2012	342.67	---	365.37
	X7-SS560-0102	9/8/2012	741.33	---	823.83
	X7-SB560-0203	9/8/2012	139.00	---	131.15
	X7-SB560-0304	9/8/2012	57.67	---	37.62
X7-SB561	X7-SS561-0001	9/8/2012	212.00	---	215.10
	X7-SS561-0102	9/8/2012	111.33	---	99.33
	X7-SB561-0203	9/8/2012	173.33	144	NA
	X7-SB561-0304	9/8/2012	12.33	---	10.00
	X7-SB561-0405	9/10/2012	12.67	---	10.00
X7-SB562	X7-SS562-0001	9/8/2012	366.67	---	392.97
	X7-SS562-0102	9/8/2012	360.33	---	385.68
	X7-SB562-0203	9/8/2012	175.67	---	173.32
	X7-SB562-0304	9/8/2012	12.00	---	10.00
X7-SB563	X7-SS563-0001	9/8/2012	228.67	195	NA
	X7-SS563-0102	9/8/2012	13.67	---	10.00
	X7-SB563-0203	9/8/2012	12.67	---	10.00
	X7-SB563-0304	9/8/2012	11.33	---	10.00
X7-SB564	X7-SS564-0001	9/8/2012	217.67	---	221.62
	X7-SS564-0102	9/8/2012	56.33	---	36.08
	X7-SB564-0203	9/8/2012	7.33	---	10.00
	X7-SB564-0304	9/8/2012	7.67	---	10.00
	X7-SS565-0001	9/7/2012	1814.33	---	2057.78
	X7-SS565-0102	9/7/2012	4444.00	---	5081.90

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB565	X7-SB565-0203	9/7/2012	865.00	---	966.05
	X7-SB565-0304	9/7/2012	21.33	---	10.00
	X7-SB565-0405	9/10/2012	32.33	---	8.48
	X7-SB565-0506	9/10/2012	14.33	---	10.00
X7-SB566	X7-SS566-0001	9/7/2012	717.33	---	796.23
	X7-SS566-0102	9/7/2012	319.00	---	338.15
	X7-SB566-0203	9/7/2012	1526.67	---	1726.97
	X7-SB566-0304	9/7/2012	70.33	---	52.18
	X7-SB566-0405	9/11/2012	27.67	---	3.12
X7-SB581	X7-SS581-0001	9/7/2012	353.33	---	377.63
	X7-SS581-0102	9/7/2012	20.00	---	10.00
X7-SB582	X7-SS582-0001	9/7/2012	927.00	---	1037.35
	X7-SS582-0102	9/7/2012	3506.00	---	4003.20
	X7-SB582-0203	9/7/2012	2036.67	---	2313.47
	X7-SB582-0304	9/7/2012	205.00	---	207.05
	X7-SB582-0405	9/10/2012	31.67	---	7.72
	X7-SB582-0506	9/10/2012	16.33	---	10.00
X7-SB583	X7-SS583-0001	9/7/2012	3583.33	---	4092.13
	X7-SS583-0102	9/7/2012	2134.33	---	2425.78
	X7-SB583-0203	9/7/2012	1631.67	---	1847.72
	X7-SB583-0304	9/7/2012	12.00	---	10.00
	X7-SB583-0405	9/10/2012	9.00	---	10.00
	X7-SB583-0506	9/10/2012	13.00	---	10.00
X7-SB584	X7-SS584-0001	9/7/2012	204.00	242	NA
	X7-SS584-0102	9/7/2012	6.33	---	10.00
	X7-SB584-0203	9/10/2012	3.00	---	10.00
	X7-SB584-0304	9/10/2012	8.00	---	10.00
X7-SB585	X7-SS585-0001	9/7/2012	177.33	---	175.23
	X7-SS585-0102	9/7/2012	10.33	---	10.00
X7-SB586	X7-SS586-0001	9/10/2012	360.67	---	386.07

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB586	X7-SS586-0102	9/10/2012	177.33	204	NA
X7-SB587	X7-SS587-0001	9/10/2012	137.67	138	NA
	X7-SS587-0102	9/10/2012	112.33	---	100.48
X7-SB588	X7-SS588-0001	9/10/2012	137.67	---	129.62
	X7-SS588-0102	9/10/2012	112.33	---	100.48
X7-SB589	X7-SS589-0001	9/10/2012	381.00	---	409.45
	X7-SS589-0102	9/10/2012	28.33	---	3.88
	X7-SB589-0203	9/10/2012	233.33	---	239.63
	X7-SB589-0304	9/10/2012	280.00	---	293.30
X7-SB590	X7-SS590-0001	9/10/2012	167.00	---	163.35
	X7-SS590-0102	9/10/2012	33.67	---	10.02
X7-SB591	X7-SS591-0001	9/10/2012	175.67	---	173.32
	X7-SS591-0102	9/10/2012	777.33	---	865.23
	X7-SB591-0203	9/10/2012	305.33	---	322.43
	X7-SB591-0304	9/10/2012	333.67	---	355.02
X7-SB592	X7-SS592-0001	9/10/2012	226.00	---	231.20
	X7-SS592-0102	9/10/2012	288.00	---	302.50
	X7-SB592-0203	9/10/2012	387.00	---	416.35
	X7-SB592-0304	9/10/2012	476.67	---	519.47
	X7-SB592-0405	9/10/2012	1243.00	---	1400.75
	X7-SB592-0506	9/10/2012	202.00	240	NA
	X7-SB592-0607	9/11/2012	45.00	---	23.05
	X7-SB592-0708	9/11/2012	12.33	---	10.00
X7-SB593	X7-SS593-0001	9/10/2012	487.00	---	531.35
	X7-SS593-0102	9/10/2012	367.33	---	393.73
	X7-SB593-0203	9/10/2012	13.33	---	10.00
	X7-SB593-0304	9/10/2012	108.00	19.6	NA
X7-SB594	X7-SS594-0001	9/10/2012	262.00	---	272.60
	X7-SS594-0102	9/10/2012	440.00	---	477.30
	X7-SB594-0203	9/10/2012	633.00	---	699.25

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB594-0304	9/10/2012	93.00	---	78.25
X7-SB595	X7-SS595-0001	9/10/2012	157.67	157	NA
	X7-SS595-0102	9/10/2012	8.00	---	10.00
X7-SB596	X7-SS596-0001	9/10/2012	12.00	---	10.00
	X7-SS596-0102	9/10/2012	9.00	---	10.00
X7-SB597	X7-SS597-0001	9/10/2012	102.67	---	89.37
	X7-SS597-0102	9/10/2012	7.67	---	10.00
X7-SB598	X7-SS598-0001	9/10/2012	43.33	---	21.13
	X7-SS598-0102	9/10/2012	15.33	---	10.00
X7-SB599	X7-SS599-0001	9/10/2012	15.33	---	10.00
	X7-SS599-0102	9/10/2012	7.00	---	10.00
X7-SB600	X7-SS600-0001	9/10/2012	30.67	---	6.57
	X7-SS600-0102	9/10/2012	10.33	---	10.00
X7-SB601	X7-SS601-0001	9/10/2012	1449.67	---	1638.42
	X7-SS601-0102	9/10/2012	1885.33	---	2139.43
	X7-SB601-0203	9/10/2012	522.00	---	571.60
	X7-SB601-0304	9/10/2012	31.33	---	7.33
X7-SB602	X7-SS602-0001	9/10/2012	123.67	---	113.52
	X7-SS602-0102	9/10/2012	270.00	---	281.80
	X7-SB602-0203	9/10/2012	137.00	---	128.85
	X7-SB602-0304	9/10/2012	68.00	---	49.50
X7-SB603	X7-SS603-0001	9/10/2012	86.33	---	70.58
	X7-SS603-0102	9/10/2012	262.00	---	272.60
	X7-SB603-0203	9/10/2012	290.67	---	305.57
	X7-SB603-0304	9/10/2012	470.33	---	512.18
	X7-SB603-0405	9/11/2012	8.00	---	10.00
	X7-SB603-0506	9/11/2012	5.33	---	10.00
X7-SB604	X7-SS604-0001	9/10/2012	70.33	---	52.18
	X7-SS604-0102	9/10/2012	346.33	---	369.58
	X7-SB604-0203	9/10/2012	345.00	---	368.05

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB604-0304	9/10/2012	11.33	---	10.00
X7-SB605	X7-SS605-0001	9/10/2012	2129.67	---	2420.42
	X7-SS605-0102	9/10/2012	4607.67	---	5270.12
	X7-SB605-0203	9/10/2012	6756.67	---	7741.47
	X7-SB605-0304	9/10/2012	55.00	---	34.55
X7-SB606	X7-SS606-0001	9/10/2012	7.00	---	10.00
	X7-SS606-0102	9/10/2012	8.00	---	10.00
X7-SB610	X7-SS610-0001	9/11/2012	1463.33	---	1654.13
	X7-SS610-0102	9/11/2012	119.67	---	108.92
	X7-SB610-0203	9/11/2012	29.00	---	4.65
X7-SB611	X7-SS611-0001	9/11/2012	1601.67	---	1813.22
	X7-SS611-0102	9/11/2012	2053.00	---	2332.25
	X7-SB611-0203	9/11/2012	234.00	207	NA
	X7-SB611-0304	9/11/2012	37.33	---	14.23
	X7-SB611-0405	9/11/2012	54.00	---	33.40
X7-SB612	X7-SS612-0001	9/11/2012	301.00	---	317.45
	X7-SS612-0102	9/11/2012	298.33	---	314.38
	X7-SB612-0203	9/11/2012	477.67	---	520.62
	X7-SB612-0304	9/11/2012	22.67	---	10.00
X7-SB613	X7-SS613-0001	9/11/2012	198.67	---	199.77
	X7-SS613-0102	9/11/2012	262.33	---	272.98
	X7-SB613-0203	9/11/2012	13.33	---	10.00
	X7-SB613-0304	9/11/2012	6.67	---	10.00
X7-SB614	X7-SS614-0001	9/11/2012	119.00	---	108.15
	X7-SS614-0102	9/11/2012	43.67	---	21.52
X7-SB615	X7-SS615-0001	9/11/2012	317.00	---	335.85
	X7-SS615-0102	9/11/2012	128.67	---	119.27
	X7-SB615-0203	9/11/2012	45.33	---	23.43
	X7-SB615-0304	9/11/2012	143.67	123	NA
	X7-SS616-0001	9/11/2012	214.67	---	218.17

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB616	X7-SS616-0102	9/11/2012	284.00	---	297.90
	X7-SB616-0203	9/11/2012	5.67	---	10.00
	X7-SB616-0304	9/11/2012	16.00	---	10.00
X7-SB617	X7-SS617-0001	9/11/2012	118.00	---	107.00
	X7-SS617-0102	9/11/2012	11.00	---	10.00
X7-SB618	X7-SS618-0001	9/11/2012	8.67	---	10.00
	X7-SS618-0102	9/11/2012	5.33	---	10.00
	X7-SS618-0203	9/11/2012	12.00	---	10.00
X7-SB619	X7-SS619-0001	9/11/2012	803.33	---	895.13
	X7-SS619-0102	9/11/2012	2227.33	---	2532.73
	X7-SB619-0203	9/11/2012	2609.67	---	2972.42
	X7-SB619-0304	9/11/2012	960.00	---	1075.30
	X7-SB619-0405	9/11/2012	12.00	---	10.00
	X7-SB619-0506	9/11/2012	29.00	---	4.65
X7-SB620	X7-SS620-0001	9/11/2012	2098.00	---	2384.00
	X7-SS620-0102	9/11/2012	882.67	---	986.37
	X7-SB620-0203	9/11/2012	111.33	161	NA
	X7-SB620-0304	9/11/2012	20.33	---	10.00
X7-SB621	X7-SS621-0001	9/11/2012	306.67	---	323.97
	X7-SS621-0102	9/11/2012	176.00	154	NA
	X7-SB621-0203	9/11/2012	466.67	---	507.97
	X7-SB621-0304	9/11/2012	13.00	---	10.00
X7-SB622	X7-SS622-0001	9/11/2012	111.00	---	98.95
	X7-SS622-0102	9/11/2012	366.67	---	392.97
	X7-SB622-0203	9/11/2012	348.67	---	372.27
	X7-SB622-0304	9/11/2012	37.00	---	13.85
X7-SB623	X7-SS623-0001	9/11/2012	60.00	---	40.30
	X7-SS623-0102	9/11/2012	14.33	---	10.00
	X7-SS624-0001	9/11/2012	240.67	334	NA
	X7-SS624-0102	9/11/2012	1020.67	---	1145.07

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB624	X7-SB624-0203	9/11/2012	4049.33	---	4628.03
	X7-SB624-0304	9/11/2012	2478.00	---	2821.00
	X7-SB624-0405	10/3/2012	1889.67	---	2144.42
	X7-SB624-0506	10/3/2012	16.67	---	10.00
	X7-SB624-0607	10/3/2012	11.67	---	10.00
	X7-SB624-0708	10/3/2012	16.33	---	10.00
X7-SB625	X7-SS625-0001	9/11/2012	421.00	---	455.45
	X7-SS625-0102	9/11/2012	1004.33	---	1126.28
	X7-SB625-0203	9/11/2012	445.33	---	483.43
	X7-SB625-0304	9/11/2012	613.67	---	677.02
	X7-SB625-0405	10/3/2012	36.33	---	13.08
	X7-SB625-0506	10/3/2012	12.67	---	10.00
	X7-SB625-0607	10/3/2012	12.00	---	10.00
X7-SB626	X7-SS626-0001	9/11/2012	135.00	148	NA
	X7-SS626-0102	9/11/2012	14.67	---	10.00
	X7-SB626-0203	9/11/2012	8.33	---	10.00
	X7-SB626-0304	9/11/2012	13.33	---	10.00
X7-SB627	X7-SS627-0001	9/11/2012	117.00	---	105.85
	X7-SS627-0102	9/11/2012	163.00	142	NA
	X7-SB627-0203	9/11/2012	13.00	---	10.00
	X7-SB627-0304	9/11/2012	13.33	---	10.00
X7-SB628	X7-SS628-0001	9/11/2012	55.67	---	35.32
	X7-SS628-0102	9/11/2012	63.33	---	44.13
X7-SB629	X7-SS629-0001	10/3/2012	408.33	---	440.88
	X7-SS629-0102	10/3/2012	737.00	---	818.85
	X7-SB629-0203	10/3/2012	993.33	---	1113.63
	X7-SB629-0304	10/3/2012	1448.00	---	1636.50
	X7-SB629-0405	10/6/2012	22.00	---	10.00
	X7-SB629-0506	10/6/2012	14.00	---	10.00
	X7-SS630-0001	10/3/2012	3067.67	---	3499.12

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB630	X7-SS630-0102	10/3/2012	54.00	---	33.40
	X7-SB630-0203	10/3/2012	14.00	---	10.00
	X7-SB630-0304	10/3/2012	10.33	---	10.00
X7-SB631	X7-SS631-0001	10/3/2012	24.00	---	10.00
	X7-SS631-0102	10/3/2012	14.00	---	10.00
	X7-SB631-0203	10/3/2012	12.00	---	10.00
X7-SB632	X7-SS632-0001	10/3/2012	1553.67	---	1758.02
	X7-SS632-0102	10/3/2012	2847.67	---	3246.12
	X7-SB632-0203	10/3/2012	2562.00	---	2917.60
	X7-SB632-0304	10/3/2012	4143.00	---	4735.75
	X7-SB632-0405	10/3/2012	352.33	---	376.48
	X7-SB632-0506	10/3/2012	15.00	---	10.00
X7-SB633	X7-SS633-0001	10/3/2012	5245.33	---	6003.43
	X7-SS633-0102	10/3/2012	83.67	---	67.52
	X7-SB633-0203	10/3/2012	51.33	---	30.33
	X7-SB633-0304	10/3/2012	34.33	---	10.78
X7-SB634	X7-SS634-0001	10/3/2012	1357.00	---	1531.85
	X7-SS634-0102	10/3/2012	2058.33	---	2338.38
	X7-SB634-0203	10/3/2012	3491.67	---	3986.72
	X7-SB634-0304	10/3/2012	17.33	---	10.00
X7-SB635	X7-SS635-0001	10/3/2012	2262.00	---	2572.60
	X7-SS635-0102	10/3/2012	4326.00	---	4946.20
	X7-SB635-0203	10/3/2012	5076.00	---	5808.70
	X7-SB635-0304	10/3/2012	85.00	---	69.05
	X7-SB635-0405	10/3/2012	3507.67	---	4005.12
	X7-SB635-0506	10/3/2012	15.33	---	10.00
X7-SB636	X7-SS636-0001	10/3/2012	844.33	---	942.28
	X7-SS636-0102	10/3/2012	3255.33	---	3714.93
	X7-SB636-0203	10/3/2012	2149.00	---	2442.65
	X7-SB636-0304	10/3/2012	163.67	---	159.52

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB637	X7-SS637-0001	10/3/2012	1819.33	---	2063.53
	X7-SS637-0102	10/3/2012	542.00	---	594.60
	X7-SB637-0203	10/3/2012	1594.00	---	1804.40
	X7-SB637-0304	10/3/2012	190.00	---	189.80
	X7-SB637-0405	10/6/2012	22.33	---	10.00
	X7-SB637-0506	10/6/2012	17.00	---	10.00
X7-SB638	X7-SS638-0001	10/3/2012	295.00	---	310.55
	X7-SS638-0102	10/3/2012	242.67	---	250.37
	X7-SB638-0203	10/3/2012	428.00	---	463.50
	X7-SB638-0304	10/3/2012	522.00	---	571.60
	X7-SB638-0405	10/6/2012	239.00	328	NA
	X7-SB638-0506	10/6/2012	36.67	---	13.47
X7-SB639	X7-SS639-0001	10/3/2012	876.67	---	979.47
	X7-SS639-0102	10/3/2012	1659.67	---	1879.92
	X7-SB639-0203	10/3/2012	1479.33	---	1672.53
	X7-SB639-0304	10/3/2012	73.00	---	55.25
X7-SB640	X7-SS640-0001	10/3/2012	297.00	---	312.85
	X7-SS640-0102	10/3/2012	1344.67	---	1517.67
	X7-SB640-0203	10/3/2012	402.33	---	433.98
	X7-SB640-0304	10/3/2012	17.33	---	10.00
X7-SB641	X7-SS641-0001	10/3/2012	91.33	---	76.33
	X7-SS641-0102	10/3/2012	369.00	---	395.65
	X7-SB641-0203	10/3/2012	264.33	---	275.28
	X7-SB641-0304	10/3/2012	20.00	---	10.00
X7-SB642	X7-SS642-0001	10/3/2012	225.67	---	230.82
	X7-SS642-0102	10/3/2012	134.33	---	125.78
	X7-SB642-0203	10/3/2012	313.00	---	331.25
	X7-SB642-0304	10/3/2012	16.67	---	10.00
X7-SB643	X7-SS643-0001	10/3/2012	180.33	166	NA
	X7-SS643-0102	10/3/2012	123.00	---	112.75

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB643	X7-SB643-0203	10/3/2012	79.67	---	62.92
	X7-SB643-0304	10/3/2012	19.67	---	10.00
X7-SB644	X7-SS644-0001	10/3/2012	251.00	---	259.95
	X7-SS644-0102	10/3/2012	255.00	---	264.55
	X7-SB644-0203	10/3/2012	851.33	---	950.33
	X7-SB644-0304	10/3/2012	17.33	---	10.00
X7-SB645	X7-SS645-0001	10/3/2012	115.00	---	103.55
	X7-SS645-0102	10/3/2012	302.33	---	318.98
	X7-SB645-0203	10/3/2012	38.33	---	15.38
	X7-SB645-0304	10/3/2012	16.67	---	10.00
X7-SB646	X7-SS646-0001	10/3/2012	103.33	---	90.13
	X7-SS646-0102	10/3/2012	170.33	178	NA
	X7-SB646-0203	10/3/2012	30.00	---	5.80
	X7-SB646-0304	10/3/2012	21.00	---	10.00
X7-SB647	X7-SS647-0001	10/3/2012	131.33	---	122.33
	X7-SS647-0102	10/3/2012	542.00	---	594.60
	X7-SB647-0203	10/3/2012	21.67	---	10.00
	X7-SB647-0304	10/3/2012	21.67	---	10.00
X7-SB648	X7-SS648-0001	10/3/2012	160.00	---	155.30
	X7-SS648-0102	10/3/2012	395.00	---	425.55
	X7-SB648-0203	10/3/2012	26.33	---	1.58
	X7-SB648-0304	10/3/2012	13.67	---	10.00
X7-SB649	X7-SS649-0001	10/3/2012	152.00	---	146.10
	X7-SS649-0102	10/3/2012	302.00	---	318.60
	X7-SB649-0203	10/3/2012	26.00	---	1.20
	X7-SB649-0304	10/3/2012	22.00	---	10.00
X7-SB650	X7-SS650-0001	10/3/2012	122.67	---	112.37
	X7-SS650-0102	10/3/2012	34.33	---	10.78
	X7-SB650-0203	10/3/2012	13.33	---	10.00
	X7-SS651-0001	10/3/2012	114.33	---	102.78

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB651	X7-SS651-0102	10/3/2012	126.67	116	NA
	X7-SB651-0203	10/3/2012	54.00	---	33.40
	X7-SB651-0304	10/3/2012	20.00	---	10.00
X7-SB652	X7-SS652-0001	10/3/2012	195.33	189	NA
	X7-SS652-0102	10/3/2012	17.67	---	10.00
	X7-SB652-0203	10/3/2012	17.67	---	10.00
X7-SB653	X7-SS653-0001	10/3/2012	129.33	---	120.03
	X7-SS653-0102	10/3/2012	64.00	---	44.90
	X7-SB653-0203	10/3/2012	109.67	---	97.42
	X7-SB653-0304	10/3/2012	18.00	---	10.00
X7-SB654	X7-SS654-0001	10/3/2012	63.33	---	44.13
	X7-SS654-0102	10/3/2012	106.33	---	93.58
	X7-SB654-0203	10/3/2012	35.67	---	12.32
	X7-SB654-0304	10/3/2012	14.67	---	10.00
X7-SB655	X7-SS655-0001	10/3/2012	186.67	---	185.97
	X7-SS655-0102	10/3/2012	616.00	---	679.70
	X7-SB655-0203	10/3/2012	108.33	---	95.88
	X7-SB655-0304	10/3/2012	19.67	---	10.00
X7-SB656	X7-SS656-0001	10/3/2012	130.33	128	NA
	X7-SS656-0102	10/3/2012	145.33	137	NA
	X7-SB656-0203	10/3/2012	17.00	---	10.00
	X7-SB656-0304	10/3/2012	17.67	---	10.00
X7-SB657	X7-SS657-0001	10/3/2012	412.67	---	445.87
	X7-SS657-0102	10/3/2012	170.00	---	166.80
	X7-SB657-0203	10/3/2012	269.67	---	281.42
	X7-SB657-0304	10/3/2012	344.33	---	367.28
	X7-SB657-0405	10/6/2012	69.67	---	51.42
	X7-SB657-0506	10/6/2012	17.00	---	10.00
X7-SB658	X7-SS658-0001	10/3/2012	607.33	---	669.73
	X7-SS658-0102	10/3/2012	1250.67	---	1409.57

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB658	X7-SB658-0203	10/3/2012	53.33	---	32.63
	X7-SB658-0304	10/3/2012	56.33	---	36.08
X7-SB659	X7-SS659-0001	10/3/2012	171.33	227	NA
	X7-SS659-0102	10/3/2012	94.67	---	80.17
	X7-SB659-0203	10/3/2012	12.67	---	10.00
X7-SB660	X7-SS660-0001	10/3/2012	261.67	---	272.22
	X7-SS660-0102	10/3/2012	1695.00	---	1920.55
	X7-SB660-0203	10/3/2012	12.67	---	10.00
	X7-SB660-0304	10/3/2012	14.33	---	10.00
X7-SB661	X7-SS661-0001	10/3/2012	169.67	164	NA
	X7-SS661-0102	10/3/2012	12.33	---	10.00
	X7-SB661-0203	10/3/2012	13.33	---	10.00
X7-SB662	X7-SS662-0001	10/3/2012	224.00	779	NA
	X7-SS662-0102	10/3/2012	12.00	---	10.00
	X7-SB662-0203	10/3/2012	17.67	---	10.00
X7-SB663	X7-SS663-0001	10/3/2012	224.00	---	228.90
	X7-SS663-0102	10/3/2012	12.00	---	10.00
	X7-SB663-0203	10/3/2012	17.67	---	10.00
X7-SB664	X7-SS664-0001	10/4/2012	10.00	---	10.00
	X7-SS664-0102	10/4/2012	11.00	---	10.00
X7-SB665	X7-SS665-0001	10/4/2012	12.67	---	10.00
	X7-SS665-0102	10/4/2012	13.00	---	10.00
X7-SB666	X7-SS666-0001	10/4/2012	11.00	---	10.00
	X7-SS666-0102	10/4/2012	18.00	---	10.00
X7-SB667	X7-SS667-0001	10/4/2012	58.00	---	38.00
	X7-SS667-0102	10/4/2012	851.33	---	950.33
	X7-SB667-0203	10/4/2012	18.67	---	10.00
	X7-SB667-0304	10/4/2012	21.67	---	10.00
X7-SB668	X7-SS668-0001	10/4/2012	229.00	225	NA
	X7-SS668-0102	10/4/2012	186.67	182	NA

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB668-0203	10/4/2012	15.67	---	10.00
	X7-SB668-0304	10/4/2012	22.67	---	10.00
X7-SB669	X7-SS669-0001	10/4/2012	327.67	---	348.12
	X7-SS669-0102	10/4/2012	26.67	---	1.97
	X7-SB669-0203	10/4/2012	23.00	---	10.00
	X7-SB669-0304	10/4/2012	16.67	---	10.00
X7-SB670	X7-SS670-0001	10/4/2012	2472.33	---	2814.48
	X7-SS670-0102	10/4/2012	2997.67	---	3418.62
	X7-SB670-0203	10/4/2012	14.33	---	10.00
	X7-SB670-0304	10/4/2012	19.67	---	10.00
X7-SB671	X7-SS671-0001	10/4/2012	2600.33	---	2961.68
	X7-SS671-0102	10/4/2012	28.00	---	3.50
	X7-SB671-0203	10/4/2012	11.67	---	10.00
X7-SB672	X7-SS672-0001	10/4/2012	426.33	---	461.58
	X7-SS672-0102	10/4/2012	13.67	---	10.00
	X7-SB672-0203	10/4/2012	16.67	---	10.00
X7-SB673	X7-SS673-0001	10/4/2012	1728.67	---	1959.27
	X7-SS673-0102	10/4/2012	17.33	---	10.00
	X7-SB673-0203	10/4/2012	14.33	---	10.00
X7-SB674	X7-SS674-0001	10/4/2012	761.00	---	846.45
	X7-SS674-0102	10/4/2012	38.67	---	15.77
	X7-SB674-0203	10/4/2012	14.67	---	10.00
X7-SB675	X7-SS675-0001	10/4/2012	777.67	---	865.62
	X7-SS675-0102	10/4/2012	488.00	---	532.50
	X7-SB675-0203	10/4/2012	29.67	---	5.42
	X7-SB675-0304	10/4/2012	16.33	---	10.00
X7-SB676	X7-SS676-0001	10/4/2012	875.00	---	977.55
	X7-SS676-0102	10/4/2012	382.67	---	411.37
	X7-SB676-0203	10/4/2012	17.67	---	10.00
	X7-SB676-0304	10/4/2012	18.67	---	10.00

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB677	X7-SS677-0001	10/4/2012	365.00	---	391.05
	X7-SS677-0102	10/4/2012	672.00	---	744.10
	X7-SB677-0203	10/4/2012	985.33	---	1104.43
	X7-SB677-0304	10/4/2012	33.00	---	9.25
X7-SB678	X7-SS678-0001	10/4/2012	118.33	---	107.38
	X7-SS678-0102	10/4/2012	450.00	---	488.80
	X7-SB678-0203	10/4/2012	23.00	---	10.00
	X7-SB678-0304	10/4/2012	15.00	---	10.00
X7-SB679	X7-SS679-0001	10/6/2012	230.33	---	236.18
	X7-SS679-0102	10/6/2012	519.33	---	568.53
	X7-SB679-0203	10/6/2012	41.33	---	18.83
	X7-SB679-0304	10/6/2012	18.33	---	10.00
X7-SB680	X7-SS680-0001	10/6/2012	147.33	159	NA
	X7-SS680-0102	10/6/2012	228.33	249	NA
	X7-SB680-0203	10/6/2012	18.67	---	10.00
	X7-SB680-0304	10/6/2012	11.33	---	10.00
X7-SB681	X7-SS681-0001	10/6/2012	139.00	152	NA
	X7-SS681-0102	10/6/2012	50.67	---	29.57
	X7-SB681-0203	10/6/2012	16.67	---	10.00
X7-SB682	X7-SS682-0001	10/6/2012	168.00	161	NA
	X7-SS682-0102	10/6/2012	16.33	---	10.00
	X7-SB682-0203	10/6/2012	18.33	---	10.00
X7-SB683	X7-SS683-0001	10/6/2012	86.33	---	70.58
	X7-SS683-0102	10/6/2012	18.67	---	10.00
X7-SB684	X7-SS684-0001	10/4/2012	11.33	---	10.00
	X7-SS684-0102	10/4/2012	13.00	---	10.00
X7-SB685	X7-SS685-0001	10/4/2012	12.67	---	10.00
	X7-SS685-0102	10/4/2012	15.00	---	10.00
X7-SB686	X7-SS686-0001	10/4/2012	415.33	---	448.93
	X7-SS686-0102	10/4/2012	94.67	---	80.17

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
	X7-SB686-0203	10/4/2012	31.33	---	7.33
X7-SB687	X7-SS687-0001	10/4/2012	246.33	262	NA
	X7-SS687-0102	10/4/2012	105.00	---	92.05
	X7-SB687-0203	10/4/2012	15.67	---	10.00
X7-SB688	X7-SS688-0001	10/8/2012	15.00	---	10.00
	X7-SS688-0102	10/8/2012	28.00	---	3.50
X7-SB689	X7-SS689-0001	10/8/2012	17.00	---	10.00
	X7-SS689-0102	10/8/2012	21.00	---	10.00
	X7-SB689-0203	10/8/2012	21.67	---	10.00
X7-SB690	X7-SS690-0001	10/8/2012	20.67	---	10.00
	X7-SS690-0102	10/8/2012	50.67	---	29.57
X7-SB691	X7-SS691-0001	10/8/2012	23.67	---	10.00
	X7-SS691-0102	10/8/2012	303.67	---	320.52
	X7-SB691-0203	10/8/2012	172.00	117	NA
	X7-SB691-0304	10/8/2012	19.67	---	10.00
X7-SB692	X7-SS692-0001	10/8/2012	1690.00	---	1914.80
	X7-SS692-0102	10/8/2012	417.33	---	451.23
	X7-SB692-0203	10/8/2012	24.00	---	10.00
	X7-SB692-0304	10/8/2012	22.00	---	10.00
X7-SB693	X7-SS693-0001	10/8/2012	50.33	---	29.18
	X7-SS693-0102	10/8/2012	19.67	---	10.00
X7-SB694	X7-SS694-0001	10/8/2012	145.33	142	NA
	X7-SS694-0102	10/8/2012	38.33	---	15.38
	X7-SB694-0203	10/8/2012	10.00	---	10.00
X7-SB695	X7-SS695-0001	10/8/2012	86.00	---	70.20
	X7-SS695-0102	10/8/2012	34.67	---	11.17
X7-SB696	X7-SS696-0001	10/8/2012	89.33	---	74.03
	X7-SS696-0102	10/8/2012	767.00	---	853.35
	X7-SB696-0203	10/8/2012	122.00	148	NA
	X7-SB696-0304	10/8/2012	14.67	---	10.00

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
CENTRAL AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
CENTRAL AREA					
X7-SB697	X7-SS697-0001	10/8/2012	95.33	---	80.93
	X7-SS697-0102	10/8/2012	18.67	---	10.00
X7-SB698	X7-SS698-0001	10/8/2012	23.33	---	10.00
	X7-SS698-0102	10/8/2012	14.67	---	10.00
X7-SB699	X7-SS699-0001	10/8/2012	45.67	---	23.82
	X7-SS699-0102	10/8/2012	30.00	---	5.80
X7-SB700	X7-SS700-0001	10/8/2012	24.00	---	10.00
	X7-SS700-0102	10/8/2012	13.33	---	10.00
X7-SB701	X7-SS701-0001	10/8/2012	3020.33	---	3444.68
	X7-SS701-0102	10/8/2012	326.33	---	346.58
	X7-SB701-0203	10/8/2012	13.67	---	10.00
	X7-SB701-0304	10/8/2012	40.33	---	17.68
X7-SB702	X7-SS702-0001	10/8/2012	46.00	---	24.20
	X7-SS702-0102	10/8/2012	39.33	---	16.53
X7-SB703	X7-SS703-0001	10/8/2012	69.33	---	51.03
	X7-SS703-0102	10/8/2012	21.00	---	10.00

X7 = UXO 7
Calc = Calculated value
FBL = Fixed-base laboratory
mg/kg = milligram per kilogram
NA = Not applicable
ppm = parts per million
XRF = X-Ray fluorescence

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
Northernmost Area					
X7-SB055	X7-SB055-0203	9/8/2012	28.00	---	3.50
	X7-SB055-0304	9/8/2012	14.33	---	10.00
X7-SB174	X7-SB174-0203	9/8/2012	32.00	---	8.10
	X7-SB174-0304	9/8/2012	17.33	---	10.00
X7-SB190	X7-SB190-0203	9/8/2012	10.00	---	10.00
	X7-SB190-0304	9/8/2012	7.00	---	10.00
X7-SB274	X7-SB274-0203	9/8/2012	49.67	---	28.42
	X7-SB274-0304	9/8/2012	35.33	---	11.93
X7-SB275	X7-SB275-0203	9/8/2012	65.33	---	46.43
	X7-SB275-0304	9/8/2012	26.33	---	1.58
X7-SB277	X7-SB277-0203	9/8/2012	20.67	---	10.00
	X7-SB277-0304	9/8/2012	10.00	---	10.00
X7-SB278	X7-SB278-0203	9/8/2012	17.33	---	10.00
	X7-SB278-0304	9/8/2012	12.33	---	10.00
X7-SB283	X7-SB283-0203	9/8/2012	59.67	---	39.92
	X7-SB283-0304	9/8/2012	10.00	---	10.00
X7-SB285	X7-SB285-0203	9/8/2012	3.00	---	10.00
	X7-SB285-0304	9/8/2012	18.67	---	10.00
X7-SB342	X7-SB342-0203	9/8/2012	8.33	---	10.00
	X7-SB342-0304	9/8/2012	14.33	---	10.00
X7-SB567	X7-SS567-0001	9/9/2012	111.33	---	99.33
	X7-SS567-0102	9/9/2012	36.00	---	12.70
X7-SB568	X7-SS568-0001	9/9/2012	247.67	---	256.12
	X7-SS568-0102	9/9/2012	92.33	88.2	NA
	X7-SB568-0203	9/9/2012	19.67	---	10.00
	X7-SB568-0304	9/9/2012	18.00	---	10.00
X7-SB569	X7-SS569-0001	9/9/2012	599.67	---	660.92
	X7-SS569-0102	9/9/2012	109.33	93.1	NA
	X7-SB569-0203	9/9/2012	18.67	---	10.00

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
	X7-SB569-0304	9/9/2012	12.33	---	10.00
X7-SB570	X7-SS570-0001	9/9/2012	253.00	---	262.25
	X7-SS570-0102	9/9/2012	35.33	---	11.93
	X7-SB570-0203	9/9/2012	19.00	---	10.00
	X7-SB570-0304	9/9/2012	10.67	---	10.00
X7-SB571	X7-SS571-0001	9/9/2012	96.33	---	82.08
	X7-SS571-0102	9/9/2012	14.00	---	10.00
X7-SB572	X7-SS572-0001	9/9/2012	40.00	---	17.30
	X7-SS572-0102	9/9/2012	58.00	---	38.00
X7-SB573	X7-SS573-0001	9/8/2012	66.67	---	47.97
	X7-SS573-0102	9/8/2012	65.67	---	46.82
X7-SB574	X7-SS574-0001	9/8/2012	76.67	---	59.47
	X7-SS574-0102	9/8/2012	39.67	---	16.92
X7-SB575	X7-SS575-0001	9/9/2012	103.67	---	90.52
	X7-SS575-0102	9/9/2012	20.00	---	10.00
X7-SB576	X7-SS576-0001	9/9/2012	107.00	---	94.35
	X7-SS576-0102	9/9/2012	29.00	---	4.65
X7-SB577	X7-SS577-0001	9/9/2012	126.33	95.3	NA
	X7-SS577-0102	9/9/2012	26.67	---	1.97
X7-SB607	X7-SS607-0001	9/10/2012	35.33	---	11.93
	X7-SS607-0102	9/10/2012	25.00	---	0.05
X7-SB608	X7-SS608-0001	9/10/2012	160.33	166	NA
	X7-SS608-0102	9/10/2012	37.33	---	14.23
X7-SB609	X7-SS609-0001	9/10/2012	34.33	---	10.78
	X7-SS609-0102	9/10/2012	17.00	---	10.00

X7 = UXO 7
Calc = Calculated value
FBL = Fixed-base laboratory
mg/kg = milligram per kilogram
NA = Not applicable
ppm = parts per million

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
NORTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

LOCATION	ID	DATE	XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)

XRF = X-Ray fluorescence

TABLE X-X

XRF, FBL, AND CALCULATED LEAD CONCENTRATIONS IN SOIL
SOUTHERNMOST AREA
UXO 7 - RFI REPORT ADDENDUM
NSA CRANE
CRANE, INDIANA

SAMPLE LOCATION	SAMPLE ID	SAMPLE DATE	Lead Concentration		
			XRF (ppm)	FBL (mg/kg)	Calc (mg/kg)
SOUTHERNMOST AREA					
X7-SB038	X7-SB038-0203	9/8/2012	89.67	---	74.42
	X7-SB038-0304	9/8/2012	38.00	---	15.00
X7-SB039	X7-SB039-0203	9/8/2012	175.00	152.00	NA
	X7-SB039-0304	9/8/2012	166.33	---	162.58
X7-SB310	X7-SB310-0304	9/8/2012	187.00	---	186.35
	X7-SB310-0405	9/8/2012	125.67	145.00	NA
X7-SB312	X7-SB312-0203	9/8/2012	55.67	---	35.32
	X7-SB312-0304	9/8/2012	20.00	---	10.00
X7-SB313	X7-SB313-0304	9/8/2012	18.67	---	10.00
	X7-SB313-0405	9/8/2012	18.33	---	10.00
X7-SB371	X7-SS371-0102	9/8/2012	132.67	110.00	NA
	X7-SS371-0203	9/8/2012	15.33	---	10.00
X7-SB578	X7-SS578-0001	9/8/2012	14.33	---	10.00
	X7-SS578-0102	9/8/2012	9.67	---	10.00
X7-SB579	X7-SS579-0001	9/8/2012	23.00	---	10.00
	X7-SS579-0102	9/8/2012	9.33	---	10.00
X7-SB580	X7-SS580-0001	9/8/2012	14.33	---	10.00
	X7-SS580-0102	9/8/2012	6.33	---	10.00

X7 = UXO 7
Calc = Calculated value
FBL = Fixed-base laboratory
mg/kg = milligram per kilogram
NA = Not applicable
ppm = parts per million
XRF = X-Ray fluorescence

FIGURE 1 − CORRELATION ANALYSIS
UXO 7

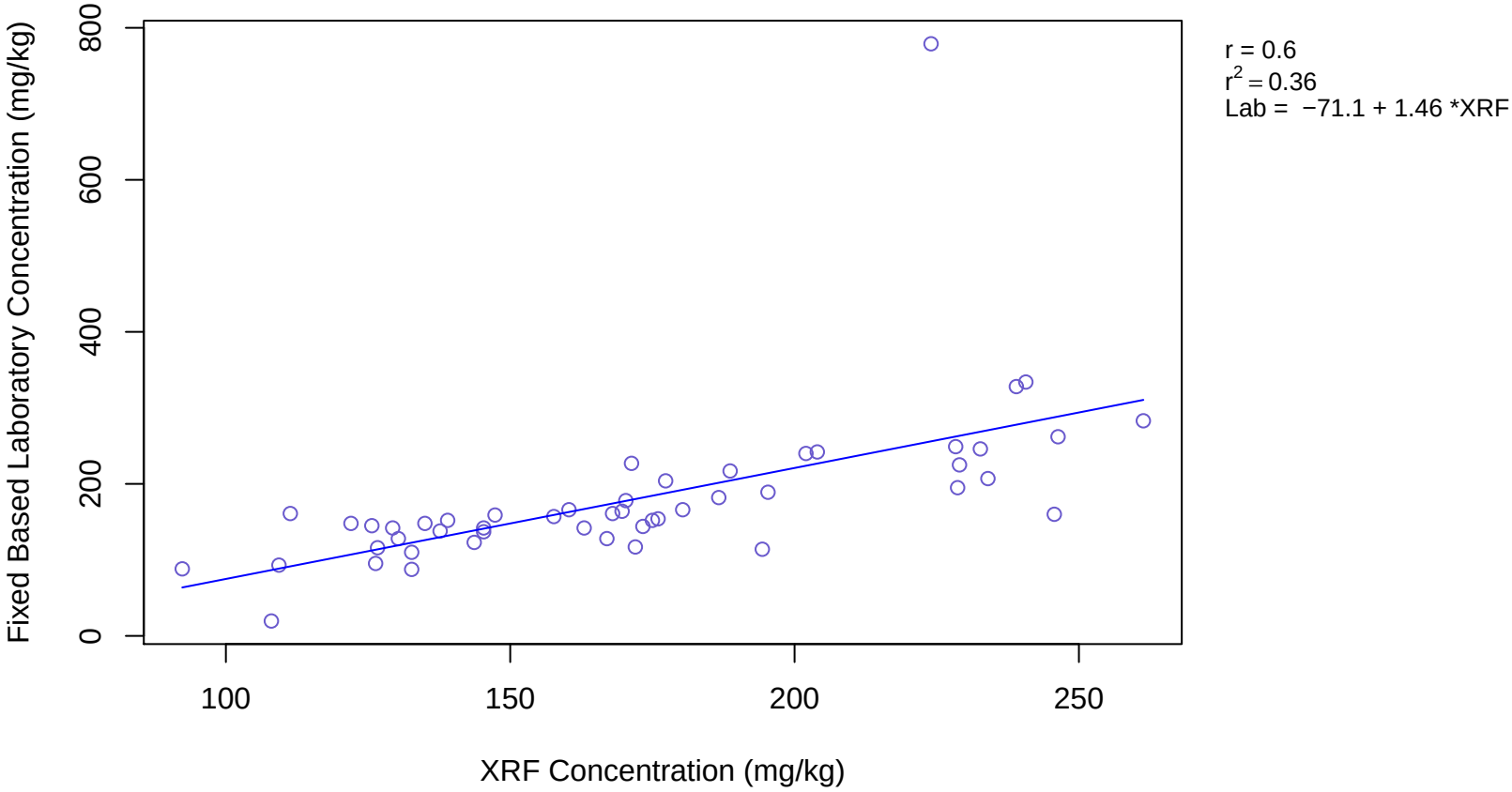
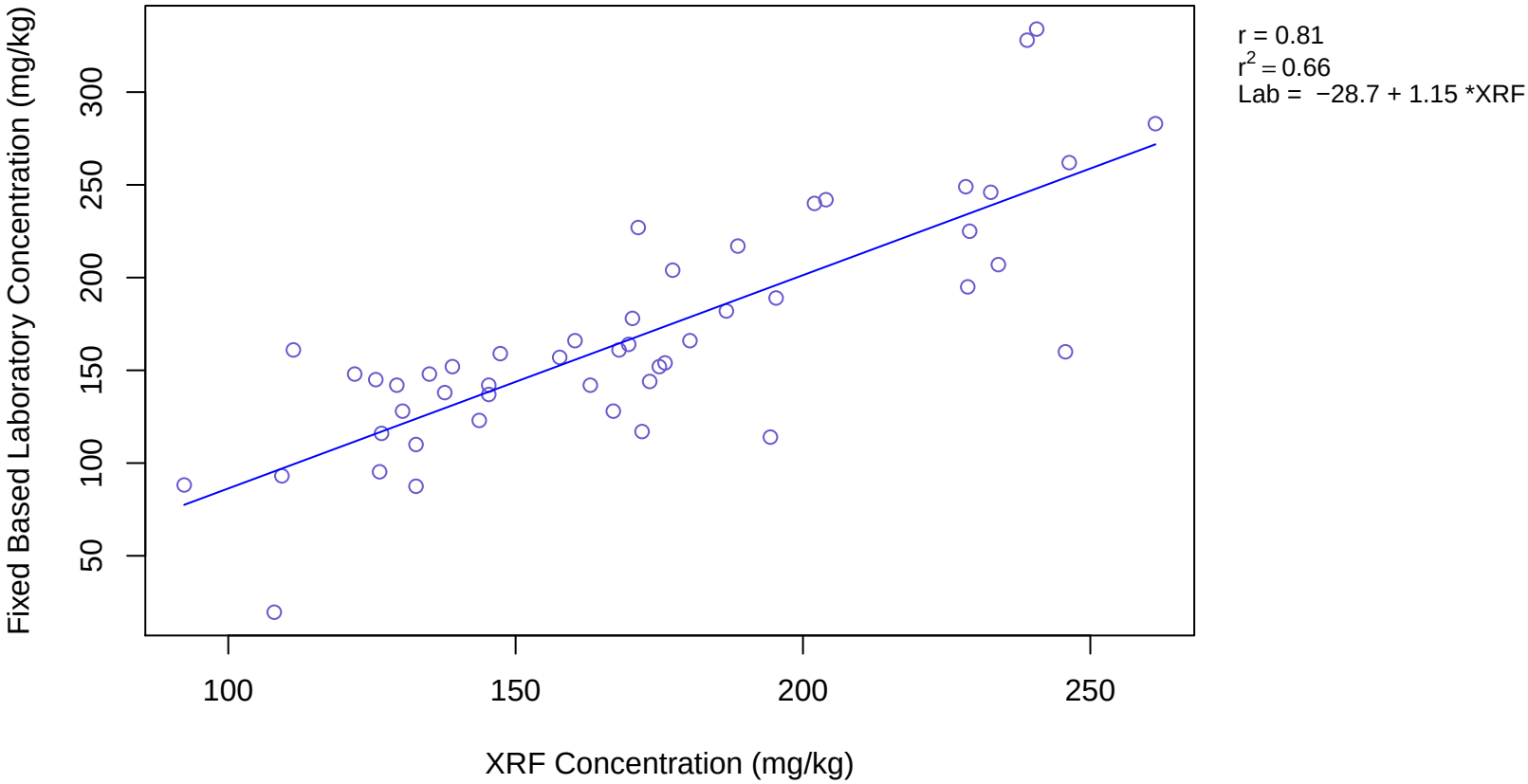


FIGURE 2 − CORRELATION ANALYSIS
OUTLIER REMOVED
UXO 7



APPENDIX E

HUMAN HEALTH / ECOLOGICAL RISK DISCUSSION SUPPORTING DATA

APPENDIX TABLE E.1

EXPOSURE PARAMETERS FOR THE TERRESTRIAL WILDLIFE MODEL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

	Conservative Inputs		Average Inputs		
Species/Exposure Inputs	**Values**	**Units**	**Values**	**Units**	**Source**
Meadow Vole					
Body Weight = BW	3.290E-02	kg	3.663E-02	kg	USEPA, 1993
Food Ingestion Rate = If	1.920E-03	kg/day	1.785E-03	kg/day	USEPA, 1993
Soil Ingestion Rate - Is	6.144E-05	kg/day	2.142E-05	kg/day	Beyer, 1993
Home Range = HR	Assume 100% on site		1.640E-01	acres	USEPA, 1993
Short-Tailed Shrew					
Body Weight = BW	1.525E-02	kg	1.687E-02	kg	USEPA, 1993
Food Ingestion Rate = If	2.592E-03	kg/day	1.648E-03	kg/day	USEPA, 1993
Soil Ingestion Rate - Is	7.776E-05	kg/day	1.483E-05	kg/day	Beyer, 1993
Home Range = HR	Assume 100% on site		9.700E-01	acres	USEPA, 1993
American Woodcock					
Body Weight = BW	1.660E-01	kg	1.895E-01	kg	USEPA, 1993
Food Ingestion Rate = If	3.032E-02	kg/day	2.526E-02	kg/day	USEPA, 1993
Soil Ingestion Rate - Is	4.972E-03	kg/day	1.617E-03	kg/day	Beyer, 1993
Home Range = HR	Assume 100% on site		6.133E+01	acres	USEPA, 1993
Bobwhite Quail					
Body Weight = BW	1.620E-01	kg	1.770E-01	kg	USEPA, 1993
Food Ingestion Rate = If	1.640E-02	kg/day	1.440E-02	kg/day	USEPA, 1993
Soil Ingestion Rate - Is	2.280E-03	kg/day	8.784E-04	kg/day	Beyer, 1993
Home Range = HR	Assume 100% on site		2.860E+01	acres	USEPA, 1993

The exposure factors were derived as presented in Appendix Table E.2.

The soil ingestion rates were calculated by multiplying the food ingestion rates by the following incidental soil ingestion rates:

Receptor	Conservative	Average	Source
Bobwhite quail	13.9%	6.1%	1, 2
Meadow Vole	3.2%	1.2%	1
American woodcock	16.4%	6.4%	1
Short-tailed Shrew	3%	0.9%	1

1 - USEPA (U.S. Environmental Protection Agency), 2007. Guidance for Developing Ecological Soil Screening Level, Attachment 4-1, Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. Office of Solid Waste and Emergency and Response. OSWER Directive 9285.7-55. April.
2 - Based on the mourning dove.

APPENDIX TABLE E.2

CALCULATION OF EXPOSURE PARAMETERS FOR SURROGATE WILDLIFE RECEPTORS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Exposure Parameters	Meadow Vole		Short-Tailed Shrew		American Woodcock	Bobwhite Quail	
Body Weights (g)	32.9		17.61	16.87	168	180	181
	39.1		17.33	15.58	209	168	183
	35.5		19.21	15.7	166	162	179
	39		17.4	15.25	212	175	175
					169	178	183.2
					213	179	185.5
						180	173
						162.8	180.4
Minimum	***32.9***		***15.25***		***166***	***162***	
Maximum	***39.1***		***19.21***		***213***	***186***	
Average	***36.6***		***16.87***		***190***	***177***	
Food Ingestion Rate (g/g-day) (1)	0.3		0.49	0.77	1.0	0.067	0.079
	0.35		0.62	0.55	0.77	0.072	0.093
			0.43	0.96	0.73	0.09	0.089
			0.52	0.54			
Minimum	***0.3***		***0.43***		***0.73***	***0.067***	
Maximum	***0.35***		***0.96***		***1.0***	***0.093***	
Average	***0.325***		***0.61***		***0.8***	***0.082***	
Food Ingestion Rate (kg/day)							
Conservative	***1.28E-02***		***1.62E-02***		***1.90E-01***	***1.64E-02***	
Average	***1.19E-02***		***1.03E-02***		***1.58E-01***	***1.44E-02***	
Conversion from wet weight to dry weight	***0.15 (2)***		***0.16 (3)***		***0.16 (3)***	***None (4)***	
Home Range (Ha)	0.43	0.1	0.3925		4.5	7.6	
	0.02	0.04			32.4	16.7	
	0.01	0.03			3.1	6.4	
	0.01	0.01			73.6	15.6	
	0.04	0.06			10.5		
	0.02	0.03					
	0.05	0.08					
	0.06	0.06					
Minimum (acres)	***0.0297***		***0.97***		***7.7***	***16***	
Maximum (acres)	***1.06***		***0.97***		***182***	***41***	
Average (acres)	***0.16***		***0.97***		***61***	***29***	

Notes:
Source of data is USEPA (1993). If values from several studies are available, they are given. The minimum, maximum, and average values are derived from these studies.

Footnotes:
(1) - Ingestion Rates (kg/day) (if more than 1 ingestion rate is available)
- Conservative value = Max Ingestion Rate (g/g-day) * Avg. Body Weight
- Average value = Avg. Ingestion Rate (g/g-day) * Avg. Body Weight

(2) - Percent solids in vegetation
(3) - Percent solids in earthworms
(4) - Food items on dry weight basis

APPENDIX TABLE E.3

TERRESTRIAL FOOD CHAIN MODEL - BIOACCUMULATION FACTORS
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Plant Bioaccumulation Factors[1]	Earthworm Bioaccumulation Factors[1]
Polycyclic Aromatic Hydrocarbons		
ACENAPHTHENE	EXP(-0.8556*LN(C)-5.562)	1.47
ACENAPHTHYLENE	EXP(0.791*LN(C)-1.144)	22.9
ANTHRACENE	EXP(0.7784*LN(C)-0.9887)	2.42
BENZO(A)ANTHRACENE	EXP(0.5944*LN(C)-2.7078)	1.59
BENZO(A)PYRENE	EXP(0.975*LN(C)-2.0615)	1.33
BENZO(B)FLUORANTHENE	0.31	2.6
BENZO(G,H,I)PERYLENE	EXP(1.1829*LN(C)-0.9313)	2.94
BENZO(K)FLUORANTHENE	EXP(0.8595*LN(C)-2.1579)	2.6
CHRYSENE	EXP(0.5944*LN(C)-2.7078)	2.29
DIBENZO(A,H)ANTHRACENE	0.13	2.31
FLUORANTHENE	0.5	3.04
FLUORENE	EXP(-0.8556*LN(C)-5.562)	9.57
INDENO(1,2,3-CD)PYRENE	0.11	2.86
PHENANTHRENE	EXP(0.6203*LN(C)-0.1665)	1.72
PYRENE	0.72	1.75

Notes:
The same bioaccumulation factors were used for the conservative and average food chain models.

Footnotes:
1 - USEPA, 2007. Guidance for Developing Ecological Soil Screening Level, Attachment 4-1, Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. Office of Solid Waste and Emergency and Response. OSWER Directive 9285.7-55. April.
- Several tissue concentrations were calculated using regression equations (where C is the soil concentration) from Table 4b in USEPA (2007).

CHEMICAL CONCENTRATIONS IN SURFACE SOIL AND TISSUE - EAST TRAP RANGE
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Surface Soil Concentrations (mg/kg)				Earthworm Bioaccumulation Factors		Earthworm Concentrations (mg/kg)		Plant Bioaccumulation Factors		Plant Concentrations (mg/kg)	
	Maximum Detection	Average of All Results	Average of Positive Results	Average (1)	Conservative	Average	Maximum Detection	Average	Conservative	Average	Maximum Detection	Average
Polycyclic Aromatic Hydrocarbons												
ACENAPHTHENE	5.45E-01	1.18E-02	4.42E-02	1.18E-02	1.47E+00	1.47E+00	8.01E-01	1.74E-02	Regression equation from Eco SSL		6.46E-03	1.71E-01
ANTHRACENE	5.02E-01	1.55E-02	4.44E-02	1.55E-02	2.42E+00	2.42E+00	1.21E+00	3.76E-02	Regression equation from Eco SSL		2.18E-01	1.45E-02
BENZO(A)ANTHRACENE	1.06E+01	3.08E-01	4.59E-01	3.08E-01	1.59E+00	1.59E+00	1.69E+01	4.90E-01	Regression equation from Eco SSL		2.71E-01	3.31E-02
BENZO(A)PYRENE	1.54E+01	4.04E-01	4.79E-01	4.04E-01	1.33E+00	1.33E+00	2.05E+01	5.37E-01	Regression equation from Eco SSL		1.83E+00	5.26E-02
BENZO(B)FLUORANTHENE	2.09E+01	5.39E-01	6.28E-01	5.39E-01	2.60E+00	2.60E+00	5.43E+01	1.40E+00	3.10E-01	3.10E-01	6.48E+00	1.67E-01
BENZO(G,H,I)PERYLENE	8.65E+00	2.53E-01	3.28E-01	2.53E-01	2.94E+00	2.94E+00	2.54E+01	7.45E-01	Regression equation from Eco SSL		5.06E+00	7.77E-02
BENZO(K)FLUORANTHENE	6.93E+00	1.92E-01	2.64E-01	1.92E-01	2.60E+00	2.60E+00	1.80E+01	5.00E-01	Regression equation from Eco SSL		6.10E-01	2.80E-02
CHRYSENE	1.34E+01	3.78E-01	5.57E-01	3.78E-01	2.29E+00	2.29E+00	3.07E+01	8.66E-01	Regression equation from Eco SSL		3.12E-01	3.74E-02
DIBENZO(A,H)ANTHRACENE	1.03E+00	2.13E-02	6.02E-02	2.13E-02	2.31E+00	2.31E+00	2.38E+00	4.92E-02	1.30E-01	1.30E-01	1.34E-01	2.77E-03
FLUORANTHENE	1.18E+01	3.67E-01	4.35E-01	3.67E-01	3.04E+00	3.04E+00	3.59E+01	1.12E+00	5.00E-01	5.00E-01	5.90E+00	1.84E-01
FLUORENE	1.92E-01	6.29E-03	2.54E-02	6.29E-03	9.57E+00	9.57E+00	1.84E+00	6.02E-02	Regression equation from Eco SSL		1.58E-02	2.94E-01
INDENO(1,2,3-CD)PYRENE	7.63E+00	2.38E-01	3.10E-01	2.38E-01	2.86E+00	2.86E+00	2.18E+01	6.80E-01	1.10E-01	1.10E-01	8.39E-01	2.61E-02
PHENANTHRENE	1.97E+00	6.51E-02	9.57E-02	6.51E-02	1.72E+00	1.72E+00	3.39E+00	1.12E-01	Regression equation from Eco SSL		1.29E+00	1.56E-01
PYRENE	1.27E+01	3.77E-01	4.46E-01	3.77E-01	1.75E+00	1.75E+00	2.22E+01	6.59E-01	7.20E-01	7.20E-01	9.14E+00	2.71E-01

1 - Average concentration is the mean concentration of all samples, using 1/2 the detection limit for non-detects, unless the value is greater than the maximum concentration. In that case, the average concentration is the mean of the positive detections.

MEADOW VOLE - CONSERVATIVE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.45E-01	6.46E-03	1.02E-03	3.77E-04	1.39E-03	6.56E+01	3.56E+02	2.1E-05	3.9E-06
ANTHRACENE	5.02E-01	2.18E-01	9.37E-04	1.27E-02	1.36E-02	6.56E+01	3.56E+02	2.1E-04	3.8E-05
BENZO(A)ANTHRACENE	1.06E+01	2.71E-01	1.98E-02	1.58E-02	3.56E-02	6.15E-01	3.84E+01	5.8E-02	9.3E-04
BENZO(A)PYRENE	1.54E+01	1.83E+00	2.88E-02	1.07E-01	1.36E-01	6.15E-01	3.84E+01	2.2E-01	3.5E-03
BENZO(B)FLUORANTHENE	2.09E+01	6.48E+00	3.90E-02	3.78E-01	4.17E-01	6.15E-01	3.84E+01	6.8E-01	1.1E-02
BENZO(G,H,I)PERYLENE	8.65E+00	5.06E+00	1.62E-02	2.95E-01	3.11E-01	6.15E-01	3.84E+01	5.1E-01	8.1E-03
BENZO(K)FLUORANTHENE	6.93E+00	6.10E-01	1.29E-02	3.56E-02	4.85E-02	6.15E-01	3.84E+01	7.9E-02	1.3E-03
CHRYSENE	1.34E+01	3.12E-01	2.50E-02	1.82E-02	4.32E-02	6.15E-01	3.84E+01	7.0E-02	1.1E-03
DIBENZO(A,H)ANTHRACENE	1.03E+00	1.34E-01	1.92E-03	7.81E-03	9.74E-03	6.15E-01	3.84E+01	1.6E-02	2.5E-04
FLUORANTHENE	1.18E+01	5.90E+00	2.20E-02	3.44E-01	3.66E-01	6.56E+01	3.56E+02	5.6E-03	1.0E-03
FLUORENE	1.92E-01	1.58E-02	3.59E-04	9.20E-04	1.28E-03	6.56E+01	3.56E+02	1.9E-05	3.6E-06
INDENO(1,2,3-CD)PYRENE	7.63E+00	8.39E-01	1.42E-02	4.90E-02	6.32E-02	6.15E-01	3.84E+01	1.0E-01	1.6E-03
PHENANTHRENE	1.97E+00	1.29E+00	3.68E-03	7.52E-02	7.89E-02	6.56E+01	3.56E+02	1.2E-03	2.2E-04
PYRENE	1.27E+01	9.14E+00	2.37E-02	5.34E-01	5.57E-01	6.15E-01	3.84E+01	9.1E-01	1.5E-02

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	3.29E-02 kg	Dose (soil) = (Cs * Is)(H)/BW	Conc = Concentration
Food Ingestion Rate = (If)	1.92E-03 kg/day	Dose (vegetation) = (Cv * If)(H)/BW	LOAEL = Lowest Observed Adverse Effects Concentration
Soil Ingestion Rate = (Is)	6.14E-05 kg/day		NOAEL = No Observed Adverse Effects Concentration
Home Range = (HR)	Assume 100% on site	Cv = Contaminant concentration in vegetation	
Contaminated Area = (CA)	Assume equal to home range	Cs = Contaminant concentration in soil	
		Total Dose = Dose (soil) + Dose (vegetation)	
		H=CA/HR (Assume = to 1)	

MEADOW VOLE - AVERAGE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	1.18E-02	1.71E-01	6.91E-06	8.34E-03	8.35E-03	6.56E+01	3.56E+02	1.3E-04	2.3E-05
ANTHRACENE	1.55E-02	1.45E-02	9.08E-06	7.09E-04	7.18E-04	6.56E+01	3.56E+02	1.1E-05	2.0E-06
BENZO(A)ANTHRACENE	3.08E-01	3.31E-02	1.80E-04	1.61E-03	1.80E-03	6.15E-01	3.84E+01	2.9E-03	4.7E-05
BENZO(A)PYRENE	4.04E-01	5.26E-02	2.36E-04	2.56E-03	2.80E-03	6.15E-01	3.84E+01	4.5E-03	7.3E-05
BENZO(B)FLUORANTHENE	5.39E-01	1.67E-01	3.15E-04	8.14E-03	8.46E-03	6.15E-01	3.84E+01	1.4E-02	2.2E-04
BENZO(G,H,I)PERYLENE	2.53E-01	7.77E-02	1.48E-04	3.79E-03	3.94E-03	6.15E-01	3.84E+01	6.4E-03	1.0E-04
BENZO(K)FLUORANTHENE	1.92E-01	2.80E-02	1.12E-04	1.36E-03	1.48E-03	6.15E-01	3.84E+01	2.4E-03	3.8E-05
CHRYSENE	3.78E-01	3.74E-02	2.21E-04	1.82E-03	2.04E-03	6.15E-01	3.84E+01	3.3E-03	5.3E-05
DIBENZO(A,H)ANTHRACENE	2.13E-02	2.77E-03	1.24E-05	1.35E-04	1.47E-04	6.15E-01	3.84E+01	2.4E-04	3.8E-06
FLUORANTHENE	3.67E-01	1.84E-01	2.15E-04	8.95E-03	9.16E-03	6.56E+01	3.56E+02	1.4E-04	2.6E-05
FLUORENE	6.29E-03	2.94E-01	3.68E-06	1.43E-02	1.43E-02	6.56E+01	3.56E+02	2.2E-04	4.0E-05
INDENO(1,2,3-CD)PYRENE	2.38E-01	2.61E-02	1.39E-04	1.27E-03	1.41E-03	6.15E-01	3.84E+01	2.3E-03	3.7E-05
PHENANTHRENE	6.51E-02	1.56E-01	3.81E-05	7.58E-03	7.62E-03	6.56E+01	3.56E+02	1.2E-04	2.1E-05
PYRENE	3.77E-01	2.71E-01	2.20E-04	1.32E-02	1.34E-02	6.15E-01	3.84E+01	2.2E-02	3.5E-04

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	3.66E-02	kg
Food Ingestion Rate = (If)	1.79E-03	kg/day
Soil Ingestion Rate = (Is)	2.14E-05	kg/day
Home Range = (HR)	1.64E-01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration

BOBWHITE QUAIL - CONSERVATIVE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.45E-01	6.46E-03	7.67E-03	6.54E-04	8.32E-03	2.00E+00	2.00E+01	4.2E-03	4.2E-04
ANTHRACENE	5.02E-01	2.18E-01	7.06E-03	2.20E-02	2.91E-02	2.00E+00	2.00E+01	1.5E-02	1.5E-03
BENZO(A)ANTHRACENE	1.06E+01	2.71E-01	1.49E-01	2.75E-02	1.77E-01	2.00E+00	2.00E+01	8.8E-02	8.8E-03
BENZO(A)PYRENE	1.54E+01	1.83E+00	2.17E-01	1.85E-01	4.02E-01	2.00E+00	2.00E+01	2.0E-01	2.0E-02
BENZO(B)FLUORANTHENE	2.09E+01	6.48E+00	2.94E-01	6.56E-01	9.50E-01	2.00E+00	2.00E+01	4.7E-01	4.7E-02
BENZO(G,H,I)PERYLENE	8.65E+00	5.06E+00	1.22E-01	5.12E-01	6.34E-01	2.00E+00	2.00E+01	3.2E-01	3.2E-02
BENZO(K)FLUORANTHENE	6.93E+00	6.10E-01	9.75E-02	6.18E-02	1.59E-01	2.00E+00	2.00E+01	8.0E-02	8.0E-03
CHRYSENE	1.34E+01	3.12E-01	1.89E-01	3.16E-02	2.20E-01	2.00E+00	2.00E+01	1.1E-01	1.1E-02
DIBENZO(A,H)ANTHRACENE	1.03E+00	1.34E-01	1.45E-02	1.36E-02	2.80E-02	2.00E+00	2.00E+01	1.4E-02	1.4E-03
FLUORANTHENE	1.18E+01	5.90E+00	1.66E-01	5.97E-01	7.63E-01	2.00E+00	2.00E+01	3.8E-01	3.8E-02
FLUORENE	1.92E-01	1.58E-02	2.70E-03	1.60E-03	4.30E-03	2.00E+00	2.00E+01	2.1E-03	2.1E-04
INDENO(1,2,3-CD)PYRENE	7.63E+00	8.39E-01	1.07E-01	8.50E-02	1.92E-01	2.00E+00	2.00E+01	9.6E-02	9.6E-03
PHENANTHRENE	1.97E+00	1.29E+00	2.77E-02	1.31E-01	1.58E-01	2.00E+00	2.00E+01	7.9E-02	7.9E-03
PYRENE	1.27E+01	9.14E+00	1.79E-01	9.26E-01	1.10E+00	2.00E+00	2.00E+01	5.5E-01	5.5E-02

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.62E-01	kg	
Food Ingestion Rate = (If)	1.64E-02	kg/day	
Soil Ingestion Rate = (Is)	2.28E-03	kg/day	
Home Range = (HR)	Assume 100% on site		
Contaminated Area = (CA)	Assume equal to home range		

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

BOBWHITE QUAIL - AVERAGE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	1.18E-02	1.71E-01	5.87E-05	1.39E-02	1.40E-02	2.00E+00	2.00E+01	7.0E-03	7.0E-04
ANTHRACENE	1.55E-02	1.45E-02	7.71E-05	1.18E-03	1.26E-03	2.00E+00	2.00E+01	6.3E-04	6.3E-05
BENZO(A)ANTHRACENE	3.08E-01	3.31E-02	1.53E-03	2.70E-03	4.23E-03	2.00E+00	2.00E+01	2.1E-03	2.1E-04
BENZO(A)PYRENE	4.04E-01	5.26E-02	2.00E-03	4.28E-03	6.28E-03	2.00E+00	2.00E+01	3.1E-03	3.1E-04
BENZO(B)FLUORANTHENE	5.39E-01	1.67E-01	2.67E-03	1.36E-02	1.63E-02	2.00E+00	2.00E+01	8.1E-03	8.1E-04
BENZO(G,H,I)PERYLENE	2.53E-01	7.77E-02	1.26E-03	6.32E-03	7.58E-03	2.00E+00	2.00E+01	3.8E-03	3.8E-04
BENZO(K)FLUORANTHENE	1.92E-01	2.80E-02	9.54E-04	2.28E-03	3.23E-03	2.00E+00	2.00E+01	1.6E-03	1.6E-04
CHRYSENE	3.78E-01	3.74E-02	1.88E-03	3.04E-03	4.92E-03	2.00E+00	2.00E+01	2.5E-03	2.5E-04
DIBENZO(A,H)ANTHRACENE	2.13E-02	2.77E-03	1.06E-04	2.25E-04	3.31E-04	2.00E+00	2.00E+01	1.7E-04	1.7E-05
FLUORANTHENE	3.67E-01	1.84E-01	1.82E-03	1.49E-02	1.68E-02	2.00E+00	2.00E+01	8.4E-03	8.4E-04
FLUORENE	6.29E-03	2.94E-01	3.12E-05	2.39E-02	2.39E-02	2.00E+00	2.00E+01	1.2E-02	1.2E-03
INDENO(1,2,3-CD)PYRENE	2.38E-01	2.61E-02	1.18E-03	2.13E-03	3.31E-03	2.00E+00	2.00E+01	1.7E-03	1.7E-04
PHENANTHRENE	6.51E-02	1.56E-01	3.23E-04	1.27E-02	1.30E-02	2.00E+00	2.00E+01	6.5E-03	6.5E-04
PYRENE	3.77E-01	2.71E-01	1.87E-03	2.21E-02	2.39E-02	2.00E+00	2.00E+01	1.2E-02	1.2E-03

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.77E-01	kg
Food Ingestion Rate = (If)	1.44E-02	kg/day
Soil Ingestion Rate = (Is)	8.78E-04	kg/day
Home Range = (HR)	2.86E+01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

SHORT-TAILED SHREW - CONSERVATIVE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.45E-01	8.01E-01	2.78E-03	1.36E-01	1.39E-01	6.56E+01	3.56E+02	2.1E-03	3.9E-04
ANTHRACENE	5.02E-01	1.21E+00	2.56E-03	2.06E-01	2.09E-01	6.56E+01	3.56E+02	3.2E-03	5.9E-04
BENZO(A)ANTHRACENE	1.06E+01	1.69E+01	5.40E-02	2.86E+00	2.92E+00	6.15E-01	3.84E+01	4.7E+00	7.6E-02
BENZO(A)PYRENE	1.54E+01	2.05E+01	7.85E-02	3.48E+00	3.56E+00	6.15E-01	3.84E+01	5.8E+00	9.3E-02
BENZO(B)FLUORANTHENE	2.09E+01	5.43E+01	1.07E-01	9.24E+00	9.34E+00	6.15E-01	3.84E+01	1.5E+01	2.4E-01
BENZO(G,H,I)PERYLENE	8.65E+00	2.54E+01	4.41E-02	4.32E+00	4.37E+00	6.15E-01	3.84E+01	7.1E+00	1.1E-01
BENZO(K)FLUORANTHENE	6.93E+00	1.80E+01	3.53E-02	3.06E+00	3.10E+00	6.15E-01	3.84E+01	5.0E+00	8.1E-02
CHRYSENE	1.34E+01	3.07E+01	6.83E-02	5.22E+00	5.28E+00	6.15E-01	3.84E+01	8.6E+00	1.4E-01
DIBENZO(A,H)ANTHRACENE	1.03E+00	2.38E+00	5.25E-03	4.04E-01	4.10E-01	6.15E-01	3.84E+01	6.7E-01	1.1E-02
FLUORANTHENE	1.18E+01	3.59E+01	6.02E-02	6.10E+00	6.16E+00	6.56E+01	3.56E+02	9.4E-02	1.7E-02
FLUORENE	1.92E-01	1.84E+00	9.79E-04	3.12E-01	3.13E-01	6.56E+01	3.56E+02	4.8E-03	8.8E-04
INDENO(1,2,3-CD)PYRENE	7.63E+00	2.18E+01	3.89E-02	3.71E+00	3.75E+00	6.15E-01	3.84E+01	6.1E+00	9.8E-02
PHENANTHRENE	1.97E+00	3.39E+00	1.00E-02	5.76E-01	5.86E-01	6.56E+01	3.56E+02	8.9E-03	1.6E-03
PYRENE	1.27E+01	2.22E+01	6.48E-02	3.78E+00	3.84E+00	6.15E-01	3.84E+01	6.2E+00	1.0E-01

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.53E-02 kg	Dose (soil) = (Cs * Is)(H)/BW	Conc = Concentration
Food Ingestion Rate = (If)	2.59E-03 kg/day	Dose (invertebrate) = (Ci * If)(H)/BW	LOAEL = Lowest Observed Adverse Effects Concentration
Soil Ingestion Rate = (Is)	7.78E-05 kg/day		NOAEL = No Observed Adverse Effects Concentration
Home Range = (HR)	Assume 100% on site	Ci = Contaminant concentration in invertebrate	
Contaminated Area = (CA)	Assume equal to home range	Cs = Contaminant concentration in soil	
		Total Dose = Dose (soil) + Dose (invertebrate)	
		H=CA/HR (Assume = to 1)	

SHORT-TAILED SHREW - AVERAGE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	1.18E-02	1.74E-02	1.04E-05	1.70E-03	1.71E-03	6.56E+01	3.56E+02	2.6E-05	4.8E-06
ANTHRACENE	1.55E-02	3.76E-02	1.37E-05	3.67E-03	3.68E-03	6.56E+01	3.56E+02	5.6E-05	1.0E-05
BENZO(A)ANTHRACENE	3.08E-01	4.90E-01	2.71E-04	4.79E-02	4.82E-02	6.15E-01	3.84E+01	7.8E-02	1.3E-03
BENZO(A)PYRENE	4.04E-01	5.37E-01	3.55E-04	5.25E-02	5.28E-02	6.15E-01	3.84E+01	8.6E-02	1.4E-03
BENZO(B)FLUORANTHENE	5.39E-01	1.40E+00	4.74E-04	1.37E-01	1.37E-01	6.15E-01	3.84E+01	2.2E-01	3.6E-03
BENZO(G,H,I)PERYLENE	2.53E-01	7.45E-01	2.23E-04	7.28E-02	7.30E-02	6.15E-01	3.84E+01	1.2E-01	1.9E-03
BENZO(K)FLUORANTHENE	1.92E-01	5.00E-01	1.69E-04	4.88E-02	4.90E-02	6.15E-01	3.84E+01	8.0E-02	1.3E-03
CHRYSENE	3.78E-01	8.66E-01	3.33E-04	8.46E-02	8.49E-02	6.15E-01	3.84E+01	1.4E-01	2.2E-03
DIBENZO(A,H)ANTHRACENE	2.13E-02	4.92E-02	1.87E-05	4.80E-03	4.82E-03	6.15E-01	3.84E+01	7.8E-03	1.3E-04
FLUORANTHENE	3.67E-01	1.12E+00	3.23E-04	1.09E-01	1.09E-01	6.56E+01	3.56E+02	1.7E-03	3.1E-04
FLUORENE	6.29E-03	6.02E-02	5.53E-06	5.88E-03	5.89E-03	6.56E+01	3.56E+02	9.0E-05	1.7E-05
INDENO(1,2,3-CD)PYRENE	2.38E-01	6.80E-01	2.09E-04	6.64E-02	6.66E-02	6.15E-01	3.84E+01	1.1E-01	1.7E-03
PHENANTHRENE	6.51E-02	1.12E-01	5.72E-05	1.09E-02	1.10E-02	6.56E+01	3.56E+02	1.7E-04	3.1E-05
PYRENE	3.77E-01	6.59E-01	3.31E-04	6.44E-02	6.47E-02	6.15E-01	3.84E+01	1.1E-01	1.7E-03

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.69E-02	kg
Food Ingestion Rate = (If)	1.65E-03	kg/day
Soil Ingestion Rate = (Is)	1.48E-05	kg/day
Home Range = (HR)	9.70E-01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration

AMERICAN WOODCOCK - CONSERVATIVE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.45E-01	8.01E-01	1.63E-02	1.46E-01	1.63E-01	2.00E+00	2.00E+01	8.1E-02	8.1E-03
ANTHRACENE	5.02E-01	1.21E+00	1.50E-02	2.22E-01	2.37E-01	2.00E+00	2.00E+01	1.2E-01	1.2E-02
BENZO(A)ANTHRACENE	1.06E+01	1.69E+01	3.18E-01	3.08E+00	3.40E+00	2.00E+00	2.00E+01	1.7E+00	1.7E-01
BENZO(A)PYRENE	1.54E+01	2.05E+01	4.61E-01	3.74E+00	4.20E+00	2.00E+00	2.00E+01	2.1E+00	2.1E-01
BENZO(B)FLUORANTHENE	2.09E+01	5.43E+01	6.26E-01	9.93E+00	1.06E+01	2.00E+00	2.00E+01	5.3E+00	5.3E-01
BENZO(G,H,I)PERYLENE	8.65E+00	2.54E+01	2.59E-01	4.64E+00	4.90E+00	2.00E+00	2.00E+01	2.5E+00	2.5E-01
BENZO(K)FLUORANTHENE	6.93E+00	1.80E+01	2.08E-01	3.29E+00	3.50E+00	2.00E+00	2.00E+01	1.7E+00	1.7E-01
CHRYSENE	1.34E+01	3.07E+01	4.01E-01	5.60E+00	6.01E+00	2.00E+00	2.00E+01	3.0E+00	3.0E-01
DIBENZO(A,H)ANTHRACENE	1.03E+00	2.38E+00	3.09E-02	4.35E-01	4.65E-01	2.00E+00	2.00E+01	2.3E-01	2.3E-02
FLUORANTHENE	1.18E+01	3.59E+01	3.53E-01	6.55E+00	6.91E+00	2.00E+00	2.00E+01	3.5E+00	3.5E-01
FLUORENE	1.92E-01	1.84E+00	5.75E-03	3.36E-01	3.41E-01	2.00E+00	2.00E+01	1.7E-01	1.7E-02
INDENO(1,2,3-CD)PYRENE	7.63E+00	2.18E+01	2.29E-01	3.99E+00	4.21E+00	2.00E+00	2.00E+01	2.1E+00	2.1E-01
PHENANTHRENE	1.97E+00	3.39E+00	5.90E-02	6.19E-01	6.78E-01	2.00E+00	2.00E+01	3.4E-01	3.4E-02
PYRENE	1.27E+01	2.22E+01	3.80E-01	4.06E+00	4.44E+00	2.00E+00	2.00E+01	2.2E+00	2.2E-01

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.66E-01	kg
Food Ingestion Rate = (If)	3.03E-02	kg/day
Soil Ingestion Rate = (Is)	4.97E-03	kg/day
Home Range = (HR)	Assume 100% on site	
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

AMERICAN WOODCOCK - AVERAGE INPUTS - EAST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	1.18E-02	1.74E-02	1.01E-04	2.32E-03	2.42E-03	2.00E+00	2.00E+01	1.2E-03	1.2E-04
ANTHRACENE	1.55E-02	3.76E-02	1.32E-04	5.01E-03	5.14E-03	2.00E+00	2.00E+01	2.6E-03	2.6E-04
BENZO(A)ANTHRACENE	3.08E-01	4.90E-01	2.63E-03	6.54E-02	6.80E-02	2.00E+00	2.00E+01	3.4E-02	3.4E-03
BENZO(A)PYRENE	4.04E-01	5.37E-01	3.45E-03	7.16E-02	7.51E-02	2.00E+00	2.00E+01	3.8E-02	3.8E-03
BENZO(B)FLUORANTHENE	5.39E-01	1.40E+00	4.60E-03	1.87E-01	1.91E-01	2.00E+00	2.00E+01	9.6E-02	9.6E-03
BENZO(G,H,I)PERYLENE	2.53E-01	7.45E-01	2.16E-03	9.94E-02	1.02E-01	2.00E+00	2.00E+01	5.1E-02	5.1E-03
BENZO(K)FLUORANTHENE	1.92E-01	5.00E-01	1.64E-03	6.66E-02	6.83E-02	2.00E+00	2.00E+01	3.4E-02	3.4E-03
CHRYSENE	3.78E-01	8.66E-01	3.23E-03	1.15E-01	1.19E-01	2.00E+00	2.00E+01	5.9E-02	5.9E-03
DIBENZO(A,H)ANTHRACENE	2.13E-02	4.92E-02	1.82E-04	6.56E-03	6.74E-03	2.00E+00	2.00E+01	3.4E-03	3.4E-04
FLUORANTHENE	3.67E-01	1.12E+00	3.13E-03	1.49E-01	1.52E-01	2.00E+00	2.00E+01	7.6E-02	7.6E-03
FLUORENE	6.29E-03	6.02E-02	5.37E-05	8.03E-03	8.08E-03	2.00E+00	2.00E+01	4.0E-03	4.0E-04
INDENO(1,2,3-CD)PYRENE	2.38E-01	6.80E-01	2.03E-03	9.06E-02	9.26E-02	2.00E+00	2.00E+01	4.6E-02	4.6E-03
PHENANTHRENE	6.51E-02	1.12E-01	5.55E-04	1.49E-02	1.55E-02	2.00E+00	2.00E+01	7.7E-03	7.7E-04
PYRENE	3.77E-01	6.59E-01	3.21E-03	8.78E-02	9.11E-02	2.00E+00	2.00E+01	4.6E-02	4.6E-03

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.90E-01	kg
Food Ingestion Rate = (If)	2.53E-02	kg/day
Soil Ingestion Rate = (Is)	1.62E-03	kg/day
Home Range = (HR)	6.13E+01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

CHEMICAL CONCENTRATIONS IN SURFACE SOIL AND TISSUE - WEST TRAP RANGE
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Surface Soil Concentrations (mg/kg)				Earthworm Bioaccumulation Factors		Earthworm Concentrations (mg/kg)		Plant Bioaccumulation Factors		Plant Concentrations (mg/kg)	
	Maximum Detection	Average of All Results	Average of Positive Results	Average [1]	Conservative	Average	Maximum Detection	Average	Conservative	Average	Maximum Detection	Average
Polycyclic Aromatic Hydrocarbons												
ACENAPHTHENE	2.30E+00	5.23E-02	1.39E-01	5.23E-02	1.47E+00	1.47E+00	3.38E+00	7.69E-02	Regression equation from Eco SSL		1.88E-03	4.80E-02
ACENAPHTHYLENE	2.70E-02	2.84E-03	2.70E-02	2.84E-03	2.29E+01	2.29E+01	6.18E-01	6.49E-02	Regression equation from Eco SSL		1.83E-02	3.08E-03
ANTHRACENE	3.33E+00	7.89E-02	1.88E-01	7.89E-02	2.42E+00	2.42E+00	8.06E+00	1.91E-01	Regression equation from Eco SSL		9.49E-01	5.15E-02
BENZO(A)ANTHRACENE	5.23E+01	9.58E-01	1.42E+00	9.58E-01	1.59E+00	1.59E+00	8.32E+01	1.52E+00	Regression equation from Eco SSL		7.01E-01	6.50E-02
BENZO(A)PYRENE	5.66E+01	1.06E+00	1.49E+00	1.06E+00	1.33E+00	1.33E+00	7.53E+01	1.40E+00	Regression equation from Eco SSL		6.51E+00	1.34E-01
BENZO(B)FLUORANTHENE	7.94E+01	1.45E+00	1.95E+00	1.45E+00	2.60E+00	2.60E+00	2.06E+02	3.76E+00	3.10E-01	3.10E-01	2.46E+01	4.48E-01
BENZO(G,H,I)PERYLENE	4.83E+01	8.02E-01	1.14E+00	8.02E-01	2.94E+00	2.94E+00	1.42E+02	2.36E+00	Regression equation from Eco SSL		3.87E+01	3.04E-01
BENZO(K)FLUORANTHENE	2.30E+01	4.82E-01	7.42E-01	4.82E-01	2.60E+00	2.60E+00	5.98E+01	1.25E+00	Regression equation from Eco SSL		1.71E+00	6.17E-02
CHRYSENE	6.68E+01	1.18E+00	1.76E+00	1.18E+00	2.29E+00	2.29E+00	1.53E+02	2.71E+00	Regression equation from Eco SSL		8.10E-01	7.36E-02
DIBENZO(A,H)ANTHRACENE	1.03E+01	1.51E-01	4.36E-01	1.51E-01	2.31E+00	2.31E+00	2.38E+01	3.50E-01	1.30E-01	1.30E-01	1.34E+00	1.97E-02
FLUORANTHENE	6.14E+01	1.21E+00	1.64E+00	1.21E+00	3.04E+00	3.04E+00	1.87E+02	3.67E+00	5.00E-01	5.00E-01	3.07E+01	6.04E-01
FLUORENE	1.30E+00	3.36E-02	1.25E-01	3.36E-02	9.57E+00	9.57E+00	1.24E+01	3.22E-01	Regression equation from Eco SSL		3.07E-03	7.00E-02
INDENO(1,2,3-CD)PYRENE	4.84E+01	7.90E-01	1.12E+00	7.90E-01	2.86E+00	2.86E+00	1.38E+02	2.26E+00	1.10E-01	1.10E-01	5.32E+00	8.69E-02
PHENANTHRENE	1.37E+01	3.62E-01	5.15E-01	3.62E-01	1.72E+00	1.72E+00	2.36E+01	6.23E-01	Regression equation from Eco SSL		4.29E+00	4.51E-01
PYRENE	6.26E+01	1.25E+00	1.68E+00	1.25E+00	1.75E+00	1.75E+00	1.10E+02	2.18E+00	7.20E-01	7.20E-01	4.51E+01	8.97E-01

1 - Average concentration is the mean concentration of all samples, using 1/2 the detection limit for non-detects, unless the value is greater than the maximum concentration. In that case, the average concentration is the mean of the positive detections.

MEADOW VOLE - CONSERVATIVE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	2.30E+00	1.88E-03	4.30E-03	1.10E-04	4.41E-03	6.56E+01	3.56E+02	6.7E-05	1.2E-05
ACENAPHTHYLENE	2.70E-02	1.83E-02	5.04E-05	1.07E-03	1.12E-03	6.56E+01	3.56E+02	1.7E-05	3.1E-06
ANTHRACENE	3.33E+00	9.49E-01	6.22E-03	5.54E-02	6.16E-02	6.56E+01	3.56E+02	9.4E-04	1.7E-04
BENZO(A)ANTHRACENE	5.23E+01	7.01E-01	9.77E-02	4.09E-02	1.39E-01	6.15E-01	3.84E+01	2.3E-01	3.6E-03
BENZO(A)PYRENE	5.66E+01	6.51E+00	1.06E-01	3.80E-01	4.86E-01	6.15E-01	3.84E+01	7.9E-01	1.3E-02
BENZO(B)FLUORANTHENE	7.94E+01	2.46E+01	1.48E-01	1.44E+00	1.58E+00	6.15E-01	3.84E+01	2.6E+00	4.1E-02
BENZO(G,H,I)PERYLENE	4.83E+01	3.87E+01	9.02E-02	2.26E+00	2.35E+00	6.15E-01	3.84E+01	3.8E+00	6.1E-02
BENZO(K)FLUORANTHENE	2.30E+01	1.71E+00	4.30E-02	9.98E-02	1.43E-01	6.15E-01	3.84E+01	2.3E-01	3.7E-03
CHRYSENE	6.68E+01	8.10E-01	1.25E-01	4.73E-02	1.72E-01	6.15E-01	3.84E+01	2.8E-01	4.5E-03
DIBENZO(A,H)ANTHRACENE	1.03E+01	1.34E+00	1.92E-02	7.81E-02	9.74E-02	6.15E-01	3.84E+01	1.6E-01	2.5E-03
FLUORANTHENE	6.14E+01	3.07E+01	1.15E-01	1.79E+00	1.91E+00	6.56E+01	3.56E+02	2.9E-02	5.4E-03
FLUORENE	1.30E+00	3.07E-03	2.43E-03	1.79E-04	2.61E-03	6.56E+01	3.56E+02	4.0E-05	7.3E-06
INDENO(1,2,3-CD)PYRENE	4.84E+01	5.32E+00	9.04E-02	3.11E-01	4.01E-01	6.15E-01	3.84E+01	6.5E-01	1.0E-02
PHENANTHRENE	1.37E+01	4.29E+00	2.56E-02	2.51E-01	2.76E-01	6.56E+01	3.56E+02	4.2E-03	7.8E-04
PYRENE	6.26E+01	4.51E+01	1.17E-01	2.63E+00	2.75E+00	6.15E-01	3.84E+01	4.5E+00	7.2E-02

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	3.29E-02	kg
Food Ingestion Rate = (If)	1.92E-03	kg/day
Soil Ingestion Rate = (Is)	6.14E-05	kg/day
Home Range = (HR)	Assume 100% on site	
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration

MEADOW VOLE - AVERAGE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.23E-02	4.80E-02	3.06E-05	2.34E-03	2.37E-03	6.56E+01	3.56E+02	3.6E-05	6.7E-06
ACENAPHTHYLENE	2.84E-03	3.08E-03	1.66E-06	1.50E-04	1.52E-04	6.56E+01	3.56E+02	2.3E-06	4.3E-07
ANTHRACENE	7.89E-02	5.15E-02	4.61E-05	2.51E-03	2.56E-03	6.56E+01	3.56E+02	3.9E-05	7.2E-06
BENZO(A)ANTHRACENE	9.58E-01	6.50E-02	5.60E-04	3.17E-03	3.73E-03	6.15E-01	3.84E+01	6.1E-03	9.7E-05
BENZO(A)PYRENE	1.06E+00	1.34E-01	6.18E-04	6.54E-03	7.16E-03	6.15E-01	3.84E+01	1.2E-02	1.9E-04
BENZO(B)FLUORANTHENE	1.45E+00	4.48E-01	8.45E-04	2.18E-02	2.27E-02	6.15E-01	3.84E+01	3.7E-02	5.9E-04
BENZO(G,H,I)PERYLENE	8.02E-01	3.04E-01	4.69E-04	1.48E-02	1.53E-02	6.15E-01	3.84E+01	2.5E-02	4.0E-04
BENZO(K)FLUORANTHENE	4.82E-01	6.17E-02	2.82E-04	3.01E-03	3.29E-03	6.15E-01	3.84E+01	5.3E-03	8.6E-05
CHRYSENE	1.18E+00	7.36E-02	6.91E-04	3.59E-03	4.28E-03	6.15E-01	3.84E+01	7.0E-03	1.1E-04
DIBENZO(A,H)ANTHRACENE	1.51E-01	1.97E-02	8.85E-05	9.59E-04	1.05E-03	6.15E-01	3.84E+01	1.7E-03	2.7E-05
FLUORANTHENE	1.21E+00	6.04E-01	7.06E-04	2.94E-02	3.01E-02	6.56E+01	3.56E+02	4.6E-04	8.5E-05
FLUORENE	3.36E-02	7.00E-02	1.97E-05	3.41E-03	3.43E-03	6.56E+01	3.56E+02	5.2E-05	9.6E-06
INDENO(1,2,3-CD)PYRENE	7.90E-01	8.69E-02	4.62E-04	4.23E-03	4.69E-03	6.15E-01	3.84E+01	7.6E-03	1.2E-04
PHENANTHRENE	3.62E-01	4.51E-01	2.12E-04	2.20E-02	2.22E-02	6.56E+01	3.56E+02	3.4E-04	6.2E-05
PYRENE	1.25E+00	8.97E-01	7.29E-04	4.37E-02	4.45E-02	6.15E-01	3.84E+01	7.2E-02	1.2E-03

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	3.66E-02	kg
Food Ingestion Rate = (If)	1.79E-03	kg/day
Soil Ingestion Rate = (Is)	2.14E-05	kg/day
Home Range = (HR)	1.64E-01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration

BOBWHITE QUAIL - CONSERVATIVE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	2.30E+00	1.88E-03	3.24E-02	1.91E-04	3.26E-02	2.00E+00	2.00E+01	1.6E-02	1.6E-03
ACENAPHTHYLENE	2.70E-02	1.83E-02	3.80E-04	1.85E-03	2.23E-03	2.00E+00	2.00E+01	1.1E-03	1.1E-04
ANTHRACENE	3.33E+00	9.49E-01	4.69E-02	9.61E-02	1.43E-01	2.00E+00	2.00E+01	7.1E-02	7.1E-03
BENZO(A)ANTHRACENE	5.23E+01	7.01E-01	7.36E-01	7.09E-02	8.07E-01	2.00E+00	2.00E+01	4.0E-01	4.0E-02
BENZO(A)PYRENE	5.66E+01	6.51E+00	7.96E-01	6.59E-01	1.46E+00	2.00E+00	2.00E+01	7.3E-01	7.3E-02
BENZO(B)FLUORANTHENE	7.94E+01	2.46E+01	1.12E+00	2.49E+00	3.61E+00	2.00E+00	2.00E+01	1.8E+00	1.8E-01
BENZO(G,H,I)PERYLENE	4.83E+01	3.87E+01	6.80E-01	3.92E+00	4.60E+00	2.00E+00	2.00E+01	2.3E+00	2.3E-01
BENZO(K)FLUORANTHENE	2.30E+01	1.71E+00	3.24E-01	1.73E-01	4.97E-01	2.00E+00	2.00E+01	2.5E-01	2.5E-02
CHRYSENE	6.68E+01	8.10E-01	9.40E-01	8.20E-02	1.02E+00	2.00E+00	2.00E+01	5.1E-01	5.1E-02
DIBENZO(A,H)ANTHRACENE	1.03E+01	1.34E+00	1.45E-01	1.36E-01	2.80E-01	2.00E+00	2.00E+01	1.4E-01	1.4E-02
FLUORANTHENE	6.14E+01	3.07E+01	8.64E-01	3.11E+00	3.97E+00	2.00E+00	2.00E+01	2.0E+00	2.0E-01
FLUORENE	1.30E+00	3.07E-03	1.83E-02	3.11E-04	1.86E-02	2.00E+00	2.00E+01	9.3E-03	9.3E-04
INDENO(1,2,3-CD)PYRENE	4.84E+01	5.32E+00	6.81E-01	5.39E-01	1.22E+00	2.00E+00	2.00E+01	6.1E-01	6.1E-02
PHENANTHRENE	1.37E+01	4.29E+00	1.93E-01	4.35E-01	6.27E-01	2.00E+00	2.00E+01	3.1E-01	3.1E-02
PYRENE	6.26E+01	4.51E+01	8.81E-01	4.56E+00	5.44E+00	2.00E+00	2.00E+01	2.7E+00	2.7E-01

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.62E-01	kg
Food Ingestion Rate = (If)	1.64E-02	kg/day
Soil Ingestion Rate = (Is)	2.28E-03	kg/day
Home Range = (HR)	Assume 100% on site	
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

BOBWHITE QUAIL - AVERAGE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Vegetation Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Veget.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.23E-02	4.80E-02	2.60E-04	3.90E-03	4.16E-03	2.00E+00	2.00E+01	2.1E-03	2.1E-04
ACENAPHTHYLENE	2.84E-03	3.08E-03	1.41E-05	2.50E-04	2.64E-04	2.00E+00	2.00E+01	1.3E-04	1.3E-05
ANTHRACENE	7.89E-02	5.15E-02	3.91E-04	4.19E-03	4.58E-03	2.00E+00	2.00E+01	2.3E-03	2.3E-04
BENZO(A)ANTHRACENE	9.58E-01	6.50E-02	4.75E-03	5.29E-03	1.00E-02	2.00E+00	2.00E+01	5.0E-03	5.0E-04
BENZO(A)PYRENE	1.06E+00	1.34E-01	5.24E-03	1.09E-02	1.62E-02	2.00E+00	2.00E+01	8.1E-03	8.1E-04
BENZO(B)FLUORANTHENE	1.45E+00	4.48E-01	7.17E-03	3.65E-02	4.36E-02	2.00E+00	2.00E+01	2.2E-02	2.2E-03
BENZO(G,H,I)PERYLENE	8.02E-01	3.04E-01	3.98E-03	2.47E-02	2.87E-02	2.00E+00	2.00E+01	1.4E-02	1.4E-03
BENZO(K)FLUORANTHENE	4.82E-01	6.17E-02	2.39E-03	5.02E-03	7.41E-03	2.00E+00	2.00E+01	3.7E-03	3.7E-04
CHRYSENE	1.18E+00	7.36E-02	5.86E-03	5.99E-03	1.19E-02	2.00E+00	2.00E+01	5.9E-03	5.9E-04
DIBENZO(A,H)ANTHRACENE	1.51E-01	1.97E-02	7.51E-04	1.60E-03	2.35E-03	2.00E+00	2.00E+01	1.2E-03	1.2E-04
FLUORANTHENE	1.21E+00	6.04E-01	5.99E-03	4.91E-02	5.51E-02	2.00E+00	2.00E+01	2.8E-02	2.8E-03
FLUORENE	3.36E-02	7.00E-02	1.67E-04	5.69E-03	5.86E-03	2.00E+00	2.00E+01	2.9E-03	2.9E-04
INDENO(1,2,3-CD)PYRENE	7.90E-01	8.69E-02	3.92E-03	7.07E-03	1.10E-02	2.00E+00	2.00E+01	5.5E-03	5.5E-04
PHENANTHRENE	3.62E-01	4.51E-01	1.80E-03	3.67E-02	3.85E-02	2.00E+00	2.00E+01	1.9E-02	1.9E-03
PYRENE	1.25E+00	8.97E-01	6.18E-03	7.30E-02	7.92E-02	2.00E+00	2.00E+01	4.0E-02	4.0E-03

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.77E-01	kg
Food Ingestion Rate = (If)	1.44E-02	kg/day
Soil Ingestion Rate = (Is)	8.78E-04	kg/day
Home Range = (HR)	2.86E+01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (vegetation) = (Cv * If)(H)/BW

Cv = Contaminant concentration in vegetation
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (vegetation)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

SHORT-TAILED SHREW - CONSERVATIVE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	2.30E+00	3.38E+00	1.17E-02	5.75E-01	5.86E-01	6.56E+01	3.56E+02	8.9E-03	1.6E-03
ACENAPHTHYLENE	2.70E-02	6.18E-01	1.38E-04	1.05E-01	1.05E-01	6.56E+01	3.56E+02	1.6E-03	3.0E-04
ANTHRACENE	3.33E+00	8.06E+00	1.70E-02	1.37E+00	1.39E+00	6.56E+01	3.56E+02	2.1E-02	3.9E-03
BENZO(A)ANTHRACENE	5.23E+01	8.32E+01	2.67E-01	1.41E+01	1.44E+01	6.15E-01	3.84E+01	2.3E+01	3.8E-01
BENZO(A)PYRENE	5.66E+01	7.53E+01	2.89E-01	1.28E+01	1.31E+01	6.15E-01	3.84E+01	2.1E+01	3.4E-01
BENZO(B)FLUORANTHENE	7.94E+01	2.06E+02	4.05E-01	3.51E+01	3.55E+01	6.15E-01	3.84E+01	5.8E+01	9.2E-01
BENZO(G,H,I)PERYLENE	4.83E+01	1.42E+02	2.46E-01	2.41E+01	2.44E+01	6.15E-01	3.84E+01	4.0E+01	6.3E-01
BENZO(K)FLUORANTHENE	2.30E+01	5.98E+01	1.17E-01	1.02E+01	1.03E+01	6.15E-01	3.84E+01	1.7E+01	2.7E-01
CHRYSENE	6.68E+01	1.53E+02	3.41E-01	2.60E+01	2.63E+01	6.15E-01	3.84E+01	4.3E+01	6.9E-01
DIBENZO(A,H)ANTHRACENE	1.03E+01	2.38E+01	5.25E-02	4.04E+00	4.10E+00	6.15E-01	3.84E+01	6.7E+00	1.1E-01
FLUORANTHENE	6.14E+01	1.87E+02	3.13E-01	3.17E+01	3.20E+01	6.56E+01	3.56E+02	4.9E-01	9.0E-02
FLUORENE	1.30E+00	1.24E+01	6.63E-03	2.11E+00	2.12E+00	6.56E+01	3.56E+02	3.2E-02	6.0E-03
INDENO(1,2,3-CD)PYRENE	4.84E+01	1.38E+02	2.47E-01	2.35E+01	2.38E+01	6.15E-01	3.84E+01	3.9E+01	6.2E-01
PHENANTHRENE	1.37E+01	2.36E+01	6.99E-02	4.01E+00	4.07E+00	6.56E+01	3.56E+02	6.2E-02	1.1E-02
PYRENE	6.26E+01	1.10E+02	3.19E-01	1.86E+01	1.89E+01	6.15E-01	3.84E+01	3.1E+01	4.9E-01

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.53E-02	kg
Food Ingestion Rate = (If)	2.59E-03	kg/day
Soil Ingestion Rate = (Is)	7.78E-05	kg/day
Home Range = (HR)	Assume 100% on site	
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration

SHORT-TAILED SHREW - AVERAGE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.23E-02	7.69E-02	4.60E-05	7.51E-03	7.56E-03	6.56E+01	3.56E+02	1.2E-04	2.1E-05
ACENAPHTHYLENE	2.84E-03	6.49E-02	2.49E-06	6.34E-03	6.35E-03	6.56E+01	3.56E+02	9.7E-05	1.8E-05
ANTHRACENE	7.89E-02	1.91E-01	6.93E-05	1.86E-02	1.87E-02	6.56E+01	3.56E+02	2.9E-04	5.3E-05
BENZO(A)ANTHRACENE	9.58E-01	1.52E+00	8.42E-04	1.49E-01	1.50E-01	6.15E-01	3.84E+01	2.4E-01	3.9E-03
BENZO(A)PYRENE	1.06E+00	1.40E+00	9.29E-04	1.37E-01	1.38E-01	6.15E-01	3.84E+01	2.2E-01	3.6E-03
BENZO(B)FLUORANTHENE	1.45E+00	3.76E+00	1.27E-03	3.67E-01	3.68E-01	6.15E-01	3.84E+01	6.0E-01	9.6E-03
BENZO(G,H,I)PERYLENE	8.02E-01	2.36E+00	7.05E-04	2.30E-01	2.31E-01	6.15E-01	3.84E+01	3.8E-01	6.0E-03
BENZO(K)FLUORANTHENE	4.82E-01	1.25E+00	4.24E-04	1.22E-01	1.23E-01	6.15E-01	3.84E+01	2.0E-01	3.2E-03
CHRYSENE	1.18E+00	2.71E+00	1.04E-03	2.64E-01	2.65E-01	6.15E-01	3.84E+01	4.3E-01	6.9E-03
DIBENZO(A,H)ANTHRACENE	1.51E-01	3.50E-01	1.33E-04	3.42E-02	3.43E-02	6.15E-01	3.84E+01	5.6E-02	8.9E-04
FLUORANTHENE	1.21E+00	3.67E+00	1.06E-03	3.59E-01	3.60E-01	6.56E+01	3.56E+02	5.5E-03	1.0E-03
FLUORENE	3.36E-02	3.22E-01	2.96E-05	3.14E-02	3.15E-02	6.56E+01	3.56E+02	4.8E-04	8.8E-05
INDENO(1,2,3-CD)PYRENE	7.90E-01	2.26E+00	6.94E-04	2.21E-01	2.21E-01	6.15E-01	3.84E+01	3.6E-01	5.8E-03
PHENANTHRENE	3.62E-01	6.23E-01	3.19E-04	6.09E-02	6.12E-02	6.56E+01	3.56E+02	9.3E-04	1.7E-04
PYRENE	1.25E+00	2.18E+00	1.10E-03	2.13E-01	2.14E-01	6.15E-01	3.84E+01	3.5E-01	5.6E-03

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.69E-02	kg
Food Ingestion Rate = (If)	1.65E-03	kg/day
Soil Ingestion Rate = (Is)	1.48E-05	kg/day
Home Range = (HR)	9.70E-01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration

AMERICAN WOODCOCK - CONSERVATIVE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Max Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	2.30E+00	3.38E+00	6.89E-02	6.18E-01	6.86E-01	2.00E+00	2.00E+01	3.4E-01	3.4E-02
ACENAPHTHYLENE	2.70E-02	6.18E-01	8.09E-04	1.13E-01	1.14E-01	2.00E+00	2.00E+01	5.7E-02	5.7E-03
ANTHRACENE	3.33E+00	8.06E+00	9.97E-02	1.47E+00	1.57E+00	2.00E+00	2.00E+01	7.9E-01	7.9E-02
BENZO(A)ANTHRACENE	5.23E+01	8.32E+01	1.57E+00	1.52E+01	1.68E+01	2.00E+00	2.00E+01	8.4E+00	8.4E-01
BENZO(A)PYRENE	5.66E+01	7.53E+01	1.70E+00	1.37E+01	1.54E+01	2.00E+00	2.00E+01	7.7E+00	7.7E-01
BENZO(B)FLUORANTHENE	7.94E+01	2.06E+02	2.38E+00	3.77E+01	4.01E+01	2.00E+00	2.00E+01	2.0E+01	2.0E+00
BENZO(G,H,I)PERYLENE	4.83E+01	1.42E+02	1.45E+00	2.59E+01	2.74E+01	2.00E+00	2.00E+01	1.4E+01	1.4E+00
BENZO(K)FLUORANTHENE	2.30E+01	5.98E+01	6.89E-01	1.09E+01	1.16E+01	2.00E+00	2.00E+01	5.8E+00	5.8E-01
CHRYSENE	6.68E+01	1.53E+02	2.00E+00	2.79E+01	2.99E+01	2.00E+00	2.00E+01	1.5E+01	1.5E+00
DIBENZO(A,H)ANTHRACENE	1.03E+01	2.38E+01	3.09E-01	4.35E+00	4.65E+00	2.00E+00	2.00E+01	2.3E+00	2.3E-01
FLUORANTHENE	6.14E+01	1.87E+02	1.84E+00	3.41E+01	3.59E+01	2.00E+00	2.00E+01	1.8E+01	1.8E+00
FLUORENE	1.30E+00	1.24E+01	3.89E-02	2.27E+00	2.31E+00	2.00E+00	2.00E+01	1.2E+00	1.2E-01
INDENO(1,2,3-CD)PYRENE	4.84E+01	1.38E+02	1.45E+00	2.53E+01	2.67E+01	2.00E+00	2.00E+01	1.3E+01	1.3E+00
PHENANTHRENE	1.37E+01	2.36E+01	4.10E-01	4.30E+00	4.71E+00	2.00E+00	2.00E+01	2.4E+00	2.4E-01
PYRENE	6.26E+01	1.10E+02	1.88E+00	2.00E+01	2.19E+01	2.00E+00	2.00E+01	1.1E+01	1.1E+00

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.66E-01	kg
Food Ingestion Rate = (If)	3.03E-02	kg/day
Soil Ingestion Rate = (Is)	4.97E-03	kg/day
Home Range = (HR)	Assume 100% on site	
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

AMERICAN WOODCOCK - AVERAGE INPUTS - WEST TRAP RANGE
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION - SURFACE SOIL
UXO 7 - RANGES (FORMER RIFLE/PISTOL AND TRAP RANGES)
NSA CRANE, INDIANA

Chemical	Average Soil Conc. (mg/kg)	Invertebrate Conc. (mg/kg)	Dose (mg/kg/d) from: Soil	Dose (mg/kg/d) from: Invert.	Total Dose (mg/kg/d)	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients NOAEL	Hazard Quotients LOAEL
Polycyclic Aromatic Hydrocarbons									
ACENAPHTHENE	5.23E-02	7.69E-02	4.46E-04	1.03E-02	1.07E-02	2.00E+00	2.00E+01	5.3E-03	5.3E-04
ACENAPHTHYLENE	2.84E-03	6.49E-02	2.42E-05	8.66E-03	8.68E-03	2.00E+00	2.00E+01	4.3E-03	4.3E-04
ANTHRACENE	7.89E-02	1.91E-01	6.73E-04	2.54E-02	2.61E-02	2.00E+00	2.00E+01	1.3E-02	1.3E-03
BENZO(A)ANTHRACENE	9.58E-01	1.52E+00	8.17E-03	2.03E-01	2.11E-01	2.00E+00	2.00E+01	1.1E-01	1.1E-02
BENZO(A)PYRENE	1.06E+00	1.40E+00	9.01E-03	1.87E-01	1.96E-01	2.00E+00	2.00E+01	9.8E-02	9.8E-03
BENZO(B)FLUORANTHENE	1.45E+00	3.76E+00	1.23E-02	5.01E-01	5.13E-01	2.00E+00	2.00E+01	2.6E-01	2.6E-02
BENZO(G,H,I)PERYLENE	8.02E-01	2.36E+00	6.84E-03	3.14E-01	3.21E-01	2.00E+00	2.00E+01	1.6E-01	1.6E-02
BENZO(K)FLUORANTHENE	4.82E-01	1.25E+00	4.11E-03	1.67E-01	1.71E-01	2.00E+00	2.00E+01	8.6E-02	8.6E-03
CHRYSENE	1.18E+00	2.71E+00	1.01E-02	3.61E-01	3.71E-01	2.00E+00	2.00E+01	1.9E-01	1.9E-02
DIBENZO(A,H)ANTHRACENE	1.51E-01	3.50E-01	1.29E-03	4.66E-02	4.79E-02	2.00E+00	2.00E+01	2.4E-02	2.4E-03
FLUORANTHENE	1.21E+00	3.67E+00	1.03E-02	4.90E-01	5.00E-01	2.00E+00	2.00E+01	2.5E-01	2.5E-02
FLUORENE	3.36E-02	3.22E-01	2.87E-04	4.29E-02	4.32E-02	2.00E+00	2.00E+01	2.2E-02	2.2E-03
INDENO(1,2,3-CD)PYRENE	7.90E-01	2.26E+00	6.74E-03	3.01E-01	3.08E-01	2.00E+00	2.00E+01	1.5E-01	1.5E-02
PHENANTHRENE	3.62E-01	6.23E-01	3.09E-03	8.31E-02	8.62E-02	2.00E+00	2.00E+01	4.3E-02	4.3E-03
PYRENE	1.25E+00	2.18E+00	1.06E-02	2.91E-01	3.01E-01	2.00E+00	2.00E+01	1.5E-01	1.5E-02

Cells are shaded if the value is greater than 1.0

Body Weight = (BW)	1.90E-01	kg
Food Ingestion Rate = (If)	2.53E-02	kg/day
Soil Ingestion Rate = (Is)	1.62E-03	kg/day
Home Range = (HR)	6.13E+01	acres
Contaminated Area = (CA)	Assume equal to home range	

Dose (soil) = (Cs * Is)(H)/BW
Dose (invertebrate) = (Ci * If)(H)/BW

Ci = Contaminant concentration in invertebrate
Cs = Contaminant concentration in soil
Total Dose = Dose (soil) + Dose (invertebrate)
H=CA/HR (Assume = to 1)

Conc = Concentration
LOAEL = Lowest Observed Adverse Effects Concentration
NOAEL = No Observed Adverse Effects Concentration
NV = No Value

APPENDIX F

SOIL REMOVALS TO SUPPORT RISK REDUCTION AND MITIGATION SUPPORTING DATA

Table F-1
Excavation Subareas and Volumes for West Trap Range, UXO 7 Ranges, NSA Crane, Indiana

Subarea ID	Depth (feet)	Area (sq. ft.)	Acreage (Acres)	Volume (cu. ft.)	Volume (cu. yd.)
1	1	9798	0.225	9,798	363
2	1*	796	0.0183	796	29
3	1*	1050	0.0241	1,050	39
4	1*	167	0.0038	167	6
5	1*	168	0.0039	168	6
6	1*	861	0.0198	861	32
			Total =	**12,839.57**	**476**

*Subareas 2 through 6 are all located within Subarea 1 which removes the top one foot of soil. Subareas 2 through 6 all extend to total excavation depths of 2 feet, therefore only one additional foot of excavation will be required in Subareas 2 through 6 to reach the required depth.

Table F-2
Excavation Subareas and Volumes for East Trap Range, UXO 7 Ranges, NSA Crane, Indiana

Subarea ID	Depth (feet)	Area (sq. ft.)	Acreage (Acres)	Volume (cu. ft.)	Volume (cu. yd.)
1	1	800	0.0184	800	30
2	2	1250	0.0287	2500	93
3	4	1225	0.0281	4900	181
4	1	888	0.0204	888	33
5	2	400	0.0092	800	30
6	2	2867	0.0658	5734	212
7	4*	400	0.0092	1600	59
			Totals =	**17,222.00**	**638**

*Subarea 7 is located within Subarea 6 which removed the top two feet of soil. Subarea 7 extends to an total excavation depth of 6 feet, so only 4 additional feet of excavation will be required in Subarea 7.

Table F-3
Excavation Subareas and Volumes for Northernmost Area, UXO 7 Ranges, NSA Crane, Indiana

Subarea ID	Depth (feet)	Area (sq. ft.)	Acreage (Acres)	Volume (cu. ft.)	Volume (cu. yd.)
1	2	251	0.006	502	19
2	1	100	0.002	100	4
			Total =	**602.00**	**23**

Table F-4
Excavation Subareas and Volumes for Central Area, UXO 7 Ranges, NSA Crane, Indiana

Subarea ID	Depth (feet)	Area (sq. ft.)	Acreage (Acres)	Volume (cu. ft.)	Volume (cu. yd.)
1	5	6141	0.141	30,705	1,137
2	2	100	0.0023	200	7
3	2	100	0.0023	200	7
4	4	1891	0.0434	7,564	280
5	5	2916	0.0669	14,580	540
6	2	4067	0.0934	8,134	301
7	2	100	0.0023	200	7
8	3	1719	0.0395	5,157	191
9	3	100	0.0023	300	11
10	2	100	0.0023	200	7
			Total =	**67,240.00**	**2490**

Table F-5
Excavation Subareas and Volumes for Southernmost Area, UXO 7 Ranges, NSA Crane, Indiana

Subarea ID	Depth (feet)	Area (sq. ft.)	Acreage (Acres)	Volume (cu. ft.)	Volume (cu. yd.)
1	6	1776	0.041	10,656	395
			Total =	**10,656.00**	**395**