F	REPORT DOC	CUMENTATION	ON PAGE		Form Approved OMB No. 0704-0188
				iowing instructions, soor	ching existing data sources, gathering and maintaining the
					ollection of information, including suggestions for reducing
this burden to Department of I	Defense, Washington Headquar	rters Services, Directorate for	Information Operations and Reports	s (0704-0188), 1215 Jeff	erson Davis Highway, Suite 1204, Arlington, VA 22202-
	e aware that notwithstanding an LEASE DO NOT RETURN YOU			for failing to comply wit	h a collection of information if it does not display a currently
1. REPORT DATE (DI		2. REPORT TYPE		3. [DATES COVERED (From - To)
27-01-2012	,	Technical			nuary 2012
4. TITLE AND SUBTIT		Toominour			CONTRACT NUMBER
Final Project Mana					912QR-04-D-0039
_		n and Damadiation	at 14 Compliance Des		GRANT NUMBER
	mentai investigatio	n and Remediation	at 14 Compliance Res		
Sites				N/A	
Revision 0					PROGRAM ELEMENT NUMBER
Ravenna Army An	nmunition Plant, Rav	venna, Ohio		N/A	A
6. AUTHOR(S)				5d.	PROJECT NUMBER
Easterday, Al				51	61.004
,,,					TASK NUMBER
					livery Order No. 0004
					WORK UNIT NUMBER
				N/.	A
7. PERFORMING ORG	GANIZATION NAME(S)	AND ADDRESS(ES)		-	PERFORMING ORGANIZATION REPORT
				1	NUMBER
ECC				N/.	A
33 Boston Post Ro	oad West, Suite 340)			
	ssachusetts 01752				
ivianiborough, ivia	ssaciiusetts 01/32				
	ONITORING AGENCY I		ESS(ES)		SPONSOR/MONITOR'S ACRONYM(S)
U.S. Army Corps	of Engineers - Lou	iisville District		US	SACE
600 Martin Luther	King Jr. Place				
Louisville, Kentuc	•			11.	SPONSOR/MONITOR'S REPORT
Louisville, Remark	жу 40202 0037				NUMBER(S)
				N/A	
40 DICTRIBUTION /	AVAIL ADILITY CTATE	MENT		11/2	A
12. DISTRIBUTION / F	AVAILABILITY STATE	VIEN I			
D . C					
Reference distribu	ition page.				
13. SUPPLEMENTAR	Y NOTES				
None.					
Tione.					
14. ABSTRACT					
The Project Mana	gement Plan (PMP) describes ECC's	activities to be perfo	rmed for this ta	ask order and meeting the
requirements of th	e Performance Wo	rk Statement date	d May 3, 2011. This	PMP presents	the project team roles and
					with RVAAP stakeholders, as well
				s coordination	with KVAAI stakeholders, as well
as other facility er	vironmental and o	perational activitie	es.		
15. SUBJECT TERMS					
Project Manageme	ent Plan, organizati	onal chart, project	t team, roles and resp	onsibilities, del	liverables, project schedule,
communication.			-		
16. SECURITY CLASS	SIFICATION OF		17. LIMITATION	18. NUMBER	19a. NAME OF RESPONSIBLE PERSON
. S.			OF ABSTRACT	OF PAGES	Al Easterday
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER (include area
UU	UU	UU	UU	108	code)
~ ~					

UU

UU

UU

(508) 229-2270

Final Project Management Plan

2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites Revision 0 Ravenna Army Ammunition Plant Ravenna, Ohio

Contract No.: W912QR-04-D-0039 Delivery Order: 0004

Prepared for:



U.S. Army Corps of Engineers, Louisville District 600 Dr. Martin Luther King Jr. Place Louisville, Kentucky 40202-2267

Prepared by:



ECC 33 Boston Post Road West Suite 340 Marlborough, MA 01752

January 27, 2012

DOCUMENT DISTRIBUTION

for the

Final Project Management Plan 2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites

Revision 0

Ravenna Army Ammunition Plant Ravenna, Ohio

Name/Organization	Number of Printed Copies	Number of Electronic Copies
Eileen Mohr, Ohio EPA - NEDO	1	2
Kevin Palombo, Ohio EPA - NEDO	1	2
J. Kimberly Harriz, NGB	0	1
Katie Tait, OHARNG	1	1
Mark Patterson, RVAAP Facility Manager	2	2
Eric Cheng, USACE – Louisville District	3	3
Mark Eldridge, USAEC	0	1
REIMS	0	1
ECC Project File	1	1

Ohio EPA – NEDO = Ohio Environmental Protection Agency Northeast District Office

NGB = National Guard Bureau

OHARNG = Ohio Army National Guard

RVAAP = Ravenna Army Ammunition Plant

USACE = United States Army Corps of Engineers

REIMS = Ravenna Environmental Information Management System

ECC = Environmental Chemical Corporation

CONTRACTOR'S STATEMENT OF INDEPENDENT TECHNICAL REVIEW

ECC has completed the *Final Project Management Plan for the Environmental Investigation and Remediation at 14 Compliance Restoration Sites at Ravenna Army Ammunition Plant, Ravenna, Ohio.* Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in this project. During the independent technical review, compliance with established policy principals and procedures, utilizing justified and valid assumptions was verified. This included review of data quality objectives; technical assumptions, methods, procedures, and materials used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with the law and existing United States Corps of Engineers policy.

Outra MacDonald	January 27, 2012
Debra MacDonald, PMP Project Manager	Date
Curt Varner, P.E. for	January 27, 2012
Willard Murray, Ph.D., P.E. Senior Engineer	Date

TABLE OF CONTENTS

EXEC	CUTIVE SUMMARY	1
1.0 1.1 1.2 1.3 1.4 1.5	INTRODUCTION	3 9 12
2.0	PROJECT TEAM ORGANIZATION	
3.	PROJECT COORDINATION Project Stakeholders Coordination and Communication 2.1 Monthly Status Reports 2.2 Milestone Presentations 2.3 Phone Conferences/Informal Site Meetings Regulatory Coordination Public Involvement Ohio Army National Guard	25 25 27 27 27
4.0 4.1 4.2 4.3 4.4 4.5	DELIVERABLES	34 34 34
5.0 5.1 5.2	QUALITY MANAGEMENT Quality Control Testing Data Quality Management	38
6.0 6.1 6.2	SITE LOGISTICS	41
7.0	RECORDS MANAGEMENT	43
8.0 8.1 8.2	GOVERNMENT RESOURCES	45
9.0	REFERENCES	47

LIST OF FIGURES

T' 11 T		_
	Location Map – Ravena Army Ammunition Plant	
	Site Map – RVAAP/Camp RavennaProject Organizational Chart	
	Monthly Progress Report	
8		
	LIST OF TABLES	
Table 1-1 Po	erformance Objectives and Standards	9
	ormer Underground Storage Tanks at RVAAP	
	ey Personnel for Ravenna Army Ammunition Plant	
	equired Deliverables List	
	ocument Distribution List	
	LIST OF APPENDICES	
Appendix B Appendix C	Project Schedule (Subject to Change) Milestone Payment Schedule Communication Plan Correspondence and Comment Response Table	

ACRONYMS AND ABBREVIATIONS

ACM Asbestos Containing Material

AEDB-R Army Environmental Database-Restoration Module

AOC Area of Concern

APP Accident Prevention Plan

ASSHP Abbreviated Site Safety and Health Plan

AST Aboveground Storage Tank

ASTM American Society for Testing and Materials

bgs below ground surface

BRACD Base Realignment and Closure Division

C Central

CAS Chemical Abstracts Services

CERCLA Comprehensive Environmental, Response, Compensation, and Liability Act

CIH Certified Industrial Hygienist
CLIN Contract Line Item Number
CR Compliance Restoration

COR Contracting Officer Representative

CRF Central Records Facility

CSDGM Content Standard for Digital Geospatial Metadata

CSP Certified Safety Professional CWM Chemical Warfare Material

DDESB Department of Defense Explosives Safety Board
DERP Defense Environmental Restoration Program
DERR Division of Emergency and Remedial Response

DFFO Director's Final Findings and Orders

DLA Defense Logistics Agency
DoD Department of Defense
DQO Data Quality Objective

EC Electronic copy

EDD Electronic Data Deliverable

EM Engineering Manual

EPA Environmental Protection Agency

ERIS Environmental Restoration Information System

FAR Federal Acquisition Regulations
FGDC Federal Geographic Data Committee
FWSHP Facility-Wide Safety and Health Plan
GIS Geographic Information System
GPS Global Positioning System

HC Hard copy

HRR Historical Records Review

HTRW Hazardous, Toxic, and Radioactive Waste

IAP Installation Action Plan

IRP Installation Restoration Program

ACRONYMS AND ABBREVIATIONS (CONTINUED)

IMCOM Installation Management Command

km Kilometer
LL #2 Load Line 2
LL #6 Load Line 6
LL #12 Load Line 12

LCG Louisville Chemistry Guideline

MC Munitions Constituent
MD Munitions Debris

MEC Munitions and Explosives of Concern

MR Munitions Response
MRS Munitions Response Site

N North

NCP National Contingency Plan

NE Northeast

NEDO Northeast District Office

NELAC National Environmental Laboratory Accreditation Conference NELAP National Environmental Laboratory Accreditation Program

NGA National Geospatial-Intelligence Agency

NGB National Guard Bureau

NPDES National Pollutant Discharge Elimination System

NPL National Priorities List

NSSDA National Standard for Spatial Data Accuracy

OFFO Office of Federal Facilities Oversight

OHARNG Ohio Army National Guard

Ohio EPA Ohio Environmental Protection Agency

PBA Performance-Based Acquisition

PE Professional Engineer
PG Professional Geologist

PH Powerhouse PM Project Manager

PMP Project Management Plan

POC Point of Contract

PPE Personal Protective Equipment
PWS Performance Work Statement
QA/QC Quality Assurance/Quality Control
QAPP Quality Assurance Project Plan

QSM Quality Systems Manual RAB Restoration Advisory Board

REIMS RVAAP Environmental Information Management System

RI Remedial Investigation

RIP Remedy In Place

ACRONYMS AND ABBREVIATIONS (CONTINUED)

ROE Right of Entry Railroad

RRD Range-Related Debris

RVAAP Ravenna Army Ammunition Plant

S South

SARA Superfund Amendments and Reauthorization Act

SDSFIE Spatial Data Standards for Facilities, Infrastructure, and Environment

SI Site Inspection SOW Scope of Work

SRC Site Related Constituents

SS South Service

SSHP Site Safety and Health Plan

TM Task Manager

USACE United States Army Corps of Engineers

USACHPPM United States Army Center for Health Promotion and Preventive Medicine

USAEC United States Army Environmental Command

USATCES United States Army Technical Center for Explosive Safety

UST Underground Storage Tank
UTM Universal Transverse Mercator

UXO Unexploded Ordnance WGS World Geodetic System

WW Waterworks

This Page Intentionally Left Blank

EXECUTIVE SUMMARY

The Project Management Plan (PMP) presents the management plan for ECC's task order under Contract Number W912QR-04-D-0039, Delivery Order Number 0004 for the U.S Army Corps of Engineers (USACE), Louisville District. In accordance with the Performance Work Statement (PWS) dated May 3, 2011 for this Performance-Based Acquisition (PBA), firm fixed price task order, ECC is tasked with executing environmental investigations and remediation activities at 14 Compliance Restoration (CR) sites at the Ravenna Army Ammunition Plant (RVAAP) in Ravenna, Ohio. This Project Management Plan presents the team organization, statement of work, coordination details, deliverables, quality, schedule, site logistics and record management for this task order for the following CR sites at RVAAP:

- CC-RVAAP-68 Electric Substations (East, West, No. 3);
- CC-RVAAP-69 Building 1048 Fire Station;
- CC-RVAAP-70 East Classification Yard;
- CC-RVAAP-71 Barn No. 5 Petroleum Release;
- CC-RVAAP-72 Facility-Wide Underground Storage Tanks;
- CC-RVAAP-73 Facility-Wide Coal Storage;
- CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift;
- CC-RVAAP-75 George Road Sewage Treatment Plant;
- CC-RVAAP-76 Depot Area;
- CC-RVAAP-77 Building 1037 Laundry Waste Water Sump;
- CC-RVAAP-78 Quarry Pond Surface Dump;
- CC-RVAAP-79 DLA Ore Storage Sites Remaining Ore Sites;
- CC-RVAAP-80 Group 2 Propellant Can Tops; and
- CC-RVAAP-83 Former Buildings 1031 and 1039.

This Page Intentionally Left Blank

1.0 INTRODUCTION

ECC is submitting this Draft Project Management Plan (PMP) to the U.S. Army in accordance with the Performance Work Statement (PWS), Contract No. W912QR-04-D-0039, Task Order 0004 for performance-based, firm fixed-price environmental services at 14 Compliance Restoration (CR) Sites at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio. The Delivery Order was issued by the United States Army Corps of Engineers, Louisville District on August 15, 2011.

1.1 Installation Setting and Status

The RVAAP (Federal Facility Identification number: OH213820736) is located in northeastern Ohio within Portage and Trumbull Counties, approximately 3 miles east-northeast of the city of Ravenna (Figure 1-1). The installation is approximately 11 miles long and 3.5 miles wide bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garret, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on the north; and State Route 534 on the east. The Installation is surrounded by several communities: Windham on the north, Garrettsville 6 miles to the northwest, Newton Falls 1 mile to the southeast, Charlestown to the southwest, and Wayland 3 miles to the south.

As of February 2006, administrative control of 20,403 acres of the former 21,683 acre RVAAP have been transferred to the National Guard Bureau (NGB) and subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a military training site. Currently, RVAAP consists of 1,280 acres in several distinct parcels scattered throughout the confines of the Camp Ravenna Joint Military Training Center (Camp Ravenna). These 1,280 acres consist of former industrial facilities that are being remediated and managed by the Base Realignment and Closure Division (BRACD).

During the operational years, prior to Camp Ravenna, the entire 21,683- acre property was a government-owned, contractor-operated industrial facility. The RVAAP CR Sites encompass investigation and remediation of past activities over the entire 21,683 acres of the former RVAAP; therefore, references to the RVAAP in this PMP are considered to be inclusive of the historical extent of the RVAAP, which is inclusive of the combined acreages of the current Camp Ravenna and RVAAP, unless otherwise specifically stated.

RVAAP is bound to the Director's Final Findings and Orders (DFFOs) issued June 10, 2004 by the Ohio Environmental Protection Agency (Ohio EPA) pursuant to the authority vested under Chapters 3734, 3745, and 6111 of the Ohio Revised Code (ORC). The objective of the Orders is to ensure that the public health, safety, and welfare, as well as the environment, is protected from the disposal, discharge, or release of contaminants. RVAAP is not on the USEPA National Priorities List (NPL), although it is in the USEPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database. The Ohio EPA is the lead environmental regulator at the RVAAP. The installation is bound to the DFFOs, issued on

June 10, 2004 by the Ohio EPA. The DFFOs form the basis for the implementation of a CERCLA based environmental remediation program at the installation.

1.2 Scope of Work

Under this Delivery Order, ECC will perform environmental investigation and remediation activities at the 14 CR Sites listed in the PWS dated May 3, 2011. This PMP describes ECC's approach to executing this project and meeting the requirements of the PWS. This PMP includes a discussion of project team roles and responsibilities, an organizational chart, deliverable matrix, and addresses coordination with RVAAP stakeholders, as well as other facility environmental and operational activities. This PMP will be updated as necessary throughout the remainder of the contract. Updates to the PMP shall be noted as Revisions and numbered sequentially. The approved PMP will initially be designated as Revision 0.

This PMP is applicable to all environmental investigation and remedial activities to be conducted by ECC and ECC subcontractors for the 14 CR sites identified in the PWS. All references to managers, organizations, and processes in this document are intended to refer to ECC's management team, organization, and processes, unless otherwise specified. The locations of the 14 CR sites are provided on Figure 1-2, and are listed as follows:

- CC-RVAAP-68 Electric Substations (East, West, No. 3);
- CC-RVAAP-69 Building 1048 Fire Station;
- CC-RVAAP-70 East Classification Yard;
- CC-RVAAP-71 Barn No. 5 Petroleum Release;
- CC-RVAAP-72 Facility-Wide Underground Storage Tanks;
- CC-RVAAP-73 Facility-Wide Coal Storage;
- CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift;
- CC-RVAAP-75 George Road Sewage Treatment Plant;
- CC-RVAAP-76 Depot Area;
- CC-RVAAP-77 Building 1037 Laundry Waste Water Sump;
- CC-RVAAP-78 Quarry Pond Surface Dump;
- CC-RVAAP-79 DLA Ore Storage Sites Remaining Ore Sites;
- CC-RVAAP-80 Group 2 Propellant Can Tops; and
- CC-RVAAP-83 Former Buildings 1031 and 1039.

The work to be completed under the PWS shall comply with all applicable Federal, State, and local rules, laws, and regulations in order to successfully complete all performance objectives in a manner that is consistent with any applicable orders and permits, all previously agreed-upon and future cleanup agreements, guidance for the RVAAP BRAC program, and relevant Department of Defense (DOD) and Army policies, for the duration of this Delivery Order. All environmental services will comply with CERCLA, the Superfund Amendments and Reauthorization Act (SARA), and the National Oil and Hazardous Substances Contingency Plan (NCP) in coordination with the Ohio EPA and the United States Environmental Protection Agency (USEPA), Region 5, requirements as applicable.

Figure 1-1 Location Map – Ravena Army Ammunition Plant

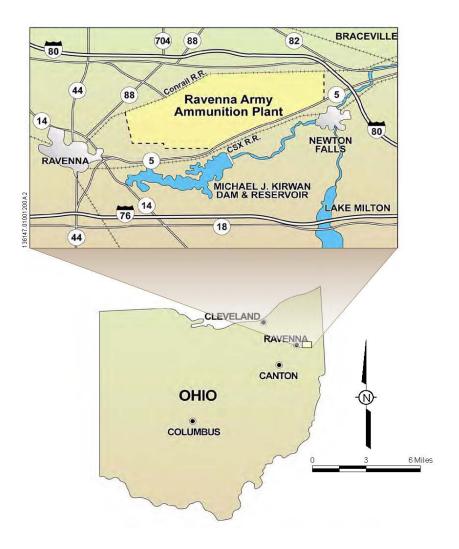
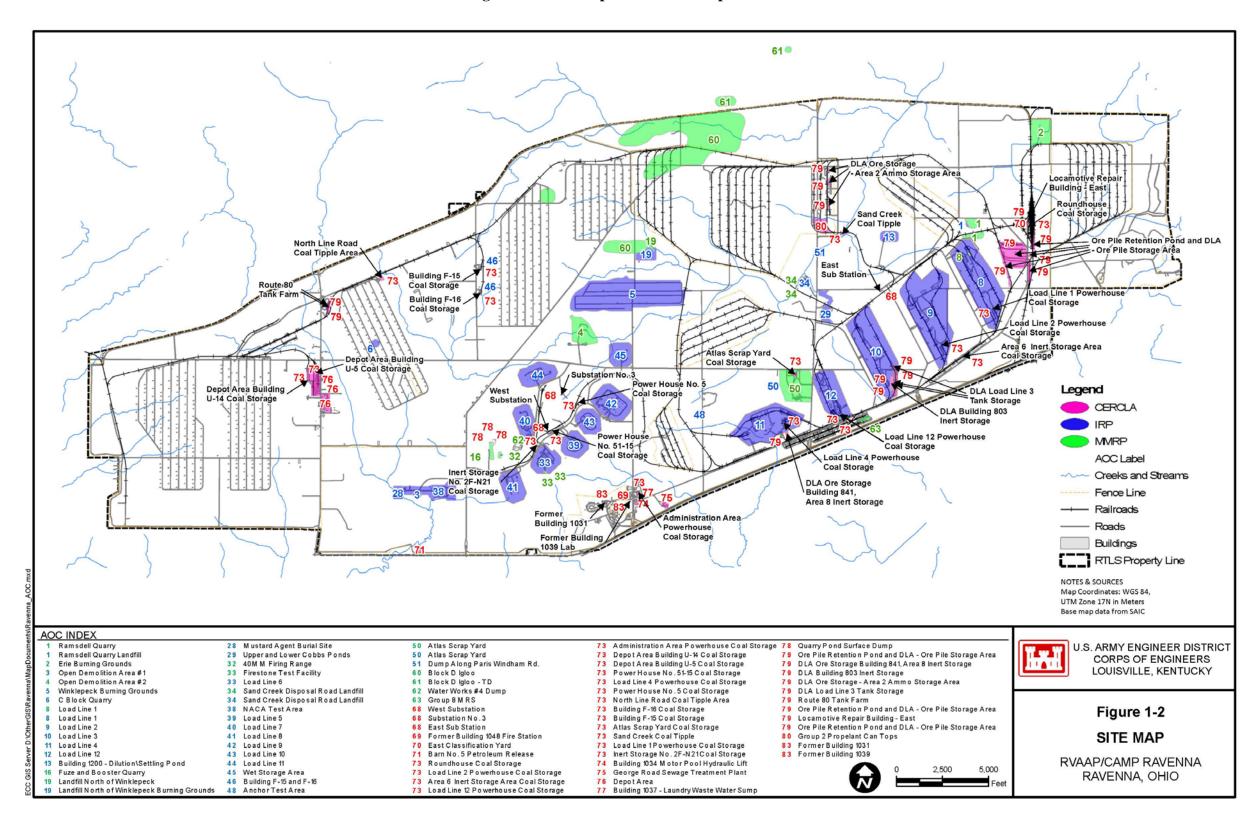


Figure 1-1 Location Map Ravenna Army Ammunition Plant Ravenna, Ohio

This Page Intentionally Left Blank

Figure 1-2 Site Map – RVAAP/Camp Ravenna



This Page Intentionally Left Blank

1.3 Performance Objectives

ECC will furnish all labor, materials, and equipment necessary to meet the performance objectives and standards identified in Table 1-1.

Table 1-1 Performance Objectives and Standards

Performance Objectives	Performance Standards
Achieve Approved Project Management Plan (PMP) and Quality Assurance Surveillance Plan (QASP) within 6 months of Notice to Proceed: - Draft PMP submittal within 30 calendar days of contract award - Final PMP submittal within 30 calendar days of receipt of COR/Ohio EPA comments on the draft - Draft QASP submittal within 30 calendar days of contract award	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming Final PMP approval).
	Army approval through the Contracting Officer's Representative (COR).
Achieve an approved Historical Records Review for the following sites by 30 July 2012:	Army approval through the Contracting Officer's Representative (COR), and Ohio
CC-RVAAP-71 Barn No. 5 Petroleum Release CC-RVAAP-83 Former Buildings 1031 and 1039	EPA concurrence (i.e., receipt of Ohio EPA documentation confirming Final Historical Records Review Report approval).
Option: Achieve an approved Site Inspection (SI) at the following site by 30 July 2013:	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of
CC-RVAAP-71 Barn No. 5 Petroleum Release	Ohio EPA documentation confirming Final SI Report approval).
Option: Achieve an approved Site Inspection (SI) at the following site by 30 July 2013:	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of
CC-RVAAP-83 Former Buildings 1031 and 1039	Ohio EPA documentation confirming Final SI Report approval).
Achieve an approved Site Inspection (SI) at the following sites by 30 July 2013:	Army approval through the Contracting Officer's Representative (COR), and Ohio
CC-RVAAP-70 East Classification Yard CC-RVAAP-72 Facility-Wide Underground Storage Tanks CC-RVAAP-75 George Road Sewage Treatment Plant CC-RVAAP-77 Building 1037-Laundry Waste Water Sump	EPA concurrence (i.e., receipt of Ohio EPA documentation confirming SI approvals).

Performance Objectives	Performance Standards
Achieve an approved Remedial Investigation (RI) for all media, except groundwater, at the following site by 30 May 2014:	Army approval through the Contracting Officer's Representative (COR), and Ohio
CC-RVAAP-79 DLA Ore Storage Site – Main Ore Storage Yard	EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Achieve an approved Feasibility Study (FS) for all media, except groundwater, at the following site by 30 June 2014:	Army approval through the Contracting Officer's Representative (COR), and Ohio
CC-RVAAP-76 Depot Area	EPA concurrence (i.e., receipt of Ohio EPA documentation confirming FS approval).
Achieve an approved Remedial Investigation (RI) for all media, except groundwater, at the following sites by 30 July 2015: CC-RVAAP-68 Electric Substations (East, West, No.3) CC-RVAAP-69 Building 1048-Fire Station CC-RVAAP-73 Facility-Wide Coal Storage CC-RVAAP-74 Building 1034-Motor Pool Hydraulic Lift CC-RVAAP-78 Quarry Pond Surface Dump CC-RVAAP-79 DLA Ore Storage Sites-Remaining Ore Sites	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Option: Achieve an approved Remedial Investigation (RI) for all media, except groundwater, at CC-RVAAP-70 East Classification Yard by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-71 Barn No. 5 Petroleum Release by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-72 Facility-Wide Underground Storage Tanks by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-75 (George Road Sewage Treatment Plant) by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).

Performance Objectives	Performance Standards
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-77 Building 1037- Laundry Waste Water Sump by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-80 Group 2 Propellant Can Tops by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-83 Former buildings 1031 and 1039 by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following sites located within Load Lines 1, 2, 3, 4, and 12 by 30 August 2013: CC-RVAAP-73 Facility-Wide Coal Storage CC-RVAAP-79 DLA Ore Storage Sites	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following site by 30 May 2014: CC-RVAAP-79 DLA Ore Storage Site – Main Ore Storage Yard	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following sites by 30 July 2015: CC-RVAAP-73 Facility-Wide Coal Storage – Remaining Sites CC-RVAAP-74 Building 1034-Motor Pool Hydraulic Lift CC-RVAAP-78 Quarry Pond Surface Dump CC-RVAAP-79 DLA Ore Storage Sites - Remaining Sites	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Option: Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following site by 30 July 2015: CC-RVAAP-72 Facility-Wide Underground Storage Tanks	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).

Performance Objectives	Performance Standards
Option:	Army approval through the
Achieve Non-Time-Critical Removal Action Appropriate for	Contracting Officer's
Future Land Use at the following site by 1 August 2015:	Representative (COR), and Ohio
	EPA concurrence (i.e., receipt of
CC-RVAAP-75 George Road Sewage Treatment Plant	Ohio EPA documentation
CC RVIIII 73 George Roud Sewage Treatment Faint	confirming RI approval).
For all Remedies, optimize capital and long-term costs.	Acceptance by the COR that the
	Contractor has demonstrated that
	the proposed remedy represents
	the lowest 30-year present worth
	cost to the Army, and is
	acceptable to the Ohio EPA.

1.4 Project Management Plan Organization

This PMP is organized following the requirements as stated in the PWS and includes the following sections:

- Section 1.0 Introduction
- Section 2.0 Project Management Organization
- Section 3.0 Project Coordination
- Section 4.0 Deliverables
- Section 5.0 Quality Management
- Section 6.0 Site Logistics
- Section 7.0 Records Management
- Section 8.0 Government Resources
- Section 9.0 References

1.5 Compliance Restoration Sites Operational History/Description

CC-RVAAP-68 Electric Substations (East, West, and No. 3)

Three electrical substations are included in this site. The east electrical substation comprises an area of approximately 12,300 square feet, which includes the land surrounding Building 25-27. There are no documented releases; however, aerial photographs and visual observations demonstrate stressed vegetation and staining outside the building, and around the former transformers. Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and polychlorinated biphenyl's (PCBs) are possible contaminants of concern (COCs) for soil. The west electrical substation comprises an area of approximately 3,000 square ft., which includes the land around Building 28-28 and the surrounding land formerly used as the transformer station. This Area of Concern (AOC) excludes Building 28-28. One spill of approximately 500 gallons of transformer fluid occurred on the north side of the building. The impacted area was cleaned up by Emerald Environmental in 1997. Possible impacted soils may exist outside the building around the former transformers. VOCs, SVOCs, and PCBs are possible

COCs for soil. Substation No. 3 comprises an area of approximately 10,000 square feet. The substation and all transformer equipment have been removed from the site. There are no documented releases; however, aerial photographs and visual observations demonstrate stressed vegetation and staining outside the building, and around the former transformers. VOCs, SVOCs, and PCBs are possible COCs for soil.

CC-RVAAP-69 Building 1048 Fire Station

The fire station was located in the former Plant Administration Area in the northwest quadrant of the intersection of George Road and South Service Road. In 1968, the fire station was referred to as the Fire and Guard Building, and consisted of 12,130 square feet. The fire station building was demolished in late 2008, and the site currently remains undeveloped. Reportedly, it was common practice for the fire department to clean out fire extinguishers behind the west side of the fire building, and to allow the contents of the fire extinguishers (carbon tetrachloride) to spill onto the ground surface. The area of potential impact at this AOC includes the ground surface, located to the north – northwest of the former building location.

CC-RVAAP-70 East Classification Yard

The Ravenna facility was originally equipped with east and west classification yards during the facility's early operational years. The classification yards were used for the switching and maintenance of railroad cars and locomotives. The east classification yard is located east of Load Line 1 and the Main Defense Logistics Agency (DLA) Ore Storage Area in close proximity to the intersection of Ramsdell Road and Irons Road. The east classification yard Areas of Concern consists of Building 47-40 (Round House, still exists but is not actively used), the former herbicide storage shed (former Building 47-60), the containment area for former AST (documented spill of No. 5 fuel oil occurred within the containment area in 1986), and an outdoor open wash rack south of the East Classification Yard (north of Butts-Kistler Road). A railroad track complex is located east of the CR site and is currently utilized by the OHARNG.

CC-RVAAP-71 Barn No. 5 Petroleum Release

The site location is a vacant property along the southern property fence line in close proximity to former Post No. 6. There is a documented release on 13 May 1964 of approximately 20 barrels of gasoline to the ground surface inside of the south fence near Barn No. 5. The release occurred from a buried Standard Oil of Ohio (Sohio) pipeline.

CC-RVAAP-72 Facility-Wide Underground Storage Tanks

Facility records document the former presence and use of 50 underground storage tanks (USTs) at the Ravenna facility. Approximately 34 of the USTs were installed in 1941, with the remaining USTs installed between 1941 and 1981. The USTs were used for the storage of gasoline, diesel fuel, No. 5 heating oil, and No. 6 fuel oil. The USTs located in the Depot Area were reportedly filled with potassium dichromate to prevent corrosion when not in use. Readily available records suggest that nearly all of the USTs have been closed by removal, and the tanks have been scrapped. Table 1-2 presents a list of the former USTs at RVAAP. Closure documents

and official tank status records have not been obtained for most of the USTs. As such, additional records searches are required to further characterize the USTs. Petroleum and/or potassium dichromate impacted soils and/or groundwater may exist at several of the former UST sites. Possible USTs that were located within the Atlas Scrap Yard (Service Stations #1 and #2) are located within a Munitions Response Site (MRS), and Munitions and Explosives of Concern (MEC) avoidance procedures will be required for property visits and perimeter surveys in this area.

CC-RVAAP-73 Facility-Wide Coal Storage

Facility records document the former presence of approximately 17 coal storage locations at the Ravenna facility. Coal was historically used to fuel powerhouses and various other buildings at the site. Typically, coal storage consisted of placing the coal on the ground surface as coal piles or placing the coal in railcars adjacent to the subject buildings. The total area of potentially impacted media associated with the coal consists of approximately 222,500 square feet (about 5 acres). Coal storage occurred at the following locations on the Ravenna property:

- Load Line 1 Powerhouse;
- Load Line 2 Powerhouse;
- Building F-15;
- Building F-16;
- Atlas Scrap Yard (MRS);
- North Line Road Coal Tipple;
- Sand Creek Coal Tipple;
- East Classification Yard Round House;
- Administration Area:
- Depot Area Building U-5;
- Depot Area Building U-14;
- Fuze and Booster Road Powerhouse No. 5;
- Fuze and Booster Road Inert Storage No. 2F-N21;
- Fuze and Booster Service Road Powerhouse; and
- Area 6 Inert Storage.

Former coal storage sites located within Atlas Scrap Yard may also be within the Atlas Scrap Yard MRS; therefore, MEC avoidance procedures may be required for property visits and perimeter surveys in these areas.

Table 1-2 Former Underground Storage Tanks at RVAAP

Tank Number	Location	Tank Number	Location
RV-1	George Road Gas Station	RV-51	WW #4 – Gen
RV-2	George Road Gas Station	RV-52	Old ATLAS – Building T-18
RV-3	Post #1 Generator	RV-55	PH #1
RV-10	Post 24, Building F-4	RV-56	PH #1
RV-11	RR Yard	RV-57	PH #2
RV-12	PH #6	RV-58	PH #2
RV-13	Building U-6 (N) Depot	RV-59	PH #4
RV-14	Building U-6 (S) Depot	RV-60	PH #4
RV-15	Building U-3 (S) Depot	RV-61	PH #5
RV-16	Building U-3 (N) Depot	RV-62	PH #5
RV-17	Building A-6 (N) Depot	RV-63	PH #7
RV-18	Building A-6 (C) Depot	RV-64	PH #7
RV-19	Building A-6 (S) Depot	RV-66	PH #6
RV-20	Building DB-27 LL #2	RV-67	PH #6
RV-21	Building DB-27 LL #2	RV-73	Building T-2501
RV-22	RR Yard	RV-80	George Road Gas Station
RV-23	Building 1045	RV-81	Building 1047
RV-29	Building FE-22 LL #12	RV-82	Building 1047
RV-33	Deactivation Furnace	RV-83	Building 1047
RV-37	Building A-1 Depot	RV-86	Telephone Building (100' N)
RV-41	Building 2F-11 LL #6	RV-87	Telephone Building (NE)
RV-46	EE-102 (Bolton House)	RV-88	Fire Station #2
RV-47	Post 32 (Freedom)	RV-89	George Road Sewage
RV-50	WW #4 – Heat		

C = Central

LL #2 = Load Line 2

LL #12 = Load Line 12

LL #6 = Load Line 6

N = North

NE = Northeast

PH = Powerhouse

RR = Railroad

S = South

SS = South Service

WW = Waterworks

CC-RVAAP-74 Building 1034 - Motor Pool Hydraulic Lift

An in-ground hydraulic floor lift system has been identified inside the existing Motor Pool building. The hydraulic floor lift system is described in a 1969 drawing as a twin-post lift system constructed of metal. The below-grade system consists of a cast in concrete "L" shaped pit measuring approximately 12 feet (long portion of the "L" shape) and 4 feet (short portion of the "L" shape) in length, 3 feet in width, and 4 feet in depth. The pit is reportedly buried at depths ranging from 4 feet below ground surface (bgs) to approximately 8 feet bgs. The twin-post lift reportedly has a clearance of 6 feet between the floor surface and the bottom of the lift (height in the air). The floor lift system remains in place. It is also believed that an additional floor lift system was historically used at the Building 1034 Motor Pool facility.

CC-RVAAP-75 George Road Sewer Treatment Plant

The George Road Sewer Treatment Plant is an inactive domestic sewage treatment plant. The plant was gravity fed and consisted of two Imhoff tanks, two trickling filters, and a clarifier. Sludge was dried in a greenhouse structure and spread over the ground surface (location unknown). The design capacity was 350,000 gallons per day. Reportedly, approximately 1,200 cubic feet of sludge was spread every three years. Wastes handled at the site consisted of domestic sewage and discharge from RVAAP-15 (Load Line 6) and RVAAP-30 (Load Line 7) pink water treatment. This site also received sludge from the Depot Sewage Treatment Plant (RVAAP-15). The site maintained a current Ohio National Pollution Discharge Elimination System (NPDES) permit (#31000000BD), which allowed discharge to Outfall No. 002 (to the adjacent receiving stream). The NPDES permit was maintained until 1993 when the facility ceased operation.

Available information indicates approximately one quart of mercury was released to the floor drain at the plant (date unknown). It is anticipated the mercury may have remained in the receiving piping and/or traps located below the floor drain in the pipe galley. If the mercury escaped the pipe galley, then it may have impacted the receiving (down-gradient) trickling filters and/or the down-gradient drying beds.

CC-RVAAP-76 Depot Area

The Depot Area consisted of a waste oil storage tank located between Depot Buildings U-4 and U-5. The tank was an aboveground storage tank (AST) constructed of steel with a capacity of 400 gallons. The tank sat on crushed slag next to the motor oil storage shed. Waste oil from the motor pool area was stored in the AST until it was removed by an oil reclaimer. The AST was in operation from 1983 through 1993. In 1993, the contents of the AST were removed and the tank remained inactive until its removal (after 1996). The AST has since been removed and an earthen embankment remains at the location of the former tank. In addition, other areas within the Depot Area have been identified for inclusion under this CR site. Buildings 1W-2 and U-10 were reportedly used for the demilitarization and maintenance of various munitions. As such, portions of this CR site may possibly contain MEC, Munitions Constituents (MC), and/or Munitions Debris (MD), although it is not currently recognized as an MRS.

CC-RVAAP-77 Building 1037 - Laundry Waste Water Sump

The Building 1037 Laundry Waste Water Sump consists of a former below ground concrete sump located on the north side of Building 1037. The sump had a capacity of approximately 5,765 gallons. The unit was previously used as a settling tank for the discharge of laundry rinse water. Wash water was emptied approximately 12 times during 8 hours of operation and rinsing 3 times each 8 hours. The wash water entered the tank prior to the rinse water discharge had sufficient settling time so that the increase in rate from the rinse water did not disturb the settled matter on the tank bottom. Rinse water was then sent to RVAAP-22 (George Road Sewage Treatment Plant). The concrete waste water sump was removed in 2009.

CC-RVAAP-78 Quarry Pond Surface Dump

This site consists of three debris piles (A, B, and C) that have a combined total of 23,450 (Pile A = 12,320 square feet, Pile B = 6,285 square feet, and Pile C = 4,845 square feet) square feet with an average thickness of 5 feet. In addition to the three debris piles, there is a former burn area and a rusted 55-gallon drum was located within Debris Pile B and a second rusted 55-gallon drum was located within Debris Pile C. The debris piles contain construction debris, scrap metal and unidentified materials. Debris Pile A is suspected to contain ACM. The area between Debris Piles A and B is suspected of containing construction debris and material excavated from the quarry. The April 2011 HRR Report recommended test pitting to determine if Debris Piles B and C contained ACM, and test pit the area between Debris Piles A and B to determine extent of construction debris and identify if ACM is present within this area.

CC-RVAAP-79 DLA Ore Storage Sites – Remaining Ore Sites

Various ores were stored at RVAAP. The ore was stored on the ground in piles and in above ground storage tanks that did not have floors. Therefore, the stored ore within these ASTs had direct contact with the ground surface. Other materials were also stockpiled directly on the ground surface, including brass ingots, chemical chrome ore, copper ingots, ferrochrome ore, ferrous manganese ore and metallurgical manganese ore. The 2010 IAP estimated that approximately 66,592 cubic yards of soil is impacted at these sites and will require delineation, excavation and off-site disposal.

CC-RVAAP-80 Group 2 Propellant Can Tops

CC-RVAAP-80 consists of the Group 2 Propellant Can Tops area. Propellant can lids or tops were identified on the ground surface/near-surface at the southern end of the former Group 2 Ammunition Storage Area. These materials are typically classified as range-related debris (RRD) (similar to munitions packaging materials); however, this site was never used or classified as an operational range. It is believed that the discarded propellant can tops might qualify as inert scrap metal. The propellant can tops located at the south end of Group 2 were initially identified by OHARNG trainees in the winter of 2008. The propellant can tops were observed in the vegetative area located immediately south of the ammunition storage magazines in the vicinity of the southern railroad spur lines. This area consists of approximately 539,572 square ft (12.4 acres). The Louisville District USACE performed an emergency survey with a metal

detector on a portion of the southern area ground surface. Results of the initial investigation revealed multiple magnetic anomalies in the surface and near-surface soils. On-site personnel visually identified the surface anomalies as propellants can lids or tops. During the emergency survey it was noted that the ground surface had been disturbed and contained hummocks (mounds) ranging in height from 1 ft to 2 ft throughout the survey area.

CC-RVAAP-83 Former Buildings 1031 and 1039

Former Buildings 1031 and 1039 was where the former Hospital and a former Laboratory was located, respectively. The OHARNG designated future land use for both building sites is Future OHARNG Cantonment Area.

Building 1031 - Former Hospital Building

The west end of the former Hospital Building included a gauge laboratory that was used for the development of large scale photos. Site-related constituents (SRCs) of concern are related to the former generation of x-ray acid/silver mix solutions, and common hospital wastes that may have been disposed of through the sanitary waste system, which were constructed of clay pipe. Potential SRCs for the sanitary system at the former Hospital Building are VOCs, SVOCs, and target analyte list (TAL) metals.

Building 1039 - Former Laboratory Building

The former Laboratory Building measured approximately 16,500 square feet. The structure contained three powder test rooms for the routine analyses of lead azide, mercury fulminate, and percussion element mixes. The laboratory was used for the testing of Load Line materials. During operations, the building contained and operated a photography laboratory, a chemistry laboratory, and a medical x-ray facility. The laboratory building was demolished by Lakeshore Engineering Services, Inc. (LES) between May 2006 and July 2007. Following demolition, all unpainted and uncontaminated brick and concrete was crushed and recycled off-site. The basement of Building 1039 was filled with approved clean soil, and was then seeded with approved grass seed. Potential SRCs for the sanitary system at the former Laboratory Building are VOCs, SVOCs, TAL metals, explosives and propellants.

2.0 PROJECT TEAM ORGANIZATION

ECC is the prime contractor for this Task Order. ECC is supported by teaming partners AMEC, Inc. (AMEC), and Prudent Technologies, Inc. (Prudent). AMEC and Prudent personnel will assist the ECC project team in the preparation of Work Plans, Quality Assurance Project Plans, Remedial Investigation Reports, Feasibility Studies, Risk Assessments, and Remedial Designs at the RVAAP sites, and in the conduct of field work. Additionally, several subcontractors will provide other services to complete the project as necessary, including but not limited to drilling, analytical services, surveying, waste management/disposal, and equipment supply services.

Figure 2-1 outlines the project organization for the proposed work at the RVAAP. Table 2-1 provides the names, titles, addresses, and phone numbers of personnel responsible for ensuring the execution of the project as well as key project stakeholders.

ECC's organizational structure is embodied by established capabilities and resources focused on strong project management. ECC's management team is supported by Health and Safety, Quality Assurance/Quality Control (QA/QC), Risk Management, the Contract Administrator, and Project Controls to assist in project execution. The ECC Project Manager (PM) will be the single point of contact (POC) for the Army, USACE COR, and the Ohio EPA for all contractual, technical, and field activities. This organizational structure is designed to provide the following:

- Provide the manpower and resources to meet project schedules.
- Successfully perform the required services.
- Administer the contractual requirements effectively to minimize the Army's management time.

Project execution is directed by the ECC management team located in the Marlborough, Massachusetts office. ECC's management team will also have the ability to draw resources from ECC's offices nationwide. ECC's PM for the project will have the authority to procure any resources required to effectively complete the required work.

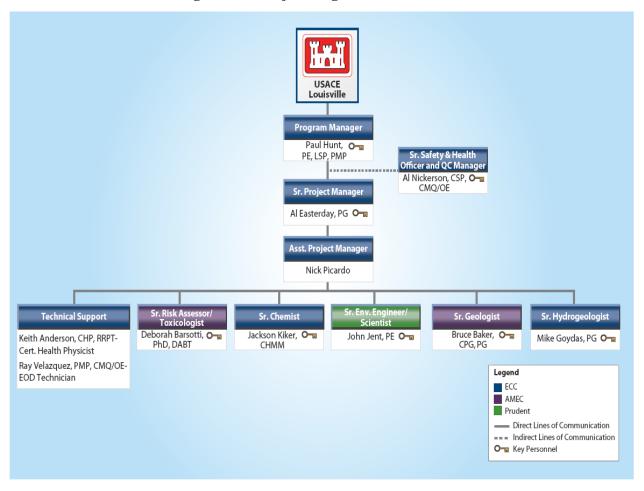


Figure 2-1 Project Organizational Chart

Table 2-1 Key Personnel for Ravenna Army Ammunition Plant

Name	Title	Address	Phone Number & Email
BRAC			
William O'Donnell	BRAC Office Program Manager	BRAC - Assistant Chief of Staff Installation Management 2530 Crystal Drive Arlington, Virginia 22202	T: (702) 601-1570 E: william.odonnell@us.army mil
Ravenna Army A	Ammunition Plant		
Mark Patterson	Facility Manager	Ravenna Army Ammunition Plant Building 1037 8451 State Route 5 Ravenna, Ohio 44266	T: (330) 358-7312 F: (330) 358-7314 E: mark.c.patterson@us.army mil
	ronmental Command		
Mark Eldridge	Project Manager	USAEC 2450 Connell Road Fort Sam Houston, Texas 78234	T: (210) 424-8857 E: mark.h.eldridge@us.army.mil
U.S. Army Corp	s of Engineers		
Lisa Bisig	Contracting Officer	Louisville District Corps of Engineers Attn: CELRL-PM 600 Martin Luther King Jr. Place Louisville, KY 40202	T: (502) 315-6190 E: lisa r.bisig@usace.army.mil
Chris Karem	Contracting Officer's Representative	Louisville District Corps of Engineers Attn: CELRL-PM 600 Martin Luther King Jr. Place Louisville, KY 40202	T: (502) 315-6285 E: christopher.r.karem@usace.army mil
Shelton Poole	Contracting Officer's Representative	Louisville District Corps of Engineers Attn: CELRL-PM 600 Martin Luther King Jr. Place Louisville, KY 40202	T: (502) 315-6290 E: shelton.m.poole@usace.army.mil
Glen Beckham	Project Manager	Louisville District Corps of Engineers Attn: CELRL-PM 600 Martin Luther King Jr. Place Louisville, KY 40202	T: (502) 315-6799 F: (502) 315-6039 E: glen.backham@usace.army mil
Stephanie Craig	Contract Specialist	Louisville District Corps of Engineers Attn: CELRL-PM 600 Martin Luther King Jr. Place Louisville, KY 40202	T: (502) 315-6204 F: (502) 315-6195 E: stephanie.m.craig@usace.army mil
T. Scott Kelly	Technical Manager	Louisville District Corps of Engineers Attn: CELRL-PM 600 Martin Luther King Jr. Place Louisville, KY 40202	T: (502) 315-3815 F: (502) 315-6309 E: timothy.s kelly@usace.army.mil

Name	Title	Address	Phone Number & Email
Eric Cheng	Technical	Louisville District Corps of	T: (502) 315-7443
zare eneng	Manager	Engineers	F: (502) 315-6309
		Attn: CELRL-PM	
		600 Martin Luther King Jr. Place	E: eric.s.cheng@usace.army mil
		Louisville, KY 40202	
Mark Nichter	Technical	Louisville District Corps of	T: (502) 315-6375
TVIAITE I VIOITEOI	Manager	Engineers	F: (502) 315-6309
		Attn: CELRL-PM	E: mark.w.nichter@usace.army mil
		600 Martin Luther King Jr. Place	
		Louisville, KY 40202	
National Guard I	Bureau		
Kim Harriz	Cleanup Program	National Guard Bureau	T: (703) 607-7991
	Manager	NGB-AR-EI	E: kim.harriz@us.army mil
		111 S. George Mason Drive	
		Arlington, VA 22206	
Ohio EPA			
Eileen Mohr	Facility	Ohio EPA	T: (330) 963-1221
	Coordinator	Northeast District Office	F: (330) 487-0769
		2110 E. Aurora Road	E: eileen.mohr@epa.ohio.gov
		Twinsburg, OH 44087	
Kevin Palombo	Site Coordinator	Ohio EPA	T: (330) 963-1292
		Northeast District Office	F: (330) 487-0769
		2110 E. Aurora Road	E: kevin.palombo@epa.ohio.gov
		Twinsburg, OH 44087	
Ohio Army Natio			
Katie Tait	Environmental	Ohio Army National Guard	T: (614) 336-6136
	Specialist	1438 State Route 534 SW	F: (614) 336-6135
		Newton Falls, OH 44444	E: kathryn.s.tait@us.army mil
ECC			
Paul Hunt	Program Manager	ECC	T: (508) 229-2270
		33 Boston Post Road West	F: (508) 229-7737
		Suite 340	E: phunt@ecc.net
		Marlborough, MA 01752	
Al Easterday	Project Manager	ECC	T: (508) 229-2270
•		33 Boston Post Road West	F: (508) 229-7737
		Suite 340	C: (508) 726-0284
		Marlborough, MA 01752	E: aeasterday@ecc.net
Nick Picardo	Assistant Project	ECC	T: (508) 229-2270
	Manager	33 Boston Post Road West	F: (508) 229-7737
		Suite 340	E: npicardo@ecc net
		Marlborough, MA 01752	
Mike McSherry	Senior Health and	ECC	T: (908) 595-1777
	Safety Officer and	1125 Route 22 West	F: (908) 595-1776
	QC Program	Bridgewater, NJ 08807	C: (215) 776-0108
	Manager		E: mmcsherry@ecc net
Al Nickerson	Senior Health and	ECC	T: (508) 771-1636
	Safety Officer and	1600 Falmouth Road	F: (508) 775-1864
	QC Manager	Suite 40	C: (508) 836-6185
		Centerville, MA 02632	E: anickerson@ecc.net

**	TD1 (1		Page 23 of 48	
Name	Title	Address	Phone Number & Email	
Jackson Kiker	Senior Chemist	ECC	T: (508) 229-2270	
		33 Boston Post Road West	F: (508) 229-7737	
		Suite 340	E: jkiker@ecc net	
		Marlborough, MA 01752		
Mike Goydas	Senior	ECC	T: (508) 771-1636	
	Hydrogeologist	1600 Falmouth Road	F: (508) 775-1864	
		Suite 40	E: mgoydas@ecc net	
		Centerville, MA 02632		
Ray Velazquez	EOD Technician	ECC	T: (508) 563-1212	
		318 East Inner Circle	F: (508) 563-1217	
		Buzzards Bay, MA 02542	C: (774)-836-6593	
			E: <u>rvalazquez@ecc.net</u>	
Keith Andersen	Certified Health	ECC	T: (303) 298-7607	
	Physicist	5050 Section Avenue	C: (303) 356-1267	
		Cincinnati, OH 45212	E: kandersen@ecc net	
AMEC				
Bruce Baker	Senior	AMEC	T: (248) 926-4008	
	Geologist/AMEC	46850 Magellan Drive	F: (248) 926-4009	
	Resource	Novi, Michigan 48374	C: (248) 318-8261	
	Manager		E: BWBaker@AMEC.com	
Anita Emery-	Project Manager	AMEC	T: (248) 926-4008	
DeVisser		46850 Magellan Drive	F: (248) 926-4009	
		Novi, Michigan 48374	C: (810) 623-3398	
			E: anita.devisser@AMEC.com	
Deborah A.	Senior Risk	AMEC	T: (609) 689-2829	
Barsotti	Assessor/	200 American Metro Blvd	C: (609) 631-2902	
	Toxicology	Suite 113	E: dbarsotti@amec.com	
		Hamilton, NJ 08619		
Prudent Technol	ogies, Inc.			
John Jent	Senior	Prudent Technologies, Inc.	T: (502) 439-8005	
	Environmental	3303 Trinity Road	C: (502) 439-8005	
	Engineer/Prudent	Louisville, KY 40206	E: jpjent@PrudentWeb.com	
	Resource		2. Jpjent C i radent webleom	
	Manager			
Tomas	Project Manager	Prudent Technologies, Inc.	T: (210) 822-9588	
Hernandez	J J	4242 Medical Drive	C: (210) 385-2011	
		Suite 5250	E: @PrudentWeb.com	
		San Antonio, TX 78229		

T = telephone number F = fax number

 $C = cell \ phone \ number$

E = e-mail address

This Page Intentionally Left Blank

3.0 PROJECT COORDINATION

This PMP is structured to ensure all stakeholders are kept informed of the project status, existing or potential problems, and any changes that may be required to prudently manage the project and satisfy the needs of the Installation stakeholders and decision-makers.

3.1 Project Stakeholders

The project stakeholders identified in the PWS consist of the following:

- U.S. Army
- Ohio Environmental Protection Agency
- U.S. Environmental Protection Agency Region V
- Ohio Army National Guard
- Headquarters National Guard Bureau
- Restoration Advisory Board (RAB)

Specific Army stakeholders include the RVAAP staffs, Installation Management Command (IMCOM) as the Installation's parent organization, Department of Defense Explosive Safety Board (DDESB), U.S. Army Technical Center for Explosives Safety (USATCES), U.S. Army Center for Health Promotion and Preventative Medicine (USCHPPM), U.S. Army Environmental Command (USAEC) and the U.S. Army Corps of Engineers (USACE).

As previously mentioned, the Ohio EPA is the lead regulator at the RVAAP. The USEPA Region V is listed as a stakeholder; however, the agency has not been actively involved at the RVAAP.

3.2 Coordination and Communication

The COR, or his designated representative, will be kept informed of the project status by the ECC PM through monthly status reports, milestone presentations, conference calls, and frequent communication with the COR or designated representatives, as necessary. The ECC PM will be accessible to the COR at all times.

3.2.1 Monthly Status Reports

ECC will provide input to the project team in the form of monthly status reports, weekly contractor conference calls (during field work activities), and/or scheduling meetings as follows:

- ECC will provide a monthly status report for inclusion in the overall monthly report provided to Ohio EPA for approval per the Director's Final Findings and Orders.
- These reports will succinctly describe project status and progress at each site and follow the outline provided in Figure 3-1. A meeting can be scheduled to review the monthly

- status report if necessary. Monthly status reports will be submitted by the 6th of the following month.
- When field work is being conducted at the site, ECC will participate in weekly contractor meetings to discuss and rectify any issues.
- ECC will participate in bi-weekly schedule conference calls.

Figure 3-1 Monthly Progress Report							
MONTHLY PROGRESS REPORT							
Contract No. W912QR	Rep	Report Number:					
Project Number: Deliv	Date	2:					
	Post Road West, Suite 3 gh, MA 01752	40					
Location: Ravenna Arm	ny Ammunition Plant, R	avenna, OH					
Project Name: Investig	gation and Remediation	at 14 Compliance Rest	oration Sites				
SUMMARY OF ACTI	VITIES:						
HEALTH AND SAFETY PERFORMANCE:							
PROBLEMS ENCOU	NTERED/RESOLUTI	ON:					
PLANNED ACTIVITIES:							
Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status				
CHANGES IN KEY P.	ERSONNEL:						
DEVIATION FROM S	SCHEDULE (with expl	anation):					
REMARKS:							
ECC PROJECT MAN	AGER:	SIGNATURE:					

3.2.2 Milestone Presentations

ECC will comply with Section 4.3 of the PWS. If requested, milestone presentations will be made to the COR at the completion of each milestone to provide in depth analysis, discuss lessons learned, and to present approaches for completion of future milestones. At the COR's request, ECC may also make milestone presentations to the other project stakeholders to show achievement of the performance objectives. The Contract Line Item Number (CLIN) structure, included in the Milestone Schedule in Appendix B, presents ECC's proposed execution strategy.

The Milestone Schedule is reflective of ECC's proposal, the requirements of the PWS, and any subsequent negotiations with the Army as to how the Army will structure funding for the project at the CLIN level. Payments will be tied to the successful completion of a milestone or an interim milestone plan approved by ECC and the Army, through the COR. All interim milestones should be associated with easily demonstrated metrics tied to performance measurements. Milestones must have a defined means for demonstrating completion in order to facilitate certification and approval. The milestone schedule presented in Appendix B has been approved by both the Army and ECC. ECC's Milestone Schedule may be subject to change over the course of the project depending on the progress of work and what is required to reach performance goals. In the event of milestone changes, replacement pages for this PMP may be issued to document changes following approval by the Army and ECC.

3.2.3 Phone Conferences/Informal Site Meetings

As necessary with all multi-site, multi-task projects, phone conferences and informal site meetings with the COR or his representative(s) will be documented appropriately through follow-up emails and summaries in the monthly status reports

3.3 Regulatory Coordination

All regulatory coordination will be approved by the Army through the COR. The ECC PM will provide the necessary support to initiate, schedule, and address all regulatory aspects of the project (e.g., organizing discussions with regulators concerning site recommendations, obtaining regulator comments on site documents and appropriately addressing them, and obtaining written documentation, as necessary, of regulator input for all sites in the PWS). All communication to stakeholders and regulators will be coordinated with the USACE and RVAAP. ECC will keep a record of phone conversations and written correspondence affecting decisions relating to the performance of site documents.

The COR, or other COR designee, will attend and represent the Army at all meetings with the regulators if they so chose. ECC will prepare and submit minutes of all significant meetings attended. With approval of the COR, ECC may also informally discuss issues with regulators and provide an after-action report back to the COR. ECC will not contact regulators without prior approval of the COR. The Army will be the signature authority for all agreements, remediation documentation and off-site characterization and disposal documents. For this PWS, Ohio EPA approval is tied to the performance objectives and standards presented in Table 1-1.

In addition, communications that contain information that could affect ECC's ability to achieve the PWS milestones for the 14 Compliance Restoration sites that occurs between the Army and the regulators, without the presence of ECC, shall be transmitted to ECC through the COR. After reviewing the documents, ECC will provide the Army with comments on any items or issues related that may impact ECC's execution of the work. Documentation for all meetings and conference calls will be completed by the ECC PM and circulated within ten business days to the necessary stakeholders as determined by the Army.

3.4 Public Involvement

All public participation coordination will be approved by the Army through the CO. ECC will provide the necessary support to initiate, schedule, and manage public involvement activities of the project. Public comments will be requested and addressed consistent with the CERCLA/SARA and NCP. The COR, or other Army designee, shall attend and represent the Army at all meetings with the public. ECC will also provide support for RAB meetings and present project-related information (e.g., work plans and findings) to the RAB, as requested by the COR and in accordance with the PWS and terms and conditions of the contract.

3.5 Ohio Army National Guard

ECC will coordinate all site access with the Ohio Army National Guard.

4.0 DELIVERABLES

Deliverables for this Delivery Order will be produced in preliminary draft, draft, and final versions and in hard copy and electronic Portable Document Format (PDF). All deliverables will be prepared in accordance with CERCLA and the National Contingency Plan (NCP) following requirements of the Ohio EPA DFFO for RVAAP and the most current version of the RVAAP Deliverable Documents Formatting Guidelines (Vista 2009). Preliminary draft versions of documents will be prepared and submitted to the Army for review. The Army under this task order will provide comments to ECC on any document within 20 business days. It is expected that the Army will provide ECC with one set of consolidated comments through the COR or his designee, and inform ECC when all comments have been transmitted. Once initial comments from the Army are addressed, a draft version of the document will be prepared for review by the regulators and the Army unless the Army requests a review of the revised preliminary draft before it is issued to the regulators. Following the receipt and resolution of stakeholder comments on the draft document, it will be revised and a final version of the document issued for the record. All documents submitted to Ohio EPA will be identified as draft until completion of stakeholder coordination, when they will be signed and finalized (if required). The anticipated comment and review cycle for each project deliverable is as follows:

- Preliminary Draft Deliverables: Army, NGB, and OHARNG review only up to 20 business days.
- Draft Deliverable comment response and concurrence by Army up to 15 business days.
- Draft Deliverable Team review: Ohio EPA, NGB, OHARNG, and Army minimum of 45 calendar days.
- Final Deliverable comment response and concurrence by Ohio EPA, NGB, OHARNG and Army up to 10 business days.
- Final Deliverable Team review/approval: Ohio EPA, NGB, OHARNG, and Army minimum of 45 calendar days.

Table 4-1 Summarizes the major documents expected to be prepared to support work at the fourteen CR Sites identified in the PWS. Project deliverables and written communication among the Army, RVAAP, Ohio EPA, NGB, OHARNG and ECC will be delivered to the addresses shown on Table 4-2, which also indicates the number of hard and electronic copies of deliverables to be distributed.

Table 4-1 Required Deliverables List

624	D.Fhl
Site:	Deliverable:
All Sites	Project Management Plan
All Sites	Quality Assurance Surveillance Plan (draft)
All Sites	Sample and Analysis Plan (Addendum to the RVAAP Facility-Wide Sample and Analysis Plan, 2011)
All Sites	Quality Assurance Project Plan (Addendum to the RVAAP Facility- Wide Quality Assurance Project Plan, 2011)
All Sites	Site Safety and Health Plan (Addendum to the RVAAP Facility-Wide Sample and Analysis Plan, 2001)
CC-RVAAP-71 Barn No. 5 Petroleum Release	Historical Records Review Report
CC-RVAAP-83 Former Buildings 1031 and 1039	Historical Records Review Report
Option:	Site Inspection Work Plan
CC-RVAAP-71 Barn No. 5 Petroleum Release	Site Inspection Report
Option:	Site Inspection Work Plan
CC-RVAAP-83 Former Buildings 1031 and 1039	Site Inspection Report
CC-RVAAP-70 East Classification Yard	Site Inspection Work Plan
	Site Inspection Report
CC-RVAAP-72 Facility-Wide Underground Storage	Site Inspection Work Plan
Tanks (USTs)	Site Inspection Report
CC-RVAAP-75 George Road Sewage Treatment Plan	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-77 Building 1037 - Laundry Waste Water Sump	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-79 DLA Ore Storage Sites – Remaining Ore Sites	Remedial Investigation Work Plan Remedial Investigation Report
CC-RVAAP-76 Depot Area	Remedial Investigation Work Plan Remedial Investigation Report Feasibility Study
CC-RVAAP-68 Electric Substations (East, West, and No. 3)	Remedial Investigation Work Plan Remedial Investigation Report
CC-RVAAP-69 Building 1048 Fire Station	Remedial Investigation Work Plan Remedial Investigation Report

	Page
Site:	Deliverable:
CC-RVAAP-73 Facility-Wide Coal Storage	Remedial Investigation Work Plan
	Remedial Investigation Report
CC-RVAAP-74 Building 1034 - Motor Pool Hydraulic	Remedial Investigation Work Plan
Lift	Remedial Investigation Report
CC-RVAAP-78 Quarry Pond Surface Dump	Remedial Investigation Work Plan
, i	Remedial Investigation Report
CC-RVAAP-79 DLA Ore Storage Sites – Remaining	Remedial Investigation Work Plan
Ore Sites	Remedial Investigation Report
Option:	Remedial Investigation Work Plan
CC-RVAAP-70 East Classification Yard	Remedial Investigation Report
Option:	Remedial Investigation Work Plan
CC-RVAAP-71 Barn No. 5 Petroleum Release	Remedial Investigation Report
Option:	Remedial Investigation Work Plan
CC-RVAAP-72 Facility-Wide Underground Storage	Remedial Investigation Report
Tanks (USTs)	
Option:	Remedial Investigation Work Plan
CC-RVAAP-75 George Road Sewage Treatment Plant	Remedial Investigation Report
Option:	Remedial Investigation Work Plan
CC-RVAAP-77 Building 1037 Laundry Waste Water	Remedial Investigation Report
Sump	Tremedia investigation report
Option:	Remedial Investigation Work Plan
CC-RVAAP-80 Group 2 Propellant Can Tops	Remedial Investigation Report
Option:	Remedial Investigation Work Plan
CC-RVAAP-83 Former Buildings 1031 and 1039	Remedial Investigation Report
CC-RVAAP-73 Facility-Wide Coal Storage	Removal Action Work Plan
The restriction of the restricti	Removal Action Report
CC-RVAAP-79 DLA Ore Storage Sites – Remaining	Removal Action Work Plan
Ore Sites	Removal Action Report
ore sites	Temoval retion report
CC-RVAAP-73 Facility-Wide Coal Storage	Removal Action Work Plan
The restriction of the restricti	Removal Action Report
CC-RVAAP-74 Building 1034 Motor Pool Hydraulic	Removal Action Work Plan
Lift	Removal Action Report
CC-RVAAP-78 Quarry Pond Surface Dump	Removal Action Work Plan
CC RVIII 10 Quarry Fond Burrace Dump	Removal Action Report
CC-RVAAP-79 DLA Ore Storage Sites – Remaining	Removal Action Work Plan
Ore Sites	Removal Action Report
Option:	Removal Action Work Plan
CC-RVAAP-72 Facility-Wide Underground Storage	Removal Action Report
Tanks (USTs)	Removal Action Report
Taliko (UDTo)	

Table 4-2 Document Distribution List

Agency Contact/Address	Preliminary Draft	<u>Draft</u>	<u>Final</u>
U.S. Army Environmental Command	HC: 0	HC: 0	HC: 0
Attn: Mark Eldridge, 2450 Connell Road	EC: 1	EC: 1	EC: 1
Fort Sam Houston, TX 78234-7664			
BRAC - Assistant Chief of Staff Installation	HC: 0	HC: 0	HC: 0
Management	EC: 1	EC: 1	EC: 1
Attn: William O'Donnell, BRAC Office Program			
Manager			
2530 Crystal Drive			
Arlington, VA 22202			
Ravenna Army Ammunition Plant	HC: 2	HC: 2	HC: 2
Attn: Mark Patterson, Facility Manager	EC: 2	EC: 2	EC: 2
Building 1037			
8451 State Route 5			
Ravenna, OH 44266			
Louisville District Corps of Engineers	HC: 3	HC: 3	HC: 3
Attn: Glen Beckham, LRL IRP/MMRP Project Manager	EC: 3	EC: 3	EC: 3
600 Martin Luther King Jr. Place			
Louisville, KY 40202	HC 0	HC 0	HC 0
National Guard Bureau	HC: 0	HC: 0	HC: 0
Attn: Kim Harriz, Cleanup Program Manager	EC: 1	EC: 1	EC: 1
NGB-AR-EI			
111 S. George Mason Drive Arlington, VA 22206			
Ohio Army National Guard	HC: 1	HC: 1	HC: 1
Attn: Katie Tait, Environmental Specialist	EC: 1	EC: 1	EC: 1
1438 State Route 534, SW	EC. I	LC. I	EC. I
Newton Falls, OH 44444			
Ohio EPA – NE District, DERR	HC: 0	HC: 2	HC: 2
Attn: Eileen Mohr, Facility Coordinator	EC: 0	EC: 2	EC: 2
2110 E. Aurora Road	20.0	20.2	20.2
Twinsburg, OH 44087			
Ohio EPA	HC: 0	HC: 0	HC: 0
Office of Federal Facility Oversight, SW District	EC: 1	EC: 1	EC: 1
Attn: Bonnie Buthker, Federal Facilities Coordinator			
401 E. 5th Street			
Dayton, OH 45402			
ECC	HC: 1	HC: 1	HC: 1
Attn: Al Easterday, Project Manager	EC: 1	EC: 1	EC: 1
33 Boston Post Road West, Suite 340			
Marlborough, MA 01752			

HC = Hard Copy EC = Electronic Copy

4.1 Additional Site Plans

Prior to the beginning of any field work, ECC will prepare any additional plans or documents (e.g., sampling and analysis plans, quality assurance project plans, waste minimization plans, health and safety plans) consistent with the regulatory drivers listed in Section 1.0 of the PWS, and any other agreements, orders, or regulations that apply to the Installation and sites. These plans and documents shall be subject to Army and Ohio EPA review and approval.

4.2 Project Schedule

The overall project schedule is shown in Appendix A and incorporates ECC's latest time frame for achieving the performance objectives presented in the PWS for the fourteen CR Sites at the time of award of the Delivery Order. A milestone schedule has been prepared and is presented in Appendix B. This schedule will be provided to Ohio EPA for approval per the Director's Final Findings and Orders as needed. A detailed schedule for each site will also be completed and included in the appropriate work plan for each site.

The project schedule will be updated and submitted with the monthly status report as necessary when significant changes are made. The schedule will include all events that impact the project and will be updated for actual starts and finishes, unforeseen or uncontrollable delays, changes in approaches at sites, etc.

4.3 Geographic Information System

ECC will provide the Ravenna Environmental Information System (REIMS) administrator with electronic copies of all documents in PDF and Geographic Information System (GIS) files used to prepare documents. The GIS information will be presented on maps and submitted to the REIMS administrator in electronic format. Drawings will be submitted in electronic (PDF) format. Maps will be submitted in ArcView compatible format or at a minimum in ESRI shape files, ArcInfo coverages, or AutoCad formats. All electronic files will be submitted to the REIMS administrator on compact discs.

4.4 Project Repository and Administrative Record

At the completion of each major milestone, ECC will provide to the Installation POC, in both paper and electronic (PDF) format, project-related information to ensure pertinent documentation and data are available for project reviews, and to provide a clear record to support decisions and remediation documentation. The Installation POC will include this information in the project repository and the Administrative Record, as appropriate. The Administrative Record is located at:

Ravenna Army Ammunition Plant Building 1037 8451 State Route 5 - Ravenna, OH 44266 ECC shall update at least quarterly, a multimedia (i.e., both paper and electronic format) project repository of all project-related information to ensure that pertinent documentation and data are available for project reviews, and to provide a clear record of the contract approach to support final decisions and remediation completion. This repository is the property of the Army and available to the Army upon request by the CO. A project repository is currently maintained at two locations as follows:

Reed Memorial Library 167 E. Main Street Ravenna, OH 44266 Phone: (330) 296-2827

Newton Falls Public Library 204 South Canal Street Newton Falls, Ohio 44444-1694

Phone: (330) 872-1282

4.5 Army Environmental Database and Environmental Restoration Information System

ECC shall comply with the applicable requirements for data validation and submission for the Army Environmental Databases and Environmental Restoration Information System (ERIS) in accordance with Section 4.8.1 of the PWS. Once a site is identified in the Delivery Order as having achieved remedy-in-place (RIP) (i.e., appropriate documentation is finalized), ECC will be responsible for providing the CO, or their designated representative, with the data and documentation necessary for the closeout of each site in the Army Environmental Database – Restoration Module (AEDB-R). In addition, ECC will upload semi-annually, all generated analytical data into the ERIS. The Army, through the CO, will provide data specifications for the AEDB-R and ERIS to ECC. The Army will be responsible for uploading all previous data related to the sites covered under the PWS for ECC's use and it is expected the Army will provide all previous data in ERIS format. The Army shall also provide ECC with the required access and sponsorship to complete these tasks in the ERIS and AEDB-R.

5.0 QUALITY MANAGEMENT

This chapter discusses quality management and presents the QA/QC strategy to be used by the Army to assess progress toward project milestones. ECC will ensure that the quality of all work performed or produced under this Delivery Order meets Army approval through the COR. A Quality Assurance Project Plan (QAPP) and a Quality Assurance Surveillance Plan will be prepared by ECC and approved by the COR prior to the performance of any physical work. ECC will prepare the QAPP as an addendum to the Quality Control Plan for the 2010 Phase I Remedial Investigations Services at Compliance Restoration Sites (9 Areas of Concern) (SAIC, 2010) to ensure QA/QC requirements will be met under this Task Order.

In addition, the QAPP will be provided to the Ohio EPA for approval per the Director's Final Findings and Orders. To the extent possible, ECC will utilize existing QA/QC plans prepared for RVAAP and generate addendums to these plans for any new activities. This will ensure procedural consistencies, a higher level of quality and reduce review time. The QA/QC plans will identify the personnel, procedures, controls, instructions, tests, verifications, documents, and forms to be used, and the records to be maintained. Key processes and procedures addressed in the QA/QC plans may include:

- Organizational Description—Duties, responsibilities, and authorities of key project team members.
- Definable Features of Work—Listing and brief descriptions of all definable features identified within the applicable specifications and/or work plan documents.
- Daily Reporting—Complete daily QC reports augmented with supportive data and documentation that is transmitted to the client on a daily basis.
- Submittal Management Procedures—Procedures and methods that certify all submittals are in compliance with the task order requirements.
- Testing Procedures—Procedures and methods that ensure test control measures are adequately performed, documented, and conform to task order requirements.
- Completion Inspection—Procedures for conducting a pre-final inspection, developing a punch list, and resolving deficiencies in preparation for the final inspection.
- Deficiency Reporting—Reporting and tracking using a systematic process that acquires effective corrective action and QC verification.
- Documents and Records—Procedures that ensure a current, accurate, and complete project records system and factual evidence that all required QC activities and/or tests have been performed.

ECC will provide notification to the COR and Ohio EPA a minimum of 15 working days prior to the commencement of significant project activities. These activities will include, but are not limited to, meetings for work at sites, sampling activities, drilling, geophysical investigations, and monitoring events. This will provide the COR with the opportunity to verify compliance with task order requirements and adherence to the stipulations of the project QAPP. ECC will also notify RVAAP to ensure there is no conflict with any ongoing Installation activities and that appropriate facility access requirements have been met.

5.1 Quality Control Testing

Chemical QC will be provided whenever sampling or analysis for chemical constituents is required in order to achieve milestones. QC for traditional soils or geotechnical testing also will be included. The laboratory(ies) to be used by ECC will be National Environmental Laboratory Accreditation Conference (NELAC)-certified, will perform testing in accordance with requirements of the DOD Quality Systems Manual (QSM), Version 3 (or the latest approved version), and will be compliant with the Louisville Chemistry Guideline (LCG). If necessary, and with approval from the Army, USACE, and the Ohio EPA, ECC may establish an onsite testing laboratory at the project site. All onsite testing will meet the requirements of USEPA, specific state regulator requirements and the most stringent requirements of the most recently approved DOD QSM and the current LCG.

All samples collected and analyzed under this Delivery Order will be generated in Electronic Data Deliverable (EDD) format compatible with uploading requirements for ERIS and other required databases as discussed in Section 4.5. ECC will complete data verification, including successfully processing all required electronic data. The EDD will accurately reflect all analytical quality requirements. All electronic data submitted by the contract laboratory is required to be error-free and in complete agreement with the hard copy data. Laboratories will provide the appropriate Chemical Abstracts Services (CAS) number to a specific analyte. A Load Summary Report and a transmittal letter from the laboratory will accompany the hard copy data report, certifying that the EDD is in agreement with hard copy data reports and was found to be free of errors. ECC will perform data validation on all data received. A copy of the data package also will be provided to RVAAP for the project repositories.

5.2 Data Quality Management

ECC has developed an integrated process for acquiring and managing environmental data for this project. ECC uses a Microsoft SQL Server 2005 as its data repository with quality checks at critical steps. ECC's database will accommodate all field and analytical laboratory data associated with environmental site investigation and remediation for this project. Microsoft Visual Studio 2005 will be the primary tool used for producing project deliverables (such as report tables) or to support data analysis, evaluation, and visualization using tools such as a GIS. ECC will incorporate ArcSDE as the interface for the GIS solution and immediate data retrieval mechanism. GIS data set shall be accompanied by metadata conforming to the Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM) and be provided in a geodatabase that is compliant with the Spatial Data Facilities, Infrastructure, and Environment (SDSFIE) standards and the requirements of the PWS. ECC will test the horizontal accuracy of the GIS data in accordance with the National Standard for Spatial Data Accuracy (NSSDA). All GIS data shall be provided in the Universal Transverse Mercator (UTM) coordinate system and shall have a datum of WGS84. Datum WGS84 is the World Geodetic System (WGS) of 1984 and it is the reference frame used by the U.S. Department of Defense (DoD) and is defined by the National Geospatial-Intelligence Agency (NGA). WGS84 is used by DoD for all its mapping, charting, surveying, and navigation needs, including its GPS "broadcast" and "precise" orbits. The primary objective of ECC's data acquisition and management process is to generate data that meets the project's data quality

objectives and EDD requirements in a timely and efficient manner. ECC's database management enhances the ability to accomplish this goal through:

- Ease of use and familiarity when working with ECC subcontractor laboratories
- Direct upload of EDD from the laboratory into the database
- Integrated data completeness and quality checks
- Direct support for validation of analytical data per the Facility-Wide Sampling and Analysis Plan (SAIC, 2011), QSM and LCG requirements
- Data management POC for project deliverables, data requests, and reporting

6.0 SITE LOGISTICS

The ECC PM will communicate with the COR and/or designee to review and coordinate field schedules and activities for execution of the PWS.

6.1 Health and Safety

ECC will produce and implement a written Accident Prevention Plan/Site Safety and Health Plan (APP/SSHP) which will be an addendum to the approved Facility-Wide Safety and Health Plan (FWSHP) (USACE 2011) that will meet the requirements of the federal, state, and local laws and regulations prior to conducting any fieldwork. ECC will ensure that its subcontractors, suppliers, and support personnel follow all established safety and health provisions.

At a minimum, the SSHP will contain the following elements: site description and contaminant characterization, safety and health hazard(s) assessment and risk analysis, safety and health staff organization and responsibilities, site-specific training and medical surveillance parameters, personal protective equipment and decontamination facilities and procedures to be used, monitoring and sampling required, safety and health work precautions and procedures, site control measures, on-site first aid and emergency equipment, emergency response plans and contingency procedures (on-site and off-site), logs, reports, and recordkeeping. Personnel involved in certain munitions response activities will, as required, meet the qualifications of DOD Explosives Safety Board, Technical Pamphlet (TP) 18, and Minimum Qualifications for UXO Technicians and UXO-Qualified Personnel. All personnel performing munitions response activities that present an explosive risk will be limited to a 50-hour workweek, with no individual workday exceeding 10 hours total, unless specifically authorized by the COR. Accident reporting and recordkeeping will be performed in accordance with USACE EM 385-1-1, part 01.D for all USACE elements and missions under the command of the Chief of Engineers.

ECC's proposed work will adhere to the RVAAP Facility-Wide Safety and Health Plan (USACE 2011), ECC's approved SSHP (and associated site-specific addendums) will tier under the RVAAP FWSHP and neither document can be implemented without the other. ECC's health and safety goal is to provide an injury free work environment where facilities and projects are free of recognized hazards; and people, equipment, and the environment are not placed at unreasonable risk of injury or damage.

6.2 Protection of Property

All fourteen Compliance Restoration sites are believed to be limited to the property boundaries of the RVAAP. As such, the USACE does not anticipate that formal Rights of Entries (ROEs) will be required to access the boundaries of the sites. Access to the fourteen CR site properties will be provided by the on-site BRAC-D Facility Manager, and members of the on-site Ohio Army National Guard. Should formal ROEs be required to assess off-property locations, then the U.S. Government will obtain the necessary ROEs for ECC.

ECC will coordinate with Army (RVAAP, USACE and Camp Ravenna) to minimize potential damage to existing resources and property. Mobilization at intrusive investigation sites will be sequenced to ensure that impacts are minimized. ECC will be responsible for any damage that may be caused to property of the United States (Federal property) or any other property owned by others during ECC activities under this contract and will exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States or owned by others damaged or destroyed by the ECC incident to the exercise of the privileges herein granted will be promptly repaired or replaced by ECC to a condition satisfactory to the COR or reimbursement is made by ECC sufficient to restore or replace the property to a condition satisfactory to the COR in accordance with Federal Acquisition Regulation (FAR) Clause 52.245-2.

7.0 RECORDS MANAGEMENT

ECC will maintain records of all data collected and related files. All files, including data, lists, remediation results, photographs, and maps, will be organized and will be filed. Electronic files of data, maps, QA/QC data, waste profiles and other pertinent information will be properly archived. Reports and submittals will be provided to the stakeholders as required. All reports will be assigned unique document control numbers. Any records pertaining to or possibly pertaining to any matter in litigation or a matter that may possibly be litigated shall be retained for at least 5 years after the litigation is completed and may be retained longer if otherwise required by contract, applicable law or this policy and may be discarded ONLY with written approval of a company attorney. All project documents will be prepared in accordance with the most recent version of the RVAAP Deliverable Document Format Guidelines.

ECC encourages the use of electronic storing of any and all records when feasible from a practical and financial standpoint. Any documents that are stored electronically on disks may be maintained there permanently if necessary. Any such disks will be labeled clearly and adequately so that record retrieval is efficient. Media chosen for electronic storage will be capable of maintaining records in a readable form for the required retention period and will be able to be accessed even with changes in hardware and software during the retention period. The minimum retention period for specific deliverable types that may be encountered on the project are as follows:

- Accident Reports and Claims 7 years
- Corporate Records (Minutes, By-Laws, Articles, Shareholder/Stock Records, Acquisition and Sale Records) Permanent
- Contracts and Leases 10 years from expiration/termination
- Project Documents (Plans, contracts, notes, etc.) 10 years from end of project
- Financial Documents (purchase orders, invoices, etc.) 10 years from end of project
- Contracts and Contract Documents 10 years from end of project
- Invoices and Billing Documents 10 years from end of project
- Technical Drawings and Information Minimum 8 years but according to contract or applicable law for longer retention
- Accounts Payable Ledgers 7 years
- Accounts Receivable Ledgers 7 years
- Government Audit Reports Permanent
- Bank Reconciliations 2 years
- Bank Statements 7 years
- Budget Information 3 years
- Canceled Checks 7 years
- Canceled Checks Permanent
- Cash Books Permanent
- Depreciation Schedules Permanent
- Deposit Slips 10 years
- Expense Reports 10 years
- Financial Statements Permanent

- Financing Agreements Permanent
- General Ledgers Permanent
- Internal Audit Work Papers 7 years from date of report
- Inventory Records 7 years
- Invoices to and from Customers 7 years
- Payroll Records 7 years
- Purchase Orders, General 7 years
- Sales Records 7 years
- Tax Returns Permanent
- Stock Option Records 10 years
- Litigation Records 5 years after conclusion
- Legal Records, Other 10 years
- Legal Records related to Assets Permanent
- Legal Records related to Acquisitions & Mergers Permanent
- Insurance Records Permanent
- Intellectual property Permanent
- Real Estate/Deeds Permanent
- Sales Records 10 years
- Training Records Permanent
- Workers Compensation Records 10 years

8.0 GOVERNMENT RESOURCES

Government-furnished resources, contractor-furnished and/or acquired property and contractor-furnished resources are discussed in this section.

8.1 Army-Furnished Resources

Under this Delivery Order, the Army shall provide specified resources to ECC for investigation and remediation purposes. Army-furnished resources to be provided to ECC under this task order will include the following:

- Access to Army-maintained records, reports, data, analyses, and information, in their current format (e.g., paper copy, electronic, tape, disks, compact disks), as related to access to DOD and Army policy and guidance documents
- ROEs for all sites in the Delivery Order
- Costs for evacuations, compensation, and temporary housing for displaced residents during intrusive activities and MEC destruction

8.2 Contractor-Furnished Resources

ECC, as the Contractor, must possess all the required expertise, knowledge, equipment and tools required to meet or exceed the government's objectives identified in the Delivery Order in accordance with established industry standards. Contractor furnished resources to be provided by ECC includes the following:

- Coordination with the Army and the Installation in order to get access to the Installation and any off-site properties, as required for execution of the PWS and by doing so, will follow the procedures described during the Contractors' meeting at the Installation.
- Coordination with the Army and the Installation in order to gain access to available infrastructure (e.g., buildings, roadways, waste management units, other Installation facilities) and utilities (e.g., electric power and telephone lines, natural gas and water supply distribution pipelines, and wastewater discharge conveyances), as required for execution of the PWS.
- All waste generated under this contract shall be the responsibility of the Contractor with respect to waste containerization and labels, waste characterization, temporary waste staging and storage, waste transportation, and the proper off-site disposal (within 90 days of generation).
- Any other necessary resources needed to achieve the defined performance objectives in the PWS.

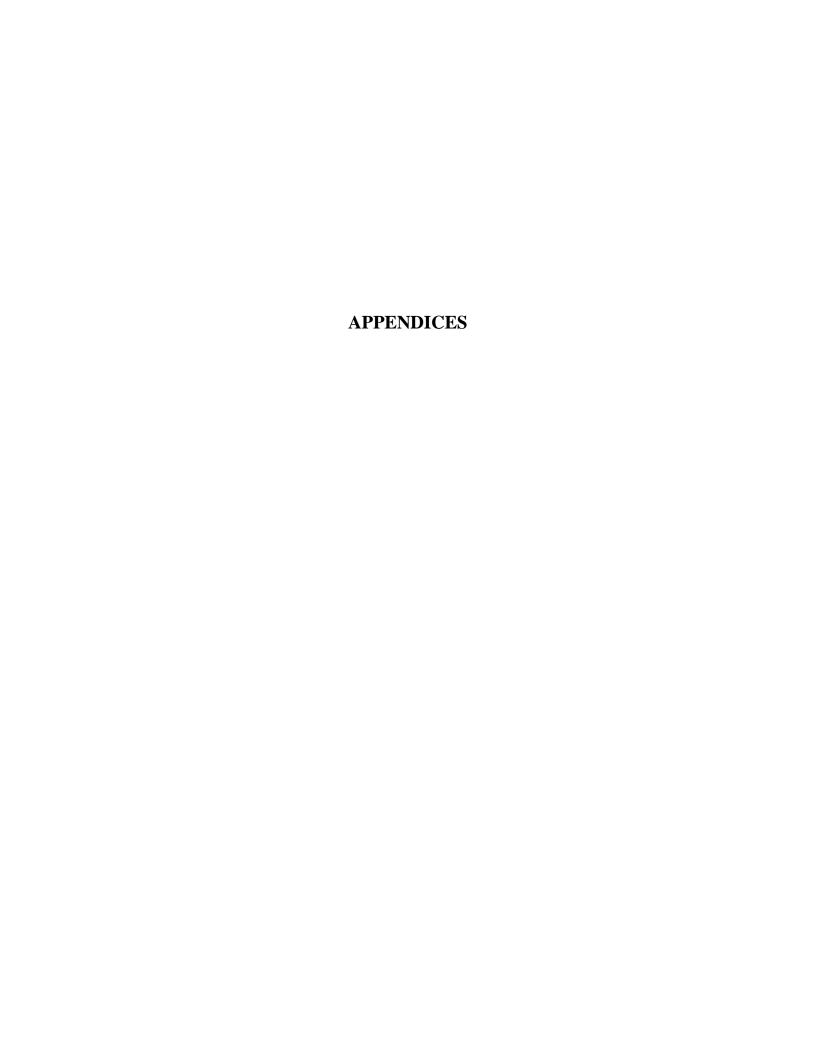
9.0 REFERENCES

Ohio Environmental Protection Agency (Ohio EPA) 2004. *Director's Final Findings and Orders (DFFO)* for RVAAP, dated June 10.

SAIC 2011. Facility-Wide Sample and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio, February 24.

USACE 2011. Facility-Wide Safety and Health Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio, February 24.

Vista Sciences Corporation (Vista) 2009. Ravenna Army Ammunition Plant Deliverable Document Format Guidelines, Version 18, dated December 21.

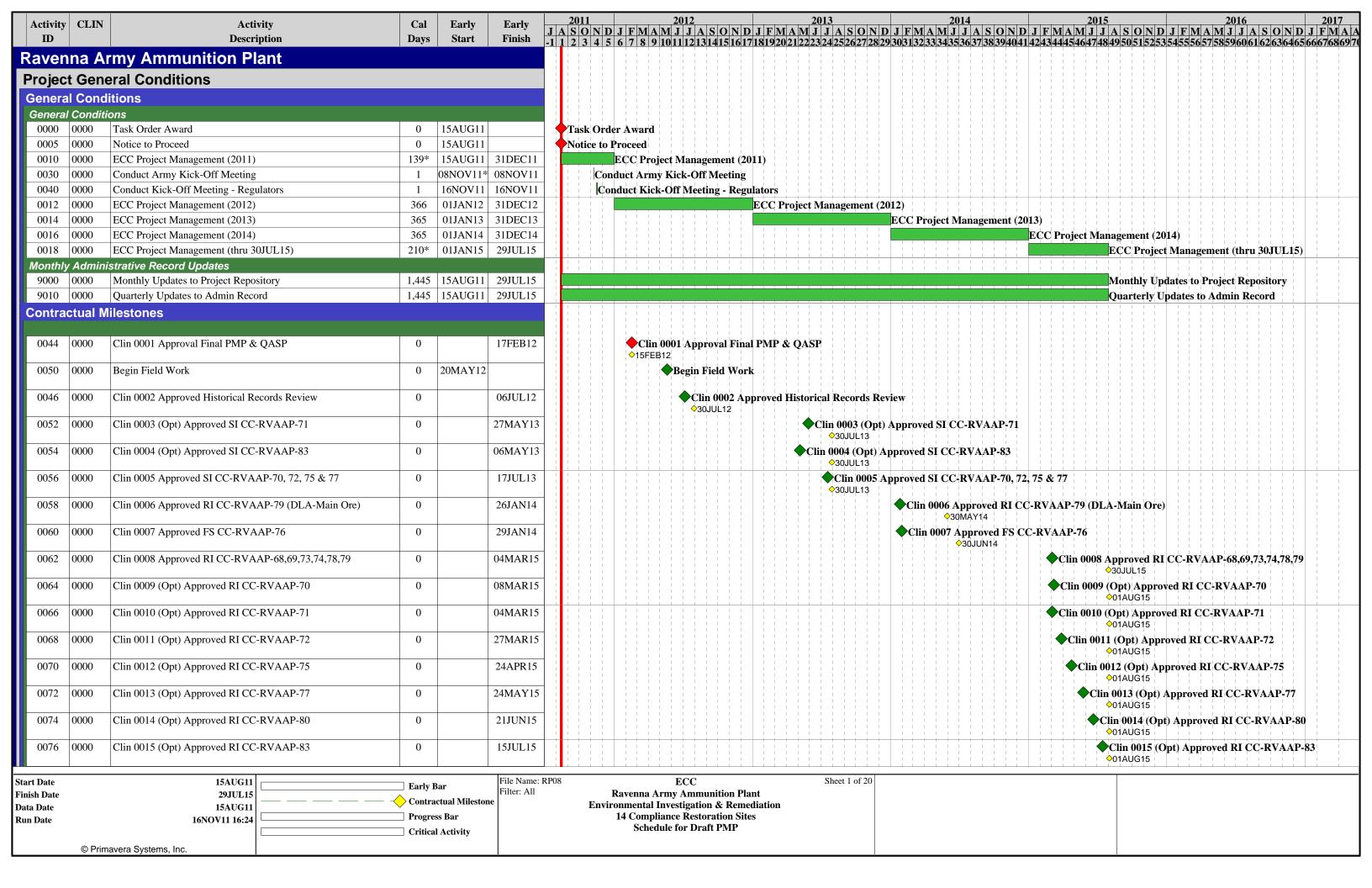




APPENDIX A

PROJECT SCHEDULE (Subject to Change)





	Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	2011 2012 2013 2014 2015 2015 2016 2017 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A A A -1] 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
	0078	0000	Clin 0016 Approved NTC RA LL CC-RVAAP-73 & 79	0		30AUG13	-1 1 2 3 4 5 6 7 8 9 101112131415161171819202122232423262728293051323334333637383940414243444346474849505152535453505758596001620364650667686970 Clin 0016 Approved NTC RA LL CC-RVAAP-73 & 79
	0080	0000	Clin 0017 Approved NTC RA CC-RVAAP-79 (DLA-Main)	0		28MAY14	Clin 0017 Approved NTC RA CC-RVAAP-79 (DLA-Main)
	0082	0000	Clin 0018 Approved NTC RA CC-RVAAP-73,74,78, &79	0		11MAR15	Clin 0018 Approved NTC RA CC-RVAAP-73,74,78, &79
	0084	0000	Clin 0019 (Opt) Approved NTC RA CC-RVAAP-72	0		15MAY15	♦ Clin 0019 (Opt) Approved NTC RA CC-RVAAP-72 ◆30JUL15
	0086	0000	Clin 0020 (Opt) Approved NTC RA CC-RVAAP-75	0		15MAY15	Clin 0020 (Opt) Approved NTC RA CC-RVAAP-75
		0000	Projected Completion	0		29JUL15	Projected Completion ♦22AUG15
	Subtotal			1,445	15AUG11	29JUL15	
			chieve Approved PMP & QASP				
Ш	Submit						
Ш			ment Plan (PMP)	20	15 ATIO11	21CED11	
		0001	Prep & Submit Pre-Draft PMP & QASP To Army		15AUG11		Prep & Submit Pre-Draft PMP & QASP To Army
			Submit Pre-Draft PMP & QASP To Army	0	220ED11	21SEP11	Submit Pre-Draft PMP & QASP To Army
		0001	Army Review Pre-Draft PMP & QASP	37	22SEP11	28OCT11	Army Review Pre-Draft PMP & QASP
		0001	Attend Pre-Draft PMP&QASP Comment Resolution Mtg	1 17		310CT11	Attend Pre-Draft PMP&QASP Comment Resolution Mtg
		0001	Prep/Submit Draft PMP to Army & Ohio EPA	17	01NOV11		Prep/Submit Draft PMP to Army & Ohio EPA
		0001	Army/Ohio EPA Review Draft PMP Attend Draft PMP Comment Resolution Mtg	45	18NOV11 02JAN12	01JAN12 02JAN12	Army/Ohio EPA Review Draft PMP Attend Draft PMP Comment Resolution Mtg
Ш		0001	-	1			ku <mark>l</mark> an na kanana na nana kanana ² an na na kanana na na na na harana na na harana na na na na na harana l a ma
		0001	Prep & Submit Final PMP To Army & Ohio EPA Army/Ohio EPA Revw & Approve Final PMP	45	03JAN12 04JAN12	03JAN12 17FEB12	Prep & Submit Final PMP To Army & Ohio EPA
		0001	Approval Of Final PMP Within 6 Months Of NTP	0	U+J/MIN12	17FEB12	Army/Ohio EPA Revw & Approve Final PMP Approval Of Final PMP Within 6 Months Of NTP 15FEB12
ш	Site SSF	HP/SAP	& QAPP Addendum				
ш		0001	Develop Site Specific Pre-Draft S&H, SAP & QAPP	95	15AUG11	17NOV11	Develop Site Specific Pre-Draft S&H, SAP & QAPP
ш	0205	0001	Submit Site Specific Pre-Draft S&H, SAP & QAPP	0		17NOV11	Submit Site Specific Pre-Draft S&H, SAP & QAPP
	0210	0001	Army Review of Pre-Draft SSHP,SAP,QAPP	30	18NOV11		Army Review of Pre-Draft SSHP,SAP,QAPP
	0215	0001	Comment Res Mtg Pre-Draft SSHP,SAP,QAPP	2	19DEC11	20DEC11	Comment Res Mtg Pre-Draft SSHP,SAP,QAPP
	0220	0001	Revise & Submit Draft SSHP,SAP,QAPP With PMP	20	21DEC11	20JAN12	Revise & Submit Draft SSHP,SAP,QAPP With PMP
	0225	0001	Army/Ohio EPA Review Draft SSHP,SAP,QAPP	45	21JAN12	05MAR12	Army/Ohio EPA Review Draft SSHP,SAP,QAPP
	0230	0001	Comment Resolution Meeting Draft SSHP,SAP,QAPP	2	06MAR12	07MAR12	Comment Resolution Meeting Draft SSHP,SAP,QAPP
	0235	0001	Prep & Submit Final SSHP/SAP & QAPP To Army	20	08MAR12	04APR12	Prep & Submit Final SSHP/SAP & QAPP To Army
	0240	0001	Army/Ohio EPA Review Final SSHP/SAP & QAPP	45	05APR12	19MAY12	Army/Ohio EPA Review Final SSHP/SAP & QAPP
	Subtotal	0001		192	15AUG11	19MAY12	
	CLIN 0	002 H	storical Records Review 71, 83				
	Field A	ctivitie	Work Plan CLIN 2				
		al Recor	ds Research Revw Of Available Information CLIN 2	20	01NOV11*	20NOV11	Revw Of Available Information CLIN 2
		0002	Property Historical Data/Archives File Search			30NOV11	l I <mark>I</mark> er Ta lleren er en en elementen en en elementen en en elementen en en elementen en elementen en elementen el
		0002	Historic Aerial Photographs CLIN 2	10		30NOV11 30NOV11	Property Historical Data/Archives File Search Historic Aerial Photographs CLIN 2
		0002	Interviews CLIN 2	10		30NOV11	Interviews CLIN 2
		0002	Property Visit CLIN 2	7		30NOV11	Property Visit CLIN 2
		0002	Perimeter Survey CLIN 2	7		30NOV11	Perimeter Survey CLIN 2
	HRR Re			,	2.1.0 111	30110 111	
		0002	Prep & Submit Pre-Draft HRR To Army CLIN 2	40	01DEC11	09JAN12	Prep & Submit Pre-Draft HRR To Army CLIN 2
		0002	Submit Pre-Draft HRR To Army CLIN 2	0	3.22011	09JAN12	Submit Pre-Draft HRR To Army CLIN 2
		0002	Army Review Pre-Draft HRR Rpt CLIN 2	30	20JAN12	18FEB12	Army Review Pre-Draft HRR Rpt CLIN 2
		0002	Attend Comment Resolution Meeting HRR CLIN 2	2	21FEB12	22FEB12	Attend Comment Resolution Meeting HRR CLIN 2
		0002	Prep & Submit Draft HRR To Army&Ohio EPA CLIN 2	20	23FEB12	13MAR12	Prep & Submit Draft HRR To Army&Ohio EPA CLIN 2
		0002	Army/Ohio EPA Review Draft HRR CLIN 2	45		27APR12	Army/Ohio EPA Review Draft HRR CLIN 2
	- ~		· · · · · · · · · · · · · · · · · · ·	1 -			· · · · · · · · · · · · · · · · · · ·

					Б.	ъ.,	201	2011 2012 2013 2014 2015 2016 2017
Activi	ty C	LIN	Activity	Cal	Early	Early	JASC	S O N D J F M A M J J A S O N D J A S O
ID			Description	Days	Start		-1 1 2 3	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 69 69 69 69 69 69 69 69 69 69 69 69
1170			Attend Comment Resolution Mtg Draft HRR CLIN 2	3	30APR12			Attend Comment Resolution Mtg Draft HRR CLIN 2
1200			Prep/Submit Final HRR To Army&Ohio EPA CLIN 2		03MAY12			Prep/Submit Final HRR To Army&Ohio EPA CLIN 2
1210	000	02	Army/Ohio EPA Revw & Approve Final HRR CLIN 2	45	23MAY12	06JUL12		Army/Ohio EPA Revw & Approve Final HRR CLIN 2
Appro	oved	Hist	orical Record Review					
Histo	rical F	Record	d Review					
71-820	000	02	Approved Historical Record Revw CC-RVAAP-71&83	0		06JUL12		Approved Historical Record Revw CC-RVAAP-71&83
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Subtota	al 000	02		171	01NOV11	06JUL12	111	
CLIN	000	3 (0	pt) Site Inspection CC-RVAAP-71					
			(Barn No. 5 Petroleum Release)					
			n Work Plan					
	000	_	Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-71	30	19FEB12	19MAR12		Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-71
1320	_		Submit Pre-Draft SIWP To Army CC-RVAAP-71	0		19MAR12		Submit Pre-Draft SIWP To Army CC-RVAAP-71
1330			Army Review Pre-Draft SIWP CC-RVAAP-71	30	30MAR12			Army Review Pre-Draft SIWP CC-RVAAP-71
1340			Attend Comment Resolution Meeting SIWP RVAAP-71	1	30APR12			Attend Comment Resolution Meeting SIWP RVAAP-71
1350			Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-71	10	01MAY12			Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-71
1380			Army/Ohio EPA Review Draft SIWP CC-RVAAP-71	45	15MAY12		1 1 1	Army/Ohio EPA Review Draft SIWP CC-RVAAP-71
1390			Attend Comment Resolution Mtg Drft SIWP RVAAP-71	3	29JUN12	03JUL12		Attend Comment Resolution Mtg Drft SIWP RVAAP-71
1400		-	Prep & Submit Final SIWP To Army/EPA CC-RVAAP-71	15	05JUL12	25JUL12		Prep & Submit Final SIWP To Army/EPA CC-RVAAP-71
1430			Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-71	45	26JUL12			Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-71
		estiga		13	2000112	0051112		The state of the s
1500			Request For Site Access	14	26JUL12	08AUG12		Request For Site Access
1510			Mobilize To Site CC-RVAAP-71	1	10SEP12	10SEP12		Mobilize To Site CC-RVAAP-71
1520			Conduct Field Investigation CC-RVAAP-71	2	11SEP12	12SEP12		Conduct Field Investigation CC-RVAAP-71
1520			Demobilize Site CC-RVAAP-71	1	13SEP12	12SEP12 13SEP12		Demobilize Site CC-RVAAP-71
1540			Conduct Lab Analysis CC-RVAAP-71	10	13SEP12 14SEP12	27SEP12		Conduct Lab Analysis CC-RVAAP-71
1540			Data Review Meeting CC-RVAAP-71	2	28SEP12			Data Review Meeting CC-RVAAP-71
			bletion Report		203EF12	0100112		pata review recting CC-rv AAF-/1
1580			Prep/Submit Field Work Compl Report CC-RVAAP-71	15	02OCT12	23OCT12		Prep/Submit Field Work Compl Report CC-RVAAP-71
	000		Submit Field Work Compl Report CC-RVAAP-71	0	0200112	23OCT12 23OCT12		Submit Field Work Compl Report CC-RVAAP-71
			• •	U		250C112		Submit reid vvoi a Compi Report CC-R V AAF-/1
1600		_	1 Report Develop SI Report - Pre- Draft CC-RVAAP-71	40	24OCT12	02DEC12		Dovolop SI Poport - Dro. Droet CC DVAAD 71
			* *	0	240C112	02DEC12 02DEC12		Develop SI Report - Pre- Draft CC-RVAAP-71
1605			Submit Pre-Draft SIR To Army CC-RVAAP-71	+	02DEC12			Submit Pre-Draft SIR To Army CC-RVAAP-71
1610			Army Revw SI Report - Pre-Draft CC-RVAAP-71	30		01JAN13		Army Revw SI Report - Pre-Draft CC-RVAAP-71
1620	_		Comment Res Mtg SIR Pre-Draft CC-RVAAP-71	1.5		03JAN13		Comment Res Mtg SIR Pre-Draft CC-RVAAP-71
1640			Revise & Submit SI Report - Draft CC-RVAAP-71	15		25JAN13		Revise & Submit SI Report - Draft CC-RVAAP-71
1650			Army/Ohio EPA Review SIR Draft CC-RVAAP-71	45	26JAN13			Army/Ohio EPA Review SIR Draft CC-RVAAP-71
1660			Comment Res Mtg SIR Draft CC-RVAAP-71	20	12MAR13			Comment Res Mtg SIR Draft CC-RVAAP-71
1680	_		Prep&Submit Final SIR To Army/Ohio EPA RVAAP-71	30	14MAR13			Prep&Submit Final SIR To Army/Ohio EPA RVAAP-71
1690			Army/Ohio EPA Revw & Apprv Final SIR RVAAP-71	45	13APR13			Army/Ohio EPA Revw & Apprv Final SIR RVAAP-71
1700			Submit SI Report - Final CC-RVAAP-71	U		27MAY13		◆Submit SI Report - Final CC-RVAAP-71
Site II	$\overline{}$			0		271/143/12		
1750	000	JS	Approved Site Inspection CC-RVAAP-71	0		27MAY13		◆Approved Site Inspection CC-RVAAP-71 →30JUL13
Subtota	1 000)3		319	19FEB12	27MAY13		
1	'		nt) Site Inspection CC-DVAAD 92	317	.,. 2512	2,1.11113		
			pt) Site Inspection CC-RVAAP-83					
			(Former Bldgs 1031 & 1039)					
		_	n Work Plan					
1810			Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-83	30	19FEB12			Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-83
1820	_		Submit Pre-Draft SIWP To Army CC-RVAAP-83	0		19MAR12		Submit Pre-Draft SIWP To Army CC-RVAAP-83
1830	_		Army Review Pre-Draft SIWP CC-RVAAP-83	30	30MAR12			Army Review Pre-Draft SIWP CC-RVAAP-83
1840	000	04	Attend Comment Resolution Meeting SIWP RVAAP-83	1	30APR12	30APR12		Attend Comment Resolution Meeting SIWP RVAAP-83

					2011		2012	2013	2014	20	5	2016	2017
Activity CLIN	•	Cal	Early	Early	ASON	DJFMAN	MIJASONDI	FMAMJJASO	DNDJFMAMJJA	SONDJEMAMJ	IASONDJ	FMAMJJA	SOND JEMAA
ID	Description	Days	Start	Finish -1	1 2 3 4	5 6 7 8 9 1	101112131415161718	319202122232425262	7 28 29 30 31 32 33 34 35 36 37.	383940414243444546474	84950515253545	55565758596061	62 63 64 65 66 67 68 69 70
1850 0004	Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-83	20	01MAY12					SIWP To Army/Ohio l					
1860 0004	Army/Ohio EPA Review Draft SIWP CC-RVAAP-83	45	21MAY12	04JUL12			Army/Ohio EPA	Review Draft SIWP C	CC-RVAAP-83				
1870 0004	Attend Comment Resolution Mtg Drft SIWP RVAAP-83	3	05JUL12	09JUL12			Attend Commen	t Resolution Mtg Drft	SIWP RVAAP-83				
1880 0004	Prep & Submit Final SIWP To Army/EPA CC-RVAAP-83	20	10JUL12	29JUL12			Prep & Submi	t Final SIWP To Army	//EPA CC-RVAAP-83				
1890 0004	Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-83	45	30JUL12	12SEP12			Army /Ohi	o EPA Revw & Approv	ve Fnl SIWP RVAAP-83				
SI Field Investi	igation												
1895 0004	Request For Site Access	14	30JUL12	12AUG12			Request For S	Site Access					
1900 0004	Mobilize To Site CC-RVAAP-83	1	14SEP12	14SEP12			· · · - · • · · ·	o Site CC-RVAAP-83					
1910 0004	Conduct Field Investigation CC-RVAAP-83	2	17SEP12	18SEP12				ield Investigation CC-	RVAAP-83				
1920 0004	Demobilize Site CC-RVAAP-83	1	19SEP12	19SEP12				e Site CC-RVAAP-83					
1930 0004	Conduct Lab Analysis CC-RVAAP-83	10	20SEP12	03OCT12				Lab Analysis CC-RVA	AP-83				
1940 0004	Data Review Meeting CC-RVAAP-83	2	04OCT12					iew Meeting CC-RVA					
			0400112	030C112			Data Kev	lew Meeting CC-KVAA	AI -03				
1950 0004	mpletion Report	20	060CT12	25OCT12			D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1 D 4 CC DX/A AD 02				
	Prep/Submit Field Work Compl Report CC-RVAAP-83	20	06OC112						ipl Report CC-RVAAP-83				
1960 0004	Submit Field Work Compl Report CC-RVAAP-83	0		25OCT12	1 1 1 1		Submi	t rieia Work Compl R	Report CC-RVAAP-83				
Site Investigati			0.000	0.47577									
1970 0004	Develop SI Report - Pre-Draft CC-RVAAP-83	40	26OCT12	04DEC12	i <mark>l</mark> i i i i			elop SI Report - Pre-D					
1975 0004	Submit Pre-Draft SIR To Army CC-RVAAP-83	0		04DEC12					Army CC-RVAAP-83				
1980 0004	Army Revw SI Report - Pre-Draft CC-RVAAP-83	30	05DEC12	03JAN13					Pre-Draft CC-RVAAP-83				
1990 0004	Comment Res Mtg SIR Pre-Draft CC-RVAAP-83	2	04JAN13	07JAN13				Comment Res Mtg SIR	Pre-Draft CC-RVAAP-83				
2010 0004	Revise & Submit SI Report - Draft CC-RVAAP-83	20	08JAN13	27JAN13				Revise & Submit SI R	eport - Draft CC-RVAAP-	83			
2020 0004	Army/Ohio EPA Review SIR Draft CC-RVAAP-83	45	28JAN13	13MAR13		1 1 1 1		Army/Ohio EPA R	Review SIR Draft CC-RVA	AP-83			
2030 0004	Comment Res Mtg SIR Draft CC-RVAAP-83	2	14MAR13	15MAR13				Comment Res Mtg	g SIR Draft CC-RVAAP-83	3			
2050 0004	Prep&Submit Final SIR To Army/Ohio EPA RVAAP-83	7	16MAR13	22MAR13				Prep&Submit Fin	nal SIR To Army/Ohio EPA	A RVAAP-83			
2060 0004	Army/Ohio EPA Revw & Apprv Final SIR RVAAP-83	45	23MAR13	06MAY13				Army/Ohio E	PA Revw & Apprv Final S	IR RVAAP-83			
2070 0004	Submit SI Report - Final - CC-RVAAP-83	0		06MAY13		1 1 1 1		Submit SI Re	eport - Final - CC-RVAAP	2-83			
Site Investigati	ion												
83-8500 0004	Approved Site Inspection CC-RVAAP-83	0		06MAY13				Approved Si	ite Inspection CC-RVAAP-	83			
								♦ 30JUL1					
Subtotal 0004		305	19FEB12	06MAY13									
CLIN 0005 S	Site Inspection CC-RVAAP-70,72,75,77												
	For CC-RVAAP-70, 72, 75, 77												
	ion Work Plan CLIN 5	•	10777714	103.51.73.15					_				
2110 0005	Prep & Submit Pre-Draft SIWP To Army CLIN 5	30	19FEB12	19MAR12				SIWP To Army CLIN					
2120 0005	Submit Pre-Draft SIWP To Army CLIN 5	0		19MAR12			bmit Pre-Draft SIWP						
2130 0005	Army Review Pre-Draft SIWP CLIN 5	30	30MAR12				Army Review Pre-Dra						
2140 0005	Attend Comment Resolution Meeting SIWP CLIN 5	1	30APR12	30APR12				olution Meeting SIWP					
2150 0005	Prep&Submit Draft SIWP To Army/Ohio EPA CLIN 5	20		20MAY12				SIWP To Army/Ohio l			1 1 1 1 1 1	1 1 1 1 1 1 1	
2160 0005	Army/Ohio EPA Review Draft SIWP CLIN 5	45	21MAY12					Review Draft SIWP C					
2170 0005	Attend Comment Resolution Mtg Drft SIWP CLIN 5	3	05JUL12	09JUL12			Attend Commen	t Resolution Mtg Drft	SIWP CLIN 5				
2180 0005	Prep & Submit Final SIWP To Army/EPA CLIN 5	20	10JUL12	29JUL12			Prep & Submi	t Final SIWP To Army	/EPA CLIN 5				
2190 0005	Army /Ohio EPA Revw & Approve Fnl SIWP CLIN 5	45	30JUL12	12SEP12			Army /Ohi	o EPA Revw & Approv	ve Fnl SIWP CLIN 5				
CC-RVAAP-7	5 (George Rd Sewage Treatment Plant)												
SI Field Investi													
2200 0005	Request For Sites Access CLIN 5	14	13SEP12	26SEP12			Request F	or Sites Access CLIN 5	5				
2350 0005	Mobilize To Site CC-RVAAP-75 CLIN 5	1	27SEP12	27SEP12				To Site CC-RVAAP-75					
2360 0005	Conduct Field Investigation CC-RVAAP-75 CLIN 5	5	28SEP12	04OCT12				Field Investigation CC					
2370 0005	Demobilize Off-Site CC-RVAAP-75 CLIN 5	1	05OCT12	05OCT12				ze Off-Site CC-RVAAl					
2380 0005	Conduct Lab Analysis CC-RVAAP-75 CLIN 5	10	05OCT12				· · · · · · · · · · · · · · · · · · ·	t Lab Analysis CC-RV					
2390 0005	Data Review Meeting CC-RVAAP-75 CLIN 5	2	22OCT12		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			eview Meeting CC-RV			1 1 1 1 1 1	1 1 1 1 1 1 1	
2390 0003	Data Review Miceting CC-RVAAF-/3 CLIN 3		2200112	2500112			Data Ke	view wieening UC-RV	MAI -/3 CLIIV 3			1 1 1 1 1 1 1	1 1 1 1 1

Activity	CLIN	Activity Description	Cal Days	Early Start	Early Finish	2011 2012 2013 2014 2015 2016 2017 J A S O N D J F M A M J J A S O N D J F M A
CC-RV	4AP-72	(Facility-Wide UG Storage Tanks)	Days	Start	Timon	-1 1 2 3 4 5 6 7 8 9 10 11 112 13 14 15 16 17 18 19 20 21 12 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 5 6 67 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 7
	Investig					
	0005	Mobilize To Site CC-RVAAP-72 CLIN 5	1	09OCT12	09OCT12	Mobilize To Site CC-RVAAP-72 CLIN 5
2280	0005	Conduct Field Investigation CC-RVAAP-72 CLIN 5	10	10OCT12	23OCT12	Conduct Field Investigation CC-RVAAP-72 CLIN 5
2290	0005	Demobilize Off-Site CC-RVAAP-72 CLIN 5	1	24OCT12	24OCT12	Demobilize Off-Site CC-RVAAP-72 CLIN 5
2300	0005	Conduct Lab Analysis CC-RVAAP-72 CLIN 5	10	24OCT12	06NOV12	Conduct Lab Analysis CC-RVAAP-72 CLIN 5
2310	0005	Data Review Meeting CC-RVVAP-72 CLIN 5	2	07NOV12	08NOV12	Data Review Meeting CC-RVVAP-72 CLIN 5
CC-RV	AAP-70	(East Classification Yard)				
SI Field	Investig	ation				
2210	0005	Mobilize To Site CC-RVAAP-70 CLIN 5	2		26OCT12	Mobilize To Site CC-RVAAP-70 CLIN 5
	0005	Conduct Field Investigation CC-RVAAP-70 CLIN 5	5		02NOV12	Conduct Field Investigation CC-RVAAP-70 CLIN 5
	0005	Demobilize Off-Site CC-RVAAP-70 CLIN 5	1		05NOV12	Demobilize Off-Site CC-RVAAP-70 CLIN 5
	0005	Conduct Lab Analysis CC-RVAAP-70 CLIN 5	10		19NOV12	Conduct Lab Analysis CC-RVAAP-70 CLIN 5
	0005	Data Review Meeting CC-RVAAP-70 CLIN 5	2	20NOV12	21NOV12	Data Review Meeting CC-RVAAP-70 CLIN 5
CC-RV	AAP-77	(Bldg 1037-Laundry Waste Wtr Sump)				
	Investig	ation				
		Mobilize To Site CC-RVAAP-77 CLIN 5	1		06NOV12	Mobilize To Site CC-RVAAP-77 CLIN 5
	0005	Conduct Field Investigation CC-RVAAP-77 CLIN 5	5		14NOV12	Conduct Field Investigation CC-RVAAP-77 CLIN 5
	0005	Demobilize Off-Site CC-RVAAP-77 CLIN 5	2		16NOV12	Demobilize Off-Site CC-RVAAP-77 CLIN 5
	0005	Conduct Lab Analysis CC-RVAAP-77 CLIN 5	10		29NOV12	Conduct Lab Analysis CC-RVAAP-77 CLIN 5
		Data Review Meeting CLIN 5	2	30NOV12	03DEC12	Data Review Meeting CLIN 5
		mpletion Report CLIN 5				
		pletion Report CLIN 5				
		Prep/Submit Field Work Compl Report CLIN 5	20	04DEC12	23DEC12	Prep/Submit Field Work Compl Report CLIN 5
2510		Submit Field Work Compl Report CLIN 5	0		23DEC12	Submit Field Work Compl Report CLIN 5
		ion Report CLIN 5				
		pletion Report CLIN 5				
		Develop SI Report - Pre-Draft CLIN 5	40	24DEC12		Develop SI Report - Pre-Draft CLIN 5
		Submit Pre-Draft SIR To Army CLIN 5	0	00000015	01FEB13	Submit Pre-Draft SIR To Army CLIN 5
	0005	Army Revw SI Report - Pre- Draft - CLIN 5	30		03MAR13	Army Revw SI Report - Pre- Draft - CLIN 5
2570	0005	Comment Res Mtg SIR Pre-Draft CLIN 5	2		05MAR13	Comment Res Mtg SIR Pre-Draft CLIN 5
2590	0005	Revise & Submit SI Report - Draft CLIN 5	20		25MAR13	Revise & Submit SI Report - Draft CLIN 5
	0005	Army/Ohio EPA Review SIR Draft CLIN 5	45		09MAY13	Army/Ohio EPA Review SIR Draft CLIN 5
	0005	Comment Res Mtg SIR Draft CLIN 5 Prant Submit Final SIR To Army/Objo FRA CLIN 5	20		13MAY13	Comment Res Mtg SIR Draft CLIN 5
2630 2640	0005	Prep&Submit Final SIR To Army/Ohio EPA CLIN 5 Army/Ohio EPA Revw & Apprv Final SIR CLIN 5	45	03JUN13	02JUN13 17JUL13	Prep&Submit Final SIR To Army/Ohio EPA CLIN 5 Army/Ohio EPA Revw & Appry Final SIR CLIN 5
	0005	Submit SI Report - Final - CLIN 5	1 43	033 01113	17JUL13 17JUL13	Submit SI Report - Final - CLIN 5
		Inspection CLIN 5	U		1730113	Aprint of Thirty Control of the Cont
		sinspection CLIN 5				
	0005	Approved Site Inspection CC-RVAAP-70 CLIN 5	0		17JUL13	Approved Site Inspection CC-RVAAP-70 CLIN 5
2710	0005	Approved Site Inspection CC-RVAAP-72 CLIN 5	0		17JUL13	♦30JUL13 •• Approved Site Inspection CC-RVAAP-72 CLIN 5
						30JUL13
	0005	Approved Site Inspection CC-RVAAP-75 CLIN 5	0		17JUL13	Approved Site Inspection CC-RVAAP-75 CLIN 5
2730	0005	Approved Site Inspection CC-RVAAP-77 CLIN 5	0		17JUL13	Approved Site Inspection CC-RVAAP-77 CLIN 5
Subtotal	0005		355	19FEB12	17JUL13	
CLIN 0	006 R	CC-RVAAP-79 (Main Ore Storage Yard)				
CC-RV	4AP-7 9	(DLA Ore Storage Site-Main Ore Yard)				
		Igation Work Plan	20	10EED 12	101/44 D 12	Drop C Cubarit Dro Droft DAVD To Army CO DV AAD 70
2815	0006	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-79	30	19FEB12	19MAR12	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-79

						2011	2012 2013 2014 2015 2016 2017
Activity	y CLIN	•	Cal	Early	Early	JASON	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
ID		Description	Days	Start	Finish	1 1 2 3	4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970
2820	0006	Submit Pre-Draft RIWP To Army CC-RVAAP-79	0		19MAR12		Submit Pre-Draft RIWP To Army CC-RVAAP-79
2825	0006	Army Review Pre-Draft RIWP CC-RVAAP-79	30	30MAR12	28APR12		Army Review Pre-Draft RIWP CC-RVAAP-79
2830	0006	Attend Comment Resolution Meeting RIWP RVAAP-79	1	30APR12	30APR12		Attend Comment Resolution Meeting RIWP RVAAP-79
2835	0006	Rev&Submit Draft RIWP To Army/Ohio EPA RVAAP-79	20	01MAY12			Rev&Submit Draft RIWP To Army/Ohio EPA RVAAP-79
2840	0006	Army/Ohio EPA Review Draft RIWP CC-RVAAP-79		21MAY12			Army/Ohio EPA Review Draft RIWP CC-RVAAP-79
2845	0006	Attend Comment Resolution Mtg Drft RIWP RVAAP-79	2.	05JUL12	06JUL12		Attend Comment Resolution Mtg Drft RIWP RVAAP-79
2850	0006	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-79	20	07JUL12	26JUL12		Prep & Submit Final RIWP To Army/EPA CC-RVAAP-79
2855	0006	<u> </u>		27JUL12	09SEP12		
	0006	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-79 Submit RI Work Plan - Final CC-RVAAP-79	45	2/JUL12	09SEP12 09SEP12		Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-79 Submit RI Work Plan - Final CC-RVAAP-79
2860			U		UFBEP12		SUMBLE ALVOUR FIGHT FINAL CU-RYAAF-77
	oooe		1.	01 A DD 12:	1/APD 10		
2950	0006	Request For Site Access CC-RVAAP-79	14	01APR13*			Request For Site Access CC-RVAAP-79
2960	0006	Mobilize To Site CC-RVAAP-79	$\frac{2}{2}$				Mobilize To Site CC-RVAAP-79
2970	0006	Conduct Field/Conf. Sampling/Remvl Action - 79	30	17APR13			Conduct Field/Conf. Sampling/Remvl Action - 79
2980	0006	Demobilize Off-Site CC-RVAAP-79	2	17MAY13			Demobilize Off-Site CC-RVAAP-79
2975	0006	Conduct Lab Analysis CC-RVAAP-79	30	17MAY13	15JUN13		Conduct Lab Analysis CC-RVAAP-79
3000	0006	Data Review Meeting CC-RVAAP-79		17JUN13	18JUN13		Data Review Meeting CC-RVAAP-79
Field V	ork Con	npletion Report					
3010	0006	Prep/Submit Field Work Compl Report CC-RVAAP-79	20	19JUN13	08JUL13		Prep/Submit Field Work Compl Report CC-RVAAP-79
3020	0006	Submit Field Work Compl Report CC-RVAAP-79	0		08JUL13		Submit Field Work Compl Report CC-RVAAP-79
		tigation Report	حتين				
3050	0006	Develop RIR - Pre-Draft CC-RVAAP-79	40	09JUL13	17AUG13		Develop RIR - Pre-Draft CC-RVAAP-79
3055	0006	Submit Pre-Draft RIR To Army CC-RVAAP-79	0		17AUG13		Submit Pre-Draft RIR To Army CC-RVAAP-79
		•					
3060	0006	Army Revw RIR - Pre-Draft CC-RVAAP-79	30	18AUG13	16SEP13		Army Revw RIR - Pre-Draft CC-RVAAP-79
3080	0006	Revise & Submit RIR - Draft CC-RVAAP-79	20		06OCT13		Revise & Submit RIR - Draft CC-RVAAP-79
3110	0006	Army/Ohio EPA Revw RIR Draft CC-RVAAP-79	45				Army/Ohio EPA Revw RIR Draft CC-RVAAP-79
3120	0006	Comment Res Mtg Draft RIR CC-RVAAP-79	2	21NOV13			Comment Res Mtg Draft RIR CC-RVAAP-79
3150	0006	Revise & Submit RIR Final CC-RVAAP-79	20	23NOV13			Revise & Submit RIR Final CC-RVAAP-79
3160	0006	Army/Ohio EPA Revw & Apprv RIR Final CC-RVAAP-79	45	13DEC13	26JAN14		Army/Ohio EPA Revw & Apprv RIR Final CC-RVAAP-79
3170	0006	Submit RIR Final - CC-RVAAP-79	0		26JAN14		Submit RIR Final - CC-RVAAP-79
	lial Inves	tigation					
		Approved RI Main Ore Storage Yd CC-RVAAP-79	0		26JAN14		◆Approved RI Main Ore Storage Yd CC RVAAP-79
	\perp			l			ullet
Subtotal	0006		485	19FEB12	26JAN14		
CLIN)007 F	easibility Study CC-RVAAP-76					
		6 (Depot Area)					
		ly Work Plan		1077	107.7		
		Prep & Submit Pre-Draft FSWP To Army CC-RVAAP-76	30	19FEB12			Prep & Submit Pre-Draft FSWP To Army CC-RVAAP-76
3270	0007	Submit Pre-Draft FSWP To Army CC-RVAAP-76	0		19MAR12		Submit Pre-Draft FSWP To Army CC-RVAAP-76
3280	0007	Army Review Pre-Draft FSWP CC-RVAAP-76	30	30MAR12			Army Review Pre-Draft FSWP CC-RVAAP-76
3290	0007	Attend Comment Resolution Meeting FSWP RVAAP-76	1	30APR12			Attend Comment Resolution Meeting FSWP RVAAP-76
3300	0007	Prep&Submit Draft FSWP To Army/Ohio EPA RVAAP-76	20	01MAY12	20MAY12		Prep&Submit Draft FSWP To Army/Ohio EPA RVAAP-76
3310	0007	Army/Ohio EPA Review Draft FSWP CC-RVAAP-76	45	21MAY12	04JUL12		Army/Ohio EPA Review Draft FSWP CC-RVAAP-76
3320	0007	Attend Comment Resolution Mtg Drft FSWP RVAAP-76	3		09JUL12		Attend Comment Resolution Mtg Drft FSWP RVAAP-76
3330	0007	Prep & Submit Final FSWP To Army/EPA CC-RVAAP-76	20		29JUL12		Prep & Submit Final FSWP To Army/EPA CC-RVAAP-76
3340		Army /Ohio EPA Revw & Approve Fnl FSWP RVAAP-76	45	30JUL12	12SEP12		Army /Ohio EPA Revw & Approve Fnl FSWP RVAAP-76
Field V		, 221110. II WILPHOTOTIMI OTT KYAMI-70	1.5	2000112			
3370	0007	Request For Site Access CC-RVAAP-76	14	01APR13*	14APD 12		Request For Site Access CC-DVAAD-76
		1	14				Request For Site Access CC-RVAAP-76
3380	0007	Mobilize To Site CC-RVAAP-76	2	15APR13			Mobilize To Site CC-RVAAP-76
3390	0007	Conduct Field Work - RVAAP-76	20	17APR13			Conduct Field Work - RVAAP-76
3400	0007	Demobilize Off-Site CC-RVAAP-76		07MAY13			Demobilize Off-Site CC-RVAAP-76
3410	0007	Conduct Lab Analysis CC-RVAAP-76	30	07MAY13			Conduct Lab Analysis CC-RVAAP-76
3420	0007	Data Review Meeting CC-RVAAP-76	2	06JUN13	07JUN13		Data Review Meeting CC-RVAAP-76

Activity	CLIN	Activity	Cal	Early	Early	201	11 2012	2013 A M J J A S O N D J F M A M J J A S O N D J F 2122232425262728293031323334353637383940414243	2015 2016	2017 S O N D I E M A IA
ID		Description	Days	Start	Finish	1 1 2	3 4 5 6 7 8 9 10111213141516171819202	122232425262728293031323334353637383940414243	34445464748495051525354555657585960616	52 63 64 65 66 67 68 69 70
Field Wo	ork Com	pletion Report								
3440	0007	Prep/Submit Field Work Compl Report CC-RVAAP-76	20	08JUN13	27JUN13	1 1 1		Prep/Submit Field Work Compl Report CC-RVA	AP- 76	
3450	0007	Submit Field Work Compl Report CC-RVAAP-76	0		27JUN13			Submit Field Work Compl Report CC-RVAAP-7	76	
Feasibili	ity Stud	y Report								
3470	0007	Develop FS Report - Pre-Draft CC-RVAAP-76	40	28JUN13	06AUG13			Develop FS Report - Pre-Draft CC-RVAAP-76		
3475	0007	Submit Pre-Draft FS Report CC-RVAAP-76	0		06AUG13			Submit Pre-Draft FS Report CC-RVAAP-76		
3480	0007	Army Revw FS Report - Pre-Draft CC-RVAAP-76	30	07AUG13	05SEP13			Army Revw FS Report - Pre-Draft CC-RVA	AP-76	
3490	0007	Comment Res Mtg FS Pre-Draft CC-RVAAP-76	2	06SEP13	09SEP13			Comment Res Mtg FS Pre-Draft CC-RVAA		
3510	0007	Revise & Submit FS Report - Draft CC-RVAAP-76	20	10SEP13	29SEP13			Revise & Submit FS Report - Draft CC-RV	AAP-76	
	0007	Army/Ohio EPA Review FS Draft CC-RVAAP-76	45		13NOV13			Army/Ohio EPA Review FS Draft CC-		
	0007	Comment Res Mtg SFS Draft CC-RVAAP-76	2	14NOV13				Comment Res Mtg SFS Draft CC-RVA		
	0007	Prep&Submit Final FS To Army/Ohio EPA RVAAP-76	30					Prep&Submit Final FS To Army/Oh		
	0007	Army/Ohio EPA Revw & Apprv Final FS RVAAP-76	45	16DEC13	29JAN14			Army/Ohio EPA Revw & Apprv		
	0007	Submit FS Report - Final CC-RVAAP-76	0		29JAN14			Submit FS Report - Final CC-F	RVAAP-76	
Feasibili										
76-8500	0007	Approved Feasibility Study CC-RVAAP-76	0		29JAN14			◆Approved Feasibility Study CC	FRVAAP-76	
Subtotal	0007		100	19FEB12	2014 N114			30JUN14		
		1 00 00 70 74 700 70 / 0 0 - 0'/	488	19FEB12	29JAN14	1 1 1				
		l 68,69,73,74,78&79 (Rem Ore Sites)								
CLIN 00	08 RI	For CC-RVAAP 68, 69, 73, 74 78 & 79								
Remedia	al Inves	igation Work Plans								
3710	8000	Develop RI Work Plan Pre-Draft CLIN 8	60	01AUG13*	29SEP13			Develop RI Work Plan Pre-Draft CLIN 8		
3715	8000	Submit Pre-Draft RIWP CLIN 8	0		29SEP13			Submit Pre-Draft RIWP CLIN 8		
3720	8000	Army Revw RI WP Pre-Draft CLIN 8	30	30SEP13	29OCT13			Army Revw RI WP Pre-Draft CLIN 8		
3740	8000	Revise & Submit RI WP Draft CLIN 8	40	30OCT13	08DEC13			Revise & Submit RI WP Draft CLIN	8	
3770	8000	Army/Ohio EPA Revw RI Draft CLIN 8	45		22JAN14			Army/Ohio EPA Revw RI Draft	CLIN 8	
3780	8000	Comment Res Mtg Draft RIWP CLIN 8	2	23JAN14	24JAN14			Comment Res Mtg Draft RIWP		
3810	8000	Revise & Submit RI WP Final CLIN 8	30	25JAN14	23FEB14			Revise & Submit RI WP Final		
3820	8000	Army/Ohio EPA Revw & Apprv RI Fnl CLIN8	45	24FEB14	09APR14	1 1 1		Army/Ohio EPA Revw & A	Apprv RI Fnl CLIN8	
3830	8000	Submit RI WP CLIN 8	0		09APR14			Submit RI WP CLIN 8		
CC-RVA	AAP-68	(Elect Substa East, West No. 3)								
Field Inv	estigati	on								
3850	8000	Request For Site Access CC-RVAAP-68 CLIN 8	14	24FEB14	09MAR14			Request For Site Access CC-I	RVAAP-68 CLIN 8	
3860	8000	Mobilize To Site CC-RVAAP-68 CLIN 8	2	10APR14	11APR14			Mobilize To Site CC-RVA	AP-68 CLIN 8	
3870	8000	Conduct Field Sampling CC-RVAAP-68 CLIN 8	5	14APR14	18APR14			Conduct Field Sampling C	CC-RVAAP-68 CLIN 8	
3890	8000	Conduct Lab Analysis CC-RVAAP-68 CLIN 8	30	19APR14	18MAY14			Conduct Lab Analysis	CC-RVAAP-68 CLIN 8	
3880	8000	Demobilize Off-Site CC-RVAAP-68 CLIN 8	1	21APR14		1 1 1		Demobilize Off-Site CC-R	RVAAP-68 CLIN 8	
3900	8000	Data Review Meeting CC-RVAAP-68 CLIN 8	2	19MAY14	20MAY14			Data Review Meeting C	CC-RVAAP-68 CLIN 8	
CC-RVA	AAP-69	(Bldg 1048-Fire Station)								
Field Inv	estigati	on								
3930	8000	Mobilize To Site CC-RVAAP-69 CLIN 8	1	22APR14	22APR14			Mobilize To Site CC-RVA	AP-69 CLIN 8	
3940	8000	Conduct Field Sampling CC-RVAAP-69 CLIN 8	5	23APR14	29APR14			Conduct Field Sampling	CC-RVAAP-69 CLIN 8	
3950	8000	Demobilize Off-Site CC-RVAAP-69 CLIN 8	1	30APR14	30APR14			Demobilize Off-Site CC-1	RVAAP-69 CLIN 8	
3960	8000	Conduct Lab Analysis CC-RVAAP-69 CLIN 8	30	30APR14	29MAY14			Conduct Lab Analysis	CC-RVAAP-69 CLIN 8	
3970	8000	Data Review Meeting CC-RVAAP-69 CLIN 8	2	30MAY14	02JUN14			Data Review Meeting	CC-RVAAP-69 CLIN 8	
CC-RVA	AP-73	(Facility-Wide Coal Storage)								
Field Inv										
	0008	Mobilize To Site CC-RVAAP-73 CLIN 8	1	01MAY14	01MAY14			Mobilize To Site CC-RV	AAP-73 CLIN 8	
	8000	Conduct Field Sampling CC-RVAAP-73 CLIN 8	5	02MAY14				Conduct Field Sampling		
	8000	Demobilize Off-Site CC-RVAAP-73 CLIN 8	1	09MAY14				Demobilize Off-Site CC-		
	0008	Conduct Lab Analysis CC-RVAAP-73 CLIN 8	30	09MAY14					S CC-RVAAP-73 CLIN 8	
	8000	Data Review Meeting CC-RVAAP-73 CLIN 8	2						CC-RVAAP-73 CLIN 8	
		-	1							

Activity	CLIN	Activity	Cal	Early	Early	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
ID		Description	Days	Start	Finish	-1 1 2 3 4 5 6 7 8 9 101112131415 16171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686
CC-RVA	AP-74	(Bldg 1034-Mtr Pool Hydraulic Lift)				
Field Inve		on				
		Mobilize To Site CC-RVAAP-74 CLIN 8	1	12MAY14	12MAY14	Mobilize To Site CC-RVAAP-74 CLIN 8
	8000	Conduct Field Sampling CC-RVAAP-74 CLIN 8	5		19MAY14	Conduct Field Sampling CC-RVAAP-74 CLIN 8
4090	8000	Demobilize Off-Site CC-RVAAP-74 CLIN 8	1		20MAY14	Demobilize Off-Site CC-RVAAP-74 CLIN 8
4100	8000	Conduct Lab Analysis CC-RVAAP-74 CLIN 8	30	20MAY14		Conduct Lab Analysis CC-RVAAP-74 CLIN 8
4110	8000	Data Review Meeting CC-RVAAP-74 CLIN 5	2	19JUN14	20JUN14	Data Review Meeting CC-RVAAP-74 CLIN 5
CC-RVA	AP-78	(Quarry Pond Surface Dump)				
Field Inve	estigati	on				
4150	8000	Mobilize To Site CC-RVAAP-78 CLIN 8	1	21MAY14	21MAY14	Mobilize To Site CC-RVAAP-78 CLIN 8
4160	8000	Conduct Field Sampling CC-RVAAP-78 CLIN 8	10	22MAY14	05JUN14	Conduct Field Sampling CC-RVAAP-78 CLIN 8
4170	8000	Demobilize Off-Site CC-RVAAP-78 CLIN 8	1	06JUN14	06JUN14	Demobilize Off-Site CC-RVAAP-78 CLIN 8
	8000	Conduct Lab Analysis CC-RVAAP-78 CLIN 8	30	06JUN14	05JUL14	Conduct Lab Analysis CC-RVAAP-78 CLIN 8
4190	8000	Data Review Meeting CC-RVAAP-78 CLIN 5	2	07JUL14	08JUL14	Data Review Meeting CC-RVAAP-78 CLIN 5
CC-RVA	AP-79	(DLA Ore Storage - Remaining Sites)				
Field Inve						
	8000	Mobilize To Site CC-RVAAP-79RS CLIN 8	1	09JUN14	09JUN14	Mobilize To Site CC-RVAAP-79R\$ CLIN 8
4240	8000	Conduct Field Sampling CC-RVAAP-79RS CLIN 8	10	10JUN14	23JUN14	Conduct Field Sampling CC-RVAAP-79RS CLIN 8
4250 (8000	Demobilize Off-Site CC-RVAAP-79RS CLIN 8	2	24JUN14	25JUN14	Demobilize Off-Site CC-RVAAP-79RS CLIN 8
4260 (8000	Conduct Lab Analysis CC-RVAAP-79 CLIN 8	30	24JUN14	23JUL14	Conduct Lab Analysis CC-RVAAP-79 CLIN 8
4270	8000	Data Review Meeting CC-RVAAP-79 CLIN 8	2	24JUL14	25JUL14	Data Review Meeting CC-RVAAP-79 CLIN 8
ield Wo	ork Co	mpletion Report CLIN 8				
		pletion Report				
		Prep/Submit Field Work Compl Report CLIN 8	20	26JUL14	14AUG14	Prep/Submit Field Work Compl Report CLIN 8
		Submit Field Work Compl Report CLIN 8	0		14AUG14	Submit Field Work Compl Report CLIN 8
		stigation Report CLIN 8				
		igation Reports				
1		Dev RIR Pre-Draft CLIN 8	8	15AUG14	22AUG14	Dev RIR Pre-Draft CLIN 8
		Submit Pre-Draft RI Report CLIN 8	0		22AUG14	Submit Pre-Draft RI Report CLIN 8
	0008	Army Revw RIR Pre-Draft CLIN 8	30	23AUG14		Army Revw RIR Pre-Draft CLIN 8
	0008	Comment Res Mtg Pre-Draft RI Rpt CLIN 8	2	22SEP14	23SEP14	Comment Res Mtg Pre-Draft RI Rpt CLIN 8
	0008	Revise & Submit RIR Draft CLIN 8	30	24SEP14	23OCT14	Revise & Submit RIR Draft CLIN 8
	0008	Army/Ohio EPA Revw RIR Draft CLIN 8	45	24OCT14	07DEC14	Army/Ohio EPA Revw RIR Draft CLIN 8
	0008	Comment Res Mtg RIR CLIN 8	2	08DEC14	09DEC14	Comment Res Mtg RIR CLIN 8
	0008	Revise & Submit RIR Final CLIN 8	40	10DEC14	18JAN15	Revise & Submit RIR Final CLIN 8
	0008	Army/Ohio EPA Revw & Apprv RIR Fnl CLIN8	45		04MAR15	Army/Ohio EPA Revw & Apprv RIR Fnl CLIN8
4470	0008	Submit RI Report - Final - CLIN 8	0		04MAR15	Submit RI Report - Final - CLIN 8
Approve		nedial Investigation CLIN 8				
Remedia						
68-8500		Apprvd RI Elect Substa E,W & 3 CC-RVAAP-68 CLIN8	0		04MAR15	Apprvd RI Elect Substa E,W & 3 CC-RVAAP-68 CLIN8
69-8500	0008	Apprvd Remedial Investigation CC-RVAAP-69 CLIN 8	0		04MAR15	4 . •
73-8500	8000	Apprvd Remedial Investigation CC-RVAAP-73 CLIN 8	0		04MAR15	◆Apprvd Remedial Investigation CC-RVAAP-73 CLIN 8
74-8500	0008	Apprvd Remedial Investigation CC-RVAAP-74 CLIN 8	0		04MAR15	◆30JUL15 Apprvd Remedial Investigation CC-RVAAP-74 CLIN 8
78-8500	0008	Apprvd Remedial Investigation CC-RVAAP-78 CLIN 8	0		04MAR15	
79-8500	0008	Apprvd RI Remaining Sites CC-RVAAP-79RS CLIN 8	0		04MAR15	◆30JUL15 Apprvd RI Remaining Sites CC-RVAAP-79RS CLIN 8
Subtotal (0008		397	01AUG13	04MAR15	
			1 -2.			

CEAN_ADDITION CEAN_ADDITIO	Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	J A S	2011 2012 2013 2014 2015 2015 2016 2017 A S O N D J F M A M J J A S O N D J F
Control Cont	CLIN 0	009(O					-1 1 2	1 2 3 4 3 0 7 6 7 10111213141310171017202122232423202720273031323354335037303740414243444340474047303132335433503730370001020304030007000270
200 200			·					
\$190 \$190				30	30SEP13	29OCT13	1 1	Pren & Submit Pre-Draft RIWP To Army CC-RVA AP-70
SITE 1007			-	0	SOBEI 15		1	
1005 Alter Comment Revention Westing (RWP RYAAP 70 2) 100					09NOV13		- ; ;	■
\$1,000 \$			•	2			- ! !	<u> </u>
512 0000 Amy Chain PAR Review Date REPOY C. SYAAR 70 4.5 SURCELL STEELE				20				
1.5 100			1	45				
				2			1	<u> </u>
\$110 \$000 Aury Other PA Reve & Agrees Pa BAWR PAAP 70 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5135	0009	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-70	30	19FEB14	20MAR14		
Submit Month Mon	5140	0009	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-70	45	21MAR14	04MAY14	1 !	<u> </u>
Modeline To Sine CCRYAAP70	5145	0009		0		04MAY14		Submit RI Work Plan - Final CC-RVAAP-70
Modeline To Sine CCRYAAP70	Field In	vestigati	on					
S200 000 Conduct Lab Analysis CC.RYAAP 70 2 40 LNI 170 LNI 1				1	30MAY14	30MAY14		Mobilize To Site CC-RVAAP-70
S20 000 Conduct als Analysis CC RYAAP 70 2 SUNIT 13/UL1 13/UL	5260	0009	Conduct Field Sampling CC-RVAAP-70	10	02JUN14	13JUN14		Conduct Field Sampling CC-RVAAP-70
Data Data Data Review Meeting CCEVAAP-70 2 14111-14 3511.14	5280	0009	Conduct Lab Analysis CC-RVAAP-70	30	14JUN14	13JUL14		• · · · · · · · · · · · · · · · · · · ·
Field Work Completion Proport Proposition Fleid Work Compl Report CC.RVAAP-70 O. IGUI 14 (IGUI 14)	5270	0009	Demobilize Off-Site CC-RVAAP-70	2	16JUN14	17JUN14		Demobilize Off-Site CC+RVAAP-70
300 009 Prog-Stabular Field Work Complex Report CC-RVAAP-70 0 (BAUGH SSEPI4 SSS 0009 Develop R Report - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 Saluma IR Pro-Dart R REC CRVAAP-70 0 (SAUGH SSEPI4 SSS 0009 Saluma IR Pro-Dart R REC CRVAAP-70 0 (SAUGH SSEPI4 SSS 0009 Saluma IR ROW R REV R Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH Report - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH Report - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH Report - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH Report - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH REPORT - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH REPORT - Pro-Dart CC-RVAAP-70 0 (SAUGH SSEPI4 SSS 0009 SAUGH REPORT - PRO-DART CC-RVAAP-70 0 (SAUGH SSEPI4 SSEPI4 SSS 0009 SAUGH REPORT - PRO-DART CC-RVAAP-70 0 (SAUGH SSEPI4	5290	0009	Data Review Meeting CC-RVAAP-70	2	14JUL14	15JUL14		Data Review Meeting CC-RVAAP-70
Solid Compared Residence Solid Compared Residence Solid Compared Residence Solid Report - Per-Darial CCRYAAP-70 Solid Compared Residence Solid Report - Per-Darial CCRYAAP-70 Solid Report - Per-Darial Repo	Field W	ork Com	pletion Report					
Boundard Investigation Report Pro-Darft CC-RVAAP-70			Prep/Submit Field Work Compl Report CC-RVAAP-70	20	16JUL14	04AUG14		Prep/Submit Field Work Compl Report CC-RVAAP-70
	5310	0009	Submit Field Work Compl Report CC-RVAAP-70	0		04AUG14	1 1	◆Submit Field Work Compl Report CC-RVAAP-70
Size Color Submit Re-Dorft RIR CC, RVAAP-70 0 ISSP14 Size ISSP14 Size C, RVAAP-70 Size	Remedi	al Invest	igation Report					
Systo Guy Army Reve Ri Report - Pre-Draft CC-RVAAP-70 30 ASEP14 JOCT14 Systo Gomment Res Mg RiR Pre-Draft CC-RVAAP-70 20 LOCT14 SOCT14 Systo Gomment Res Mg RiR Pre-Draft Rive Pre-Draft CC-RVAAP-70 20 LOCT14 Systo Gomment Res Mg Rir Rive Draft CC-RVAAP-70 Systo Gomment Res Mg Rir Rive Draft CC-RVAAP-70 20 LOCT14 Systo Gomment Res Mg Rir Rive Draft CC-RVAAP-70 Systo Gomment Res Mg Rir Rive Draft CC-RVAAP-70 20 LOCT14 Systo Gomment Res Mg Rir Rive Draft CC-RVAAP-70 20 LOCT14 Systo Gomment Res Mg Rir Rive Gomment Res Mg Rir Rive Draft CC-RVAAP-70 Systo Gomment Res Mg Rir Rive Rive Review Rive Rive CC-RVAAP-70 Systo Gomment Res Mg Rir Rive Rive Rive Rive Rive Rive Rive Rive	5350	0009	Develop RI Report - Pre-Draft CC-RVAAP-70	40	05AUG14	13SEP14		• • • • • • • • • • • • • • • • • • • •
S700 U.O.D. Comment Res Mig RIR Pro-Draft CC-RVAAP-70 2 140CT14 150CT14 S700 U.O.D. Revise & Submit RI Report - Print CC-RVAAP-70 20 160CT14 100CT14 1	5355	0009	Submit Pre-Draft RIR CC-RVAAP-70	0		13SEP14		Submit Pre-Draft RIR CC-RVAAP-70
System	5360	0009	Army Revw RI Report - Pre-Draft CC-RVAAP-70	30	14SEP14	13OCT14		Army Revw RI Report - Pre-Draft CC-RVAAP-70
September Sep				2		15OCT14		Comment Res Mtg RIR Pre-Draft CC-RVAAP-70
Salto 0009 PropeSubmit Find RIR CC:RVAAP-70 2 22DEC14 23DEC14			-	20			i i	
Set				45				<u> </u>
Sabo 1009 Amy/Ohio EPA Revw & Apprv Final RIR CC-RVAAP-70 45 23JAN15 08MAR15 08MA				2				
Submit R Report - Final - CC-RVAAP-70 O OSMAR15			1	30			1 11	la calla
Romedial Investigation Romedial Investigation CC-RVAAP-70 0 0.8MAR15				45	23JAN15		-	<u> </u>
To-8500 O009 Approved Remedial Investigation CC-RVAAP-70 O O8MAR15			-	0		08MAR15		Submit RI Report - Final - CC-RVAAP-70
Subtotal 0009 358 30SEP13 08MAR15			, <u>*</u>			00144715		
CC-RVAAP-71 (Barn No. 5 Petroleum Release) Remedial Investigation Work Plan 5505 0010 Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-71 5510 0010 Submit Pre-Draft RIWP To Army CC-RVAAP-71 5515 0010 Army Review Pre-Draft RIWP To Army CC-RVAAP-71 5520 0010 Attend Comment Resolution Meeting RIWP RVAAP-71 5520 0010 Prep & Submit Draft RIWP To Army CD-RVAAP-71 5520 0010 Attend Comment Resolution Meeting RIWP RVAAP-71 5530 0010 Army Noio EPA Review Draft RIWP CC-RVAAP-71 5530 0010 Army Noio EPA Review Draft RIWP CC-RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5540 0010 Prep & Submit Final RIWP To Army/Ohio EPA Rvew & Approve Fin RIWP RVAAP-71 5540 0010 Army /Ohio EPA Reve & Approve Fin RIWP RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5510 Investigation	70-8500	0009	Approved Remedial Investigation CC-RVAAP-70	0		U8MAR15		▼Approved Remedial Investigation CC-RVAAP-70
CC-RVAAP-71 (Barn No. 5 Petroleum Release) Remedial Investigation Work Plan 5505 0010 Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-71 5510 0010 Submit Pre-Draft RIWP To Army CC-RVAAP-71 5515 0010 Army Review Pre-Draft RIWP To Army CC-RVAAP-71 5520 0010 Attend Comment Resolution Meeting RIWP RVAAP-71 5520 0010 Prep & Submit Draft RIWP To Army CD-RVAAP-71 5520 0010 Attend Comment Resolution Meeting RIWP RVAAP-71 5530 0010 Army Noio EPA Review Draft RIWP CC-RVAAP-71 5530 0010 Army Noio EPA Review Draft RIWP CC-RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5530 0010 Attend Comment Resolution Mg Drft RIWP RVAAP-71 5540 0010 Prep & Submit Final RIWP To Army/Ohio EPA Rvew & Approve Fin RIWP RVAAP-71 5540 0010 Army /Ohio EPA Reve & Approve Fin RIWP RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5510 Investigation	Subtotal	0009		358	30SED13	08MAR15	1 11	
CC-RVAAP-71 (Barn No. 5 Petroleum Release) Remedial Investigation Work Plan			nt\Pomodial Investigation CC B\/AAB 74	330	JUSEI 13	JOIVIANIS		
Remedial Investigation Work Plan			· · · · · · · · · · · · · · · · · · ·					
5505 0010 Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-71 30 300CT13 28NOV13 5510 0010 Submit Pre-Draft RIWP To Army CC-RVAAP-71 0 28NOV13 5515 0010 Army Review Pre-Draft RIWP CC-RVAAP-71 30 09DEC13 07JAN14 5520 0010 Attend Comment Resolution Meeting RIWP RVAAP-71 1 08JAN14 08JAN14 5525 0010 Prep & Submit Draft RIWP To Army/Ohio EPA RVAAP-71 20 09JAN14 28JAN14 5530 0010 Army/Ohio EPA Review Draft RIWP CC-RVAAP-71 45 29JAN14 14MAR14 5535 0010 Attend Comment Resolution Mig Drft RIWP RVAAP-71 3 17MAR14 14MAR14 5540 0010 Prep & Submit Final RIWP To Army/EPA CC-RVAAP-71 20 20MAR14 08JAN14 5540 0010 Army /Ohio EPA Review Approve Fin RIWP To Army/EPA CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 45 09APR14 23MAY14 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 45 09APR14 23MAY14 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 45 09APR14 23MAY14 5560 0010 Submit RI Work Plan Final CC-RVAAP-71 45 09APR14 23MAY14 5560 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5560 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 570 0010			•					
5510 0010 Submit Pre-Draft RIWP To Army CC-RVAAP-71 0 28NOV13			ı, <u>*</u>	20	200000012	201/01/12		
5515 0010 Army Review Pre-Draft RIWP CC-RVAAP-71 30 09DEC13 07JAN14 1 1 1 1 1 1 1 1 1					300CT13		4 11	In the lateral result of the control of the contro
5520 0010 Attend Comment Resolution Meeting RIWP RVAAP-71 1 08JAN14 08JAN14 1 1 1 08JAN14 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			•	20	00DEC12			■ !
5525 0010 Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-71 20 09JAN14 28JAN14 5530 0010 Army/Ohio EPA Review Draft RIWP CC-RVAAP-71 45 29JAN14 14MAR14 5535 0010 Attend Comment Resolution Mtg Drft RIWP RVAAP-71 3 17MAR14 19MAR14 5540 0010 Prep & Submit Final RIWP To Army/EPA CC-RVAAP-71 20 20MAR14 08APR14 5545 0010 Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-71 45 09APR14 23MAY14 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 ♣Submit RI Work Plan Final CC-RVAAP-71 Field Investigation			·	30			-	
5530 0010 Army/Ohio EPA Review Draft RIWP CC-RVAAP-71 5535 0010 Attend Comment Resolution Mtg Drft RIWP RVAAP-71 5540 0010 Prep & Submit Final RIWP To Army/EPA CC-RVAAP-71 5545 0010 Army /Ohio EPA Review Braft RIWP CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 5560 0010 Submit RI Work Plan Final CC-RVAAP-71 5570 0010 Submit RI Work Plan Final CC-RVAAP-71 5580 0010 Submit RI Work Plan Final CC-RVAAP-71 5590 0010 Submit RI Work Plan Final CC-RVAAP-71 5590 0010 Submit RI Work Plan Final CC-RVAAP-71				20				<u> </u>
5535 0010 Attend Comment Resolution Mtg Drft RIWP RVAAP-71 3 17MAR14 19MAR14 5540 0010 Prep & Submit Final RIWP To Army/EPA CC-RVAAP-71 20 20MAR14 08APR14 5545 0010 Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-71 45 09APR14 23MAY14 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 Field Investigation			-					
5540 0010 Prep & Submit Final RIWP To Army/EPA CC-RVAAP-71 5545 0010 Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-71 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 6 20 20MAR14 08APR14 20 20MAR14 08APR14 21 20 20MAR14 08APR14 22 20MAR14 08APR14 23 20MAR14 08APR14 24 23MAY14 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 Field Investigation			•	43			+	
5545 0010 Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-71 45 09APR14 23MAY14 5550 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 Field Investigation			-	20				■
5550 0010 Submit RI Work Plan Final CC-RVAAP-71 0 23MAY14 Field Investigation							-	
Field Investigation				0	03AFK14		-	
				U		23IVIA I 14		Submit RI Work Flam Fillal CC-RVAAF-/I
			1	1	02JUN14	02.HJN14		Mobilize To Site CC-RVAAP-71
	2 300	1			2_3 01111	3-2-01111	1 1	

	Activity	CLIN	Activity	Cal	Early	Early	2 T A 6	2011 2012 2013 2014 2015 2015 2016 2017 S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M A M A M A M A M A M A M A M A M
	ID		Description	Days	Start	Finish	-1 1 2	2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970
Ш	5690	0010	Conduct Field Sampling CC-RVAAP-71	10	03JUN14	16JUN14	i	Conduct Field Sampling CC-RVAAP-71
	5700	0010	Demobilize Off-Site CC-RVAAP-71	2	17JUN14	18JUN14	1 1	Demobilize Off-Site CC-RVAAP-71
Ш	5710	0010	Conduct Lab Analysis CC-RVAAP-71	30	17JUN14	16JUL14		Conduct Lab Analysis CC-RVAAP-71
	5720	0010	Data Review Meeting CC-RVAAP-71	2	17JUL14	18JUL14		Data Review Meeting CC-RVAAP-71
	Field Wo	ork Com	pletion Report					
	5740	0010	Prep/Submit Field Work Compl Report CC-RVAAP-71	20	19JUL14	07AUG14		Prep/Submit Field Work Compl Report CC-RVAAP-71
	5750	0010	Submit Field Work Compl Report CC-RVAAP-71	0		07AUG14	1 1	Submit Field Work Compl Report CC-RVAAP-71
	Remedia	al Invest	igation Report	.	,			
	5800	0010	Develop RI Report - Pre-Draft CC-RVAAP-71	40	08AUG14	16SEP14	i	Develop RI Report - Pre-Draft CC-RVAAP-71
		0010	Submit Pre-Draft RIR CC-RVAAP-71	0		16SEP14	1 1	Submit Pre-Draft RIR CC-RVAAP-71
	5810	0010	Army Revw RI Report - Pre-Draft CC-RVAAP-71	30	17SEP14	16OCT14		Army Revw RI Report - Pre-Draft CC-RVAAP-71
	5820	0010	Comment Res Mtg RIR Pre-Draft CC-RVAAP-71	2		20OCT14	i	Comment Res Mtg RIR Pre-Draft CC-RVAAP-71
	5840	0010	Revise & Submit RI Report - Draft CC-RVAAP-71	20	21OCT14	09NOV14	1 1	Revise & Submit RI Report - Draft CC-RVAAP-71
		0010	Army/Ohio EPA Review RIR Draft CC-RVAAP-71	45	10NOV14			Army/Ohio EPA Review RIR Draft CC-RVAAP-71
		0010	Comment Res Mtg RIR Draft CC-RVAAP-71	2	26DEC14	29DEC14		Comment Res Mtg RIR Draft CC-RVAAP-71
		0010	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-71	20	30DEC14	18JAN15		Prep&Submit Final RIR To Army/Ohio EPA RVAAP-71
	5890	0010	Army/Ohio EPA Revw & Apprv Final RIR CC-RVAAP-71	45	19JAN15	04MAR15		Army/Ohio EPA Revw & Apprv Final RIR CC-RVAAP-71
	5900	0010	Submit RI Report - Final - CC-RVAAP-71	0		04MAR15		Submit RI Report - Final - CC-RVAAP-71
		al Invest						
	5920	0010	Approved Remedial Investigation CC-RVAAP-71	0		04MAR15		Approved Remedial Investigation CC-RVAAP-71
		0010			200000000	0.43.54.73.4.7	i	01AUG15
	Subtotal			335	30OCT13	04MAR15	1 1	
C	LIN 0	011(O	pt)Remedial Investigation CC-RVAAP-72					
	CC-RV	AAP-72	(Facility-Wide UG Storage Tanks)				i	
	Remedia	al Invest	igation Work Plan					
	6005	0011	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-72	30	29NOV13	28DEC13		Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-72
	6010	0011	Submit Pre-Draft RIWP To Army CC-RVAAP-72	0		28DEC13	i i	Submit Pre-Draft RIWP To Army CC-RVAAP-72
	6015	0011	Army Review Pre-Draft RIWP CC-RVAAP-72	30	08JAN14	06FEB14	1 1	Army Review Pre-Draft RIWP CC-RVAAP-72
	6020	0011	Attend Comment Resolution Meeting RIWP RVAAP-72	1	07FEB14	07FEB14		Attend Comment Resolution Meeting RIWP RVAAP-72
	6025	0011	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-72	20	08FEB14	27FEB14	i i	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-72
	6030	0011	Army/Ohio EPA Review Draft RIWP CC-RVAAP-72	45	28FEB14	13APR14		Army/Ohio EPA Review Draft RIWP CC-RVAAP-72
	6035	0011	Attend Comment Resolution Mtg Drft RIWP RVAAP-72	3	14APR14	16APR14		Attend Comment Resolution Mtg Drft RIWP RVAAP-72
	6040	0011	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-72	20	17APR14	06MAY14		Prep & Submit Final RIWP To Army/EPA CC-RVAAP-72
	6045	0011	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-72	45	07MAY14	20JUN14		Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-72
	6050	0011	Submit RI Work Plan Final CC-RVAAP-72	0		20JUN14		Submit RI Work Plan Final CC-RVAAP-72
	Field Inv	vestigati	on				1 1	
	6150		Mobilize To Site CC-RVAAP-72	1	23JUN14	23JUN14		Mobilize To Site CC-RVAAP-72
	6160	0011	Conduct Field Sampling CC-RVAAP-72	10	24JUN14	08JUL14		Conduct Field Sampling CC-RVAAP-72
	6170	0011	Demobilize Off-Site CC-RVAAP-72	2	09JUL14	10JUL14		Demobilize Off-Site CC-RVAAP-72
	6180	0011	Conduct Lab Analysis CC-RVAAP-72	30	09JUL14	07AUG14		Conduct Lab Analysis CC-RVAAP-72
	6190	0011	Data Review Meeting CC-RVAAP-72	2	08AUG14	11AUG14	i	Data Review Meeting CC-RVAAP-72
	Field Wo	ork Com	pletion Report					
	6200	0011	Prep/Submit Field Work Compl Report CC-RVAAP-72	20	12AUG14	31AUG14		Prep/Submit Field Work Compl Report CC-RVAAP-72
	6210	0011	Submit Field Work Compl Report CC-RVAAP-72	0		31AUG14	1 1	Submit Field Work Compl Report CC-RVAAP-72
	Remedia	al Invest	igation Report					
	6250	0011	Develop RI Report - Pre-Draft CC-RVAAP-72	40	01SEP14	10OCT14		Develop RI Report - Pre-Draft CC-RVAAP-72
	6255	0011	Submit Pre-Draft RIR To Army CC-RVAAP-72	0		10OCT14		Submit Pre-Draft RIR To Army CC-RVAAP-72
	6260	0011	Army Revw RI Report - Pre-Draft CC-RVAAP-72	30	110CT14	09NOV14		Army Revw RI Report - Pre-Draft CC-RVAAP-72
	6270	0011	Comment Res Mtg RIR Pre-Draft CC-RVAAP-72	2	10NOV14	12NOV14		Comment Res Mtg RIR Pre-Draft CC-RVAAP-72
	6290	0011	Revise & Submit RI Report - Draft CC-RVAAP-72	20	13NOV14	02DEC14	i [i	Revise & Submit RI Report - Draft CC-RVAAP-72
	6300	0011	Army/Ohio EPA Review RIR Draft CC-RVAAP-72	45	03DEC14	16JAN15		Army/Ohio EPA Review RIR Draft CC-RVAAP-72
	6310	0011	Comment Res Mtg RIR Draft CC-RVAAP-72	2	20JAN15	21JAN15		Comment Res Mtg RIR Draft CC-RVAAP-72
	6330	0011	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-72	20	22JAN15	10FEB15	i [i	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-72
		_		_				

				1		2014
Activity	CLIN	Activity	Cal	Early	Early	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
ID		Description	Days	Start	Finish	-1 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686
6340	0011	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-72	45	11FEB15	27MAR15	
6350	0011	Submit RI Report - Final - CC-RVAAP-72	0		27MAR15	_ ' <mark> </mark> '
	ial Inves					
	0011	Approved Remedial Investigation CC-RVAAP-72	0		27MAR15	5 Approved Remedial Investigation CC-RVAAP-72
0300	0011	Approved Remediai investigation CC-RVAA1-/2			2/WAKI3	Approved Remedia Investigation CC-RVAA1-72
Subtotal	0011		222	20NOV12	27MAR15	-
	'	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	332	29NO V 13	2/WAK13	
CLIN)012(C	Opt)Remedial Investigation CC-RVAAP-75				
CC-RV	AAP-75	5 (George Rd Sewage Treatment Plant)				
		tigation Work Plan				
	0012	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-75	30	29DEC13	27JAN14	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-75
6460	0012	Submit Pre-Draft RIWP To Army CC-RVAAP-75	0		27JAN14	
6465	0012	Army Review Pre-Draft RIWP CC-RVAAP-75	30	07FFR14	08MAR14	
6470	0012	Attend Comment Resolution Meeting RIWP RVAAP-75	1		10MAR14	
	1		20			➡ 1 <mark> </mark>
6475	0012	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-75	20		30MAR14	
6480	0012	Army/Ohio EPA Review Draft RIWP CC-RVAAP-75	45	31MAR14		
6485	0012	Attend Comment Resolution Mtg Drft RIWP RVAAP-75	3		19MAY14	
6490	0012	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-75	20		08JUN14	_ ' <mark> </mark> ' ' ' ' ' ' ' ' '
6495	0012	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-75	45	09JUN14	23JUL14	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-75
6500	0012	Submit RI Work Plan - Final CC-RVAAP-75	0		23JUL14	Submit RI Work Plan - Final CC-RVAAP-75
Field In	vestigat	ion				
6600	0012	Mobilize To Site CC-RVAAP-75	1	24JUL14	24JUL14	Mobilize To Site CC-RVAAP-75
	0012	Conduct Field Sampling CC-RVAAP-75	10	-	07AUG14	
6620	0012	Demobilize Off-Site CC-RVAAP-75	2.	08AUG14		
6630	0012	Conduct Lab Analysis CC-RVAAP-75	30	08AUG14		Conduct Lab Analysis CC-RVAAP-75
		·	2	-		⊣ п <mark>ина на на принежи и принежи на принеж</mark>
6640	0012	Data Review Meeting CC-RVAAP-75		U0SEP14	09SEP14	Data Review Meeting CC-RVAAP-75
		ppletion Report	20	100551	2005551	
6650	0012	Prep/Submit Field Work Compl Report CC-RVAAP-75	20	10SEP14		
6660	0012	Submit Field Work Compl Report CC-RVAAP-75	0		29SEP14	Submit Field Work Compl Report CC-RVAAP-75
	_	tigation Report				
6700	0012	Develop RI Report - Pre-Draft CC-RVAAP-75	40	30SEP14	08NOV14	Develop RI Report - Pre-Draft CC-RVAAP-75
6705	0012	Submit Pre-Draft RIR To Army CC-RVAAP-75	0		08NOV14	Submit Pre-Draft RIR To Army CC-RVAAP-75
6710	0012	Army Revw RI Report - Pre-Draft CC-RVAAP-75	30	09NOV14	08DEC14	Army Revw RI Report - Pre-Draft CC-RVAAP-75
6720	0012	Comment Res Mtg RIR Pre-Draft CC-RVAAP-75	2	09DEC14	10DEC14	
6740	0012	Revise & Submit RI Report - Draft CC-RVAAP-75	20	11DEC14		➡ ·••··································
6750	0012	Army/Ohio EPA Review RIR Draft CC-RVAAP-75	45	31DEC14	13FEB15	
6760	0012	Comment Res Mtg RIR Draft CC-RVAAP-75	2	17FEB15	18FEB15	
6780	0012	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-75	20	19FEB15	10MAR15	⊣ ₁•
					24APR15	
6790	0012	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-75	45	11WAK15		
6800	0012	Submit RI Report - Final - CC-RVAAP-75	0		24APR15	Submit RI Report - Final - CC-RVAAP-75
	ial Inves					
6850	0012	Approved Remedial Investigation CC-RVAAP-75	0		24APR15	
~	0615			205555	04:55:	
Subtotal			332	29DEC13	24APR15	
CLIN (0013(C	pt)Remedial Investigation CC-RVAAP-77				
		7 (Bldg 1037-Laundry Waste Wtr Sump)				
		tigation Work Plan				
	1	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-77	30	28JAN14	26FEB14	Dron & Cubmit Due Dueft DIWD To A may CO DVA AD 777
6905	0013	•	30	20JAN14		╡┆┋ ┼┼┼┼╢┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
6910	0013	Submit Pre-Draft RIWP To Army CC-RVAAP-77	0	003.5 : = : 1	26FEB14	
6915	0013	Army Review Pre-Draft RIWP CC-RVAAP-77	30		07APR14	⊣
6920	0013	Attend Comment Resolution Meeting CC-RVAAP-77	1	08APR14	08APR14	
6925	0013	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-77	20	09APR14	28APR14	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-77
6930	0013	Army/Ohio EPA Review Draft RIWP CC-RVAAP-77	45	29APR14	12JUN14	Army/Ohio EPA Review Draft RIWP CC-RVAAP-77
6935	0013	Attend Comment Resolution Mtg Drft RIWP RVAAP-77	3	13JUN14	17JUN14	Attend Comment Resolution Mtg Drft RIWP RVAAP-77
	•	· ·				

A	etivity	CLIN	Activity	Cal	Early	Early	20 J A S	11 O N D J F	20 MAM J	012 J A	SOND J	FMAM.	2013 I J	A S O N D J F M A N	2014 // J J A S O N	2015 ND J F M A M J J A S O N D J F M A M J J A S O N D J	2017 F M M A
	ID		Description	Days	Start	Finish	-1 1 2	3 4 5 6 7	8 9 10 11	1 12 13 1	1415161718	192021222	3242	25 26 27 28 29 30 31 32 33 3	43 <u>5</u> 3637383940	0404142434445464748495051525354555657585960616263646566	67686970
		0013	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-77	20	18JUN14	07JUL14										ubmit Final RIWP To Army/EPA CC-RVAAP-77	
		0013	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-77	45	08JUL14	21AUG14										/Ohio EPA Revw & Approve Fnl RIWP RVAAP-77	
		0013	Submit RI Work Plan - Final CC-RVAAP-77	0		21AUG14	1 1 1		1 1 1 1				1 1		Submi	mit RI Work Plan - Final CC-RVAAP-77	+ + + + + + + + + + + + + + + + + + + +
		estigati			22 1 7 7 7 1 1	22 4 7 7 7 1 4											
			Mobilize To Site CC-RVAAP-77	1		22AUG14							ii			lize To Site CC-RVAAP-77	
		0013	Conduct Field Sampling CC-RVAAP-77	10	25AUG14	08SEP14									- I I I I I I I I I I I I I I I I I I I	duct Field Sampling CC-RVAAP-77	
		0013	Demobilize Off-Site CC-RVAAP-77	20	09SEP14	10SEP14										nobilize Off-Site CC-RVAAP-77	
		0013	Conduct Lab Analysis CC-RVAAP-77	30	09SEP14	08OCT14							1 1			onduct Lab Analysis CC-RVAAP-77	
			Data Review Meeting CC-RVAAP-77	2	090C114	10OCT14			+ + + +						рат рат	Pata Review Meeting CC-RVAAP-77	
			Prep/Submit Field Work Compl Report CC-RVAAP-77	20	110CT14	30OCT14							i i			Delay (Collabert Pictal World) Collaboration and CCC DV/A AD 777	
			Submit Field Work Compl Report CC-RVAAP-77	20	1100114	300CT14										Prep/Submit Field Work Compl Report CC-RVAAP-77 Submit Field Work Compl Report CC-RVAAP-77	
			igation Report	U		300C114			 							Submit Field Work Complexeport CC-RVAA1-77	
		0013	Develop RI Report - Pre-Draft CC-RVAAP-77	40	310CT14	09DEC14				1 1 1		1 1 1 1	1 1			Develop RI Report - Pre-Draft CC-RVAAP-77	
		0013	Submit Pre-Draft RIR To Army CC-RVAAP-77	0	3130114	09DEC14							1 1			Submit Pre-Draft RIR To Army CC-RVAAP-77	
		0013	Army Revw RI Report - Pre-Draft CC-RVAAP-77	30	10DEC14	08JAN15							1 1			Army Revw RI Report - Pre-Draft CC-RVAAP-77	
		0013	Comment Res Mtg RIR Pre-Draft CC-RVAAP-77	2.	09JAN15	12JAN15							1 1			Comment Res Mtg RIR Pre-Draft CC-RVAAP-77	
		0013	Revise & Submit RI Report - Draft CC-RVAAP-77	20	13JAN15	01FEB15										Revise & Submit RI Report - Draft CC-RVAAP-77	
		0013	Army/Ohio EPA Review RIR Draft CC-RVAAP-77	45	02FEB15				1 1 1 1				1 1			Army/Ohio EPA Review RIR Draft CC-RVAAP-77	
		0013	Comment Res Mtg RIR Draft CC-RVAAP-77	2		20MAR15							1 1			Comment Res Mtg RIR Draft CC-RVAAP-77	
		0013	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-77	20		09APR15							i i			Prep&Submit Final RIR To Army/Ohio EPA RVAAP-	77
		0013	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-77	45		24MAY15							1 1			Army/Ohio EPA Revw & Apprv Final RIR RVAAI	
	7250	0013	Submit RI Report - Final - CC-RVAAP-77	0		24MAY15							ii			Submit RI Report - Final - CC-RVAAP-77	
R	emedia	l Invest	igation														
	7270	0013	Approved Remedial Investigation CC-RVAAP-77	0		24MAY15										◆Approved Remedial Investigation CC-RVAAP-77	
													1 1		1 1 1 1 1 1	↑	1 1
Su	ototal (0013		333	28JAN14	24MAY15							1 1				
CL	.IN 00)14(O	pt)Remedial Investigation CC-RVAAP-80										1 1				
C	-RVA	AP-80	(Group 2 Propellant Can Tops)										1 1				
			igation Work Plan														
			Prep & Submit Pre-Draft RIWP To Army RVAAP-80	30	27FEB14	28MAR14							1 1	Pre	p & Submit Pre-	re-Draft RIWP To Army RVAAP-80	
<i>'</i>	7310	0014	Submit Pre-Draft RIWP To Army RVAAP-80	0		28MAR14								Su	bmit Pre-Draft	ft RIWP To Army RVAAP-80	
	7315 (0014	Army Review Pre-Draft RIWP RVAAP-80	30	08APR14	07MAY14							1 1		Army Review Pr	Pre-Draft RIWP RVAAP-80	
	7320	0014	Attend Comment Resolution Meeting RIWP RVAAP-80	1	08MAY14	08MAY14							1 1		Attend Commen	ent Resolution Meeting RIWP RVAAP-80	
	7325	0014	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-80	20	09MAY14				1 1 1 1 1 1 1 1	1 1 i 1 1 i		1 1 1 1				it Draft RIWP To Army/Ohio EPA RVAAP-80	
		0014	Army/Ohio EPA Review Draft RIWP RVAAP-80	45	29MAY14								1 1		1 1 1 1 1 1	hio EPA Review Draft RIWP RVAAP-80	
		0014	Attend Comment Resolution Mtg Drft RIWP RVAAP-80	3	14JUL14	16JUL14							1 1			Comment Resolution Mtg Drft RIWP RVAAP-80	
		0014	Prep & Submit Final RIWP To Army/EPA RVAAP-80	20	17JUL14	05AUG14							1 1			z Submit Final RIWP To Army/EPA RVAAP-80	
		0014	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-80	45	06AUG14											my /Ohio EPA Revw & Approve Fnl RIWP RVAAP-80	
		0014	Submit RI Work Plan - Final RVAAP-80	0		19SEP14				1 1 1			1 1		Sub	ubmit RI Work Plan - Final RVAAP-80	
		estigati		1	22000014	22000014							1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		0014	Mobilize To Site CC-RVAAP-80	10	22SEP14	22SEP14							1 1			obilize To Site CC-RVAAP-80	
		0014	Conduct Field Sampling CC-RVAAP-80	10		06OCT14									· · · · · · · · · · · · · · · · · · ·	onduct Field Sampling CC-RVAAP-80	
		0014	Demobilize Off-Site CC-RVAAP-80	20		08OCT14							1 1			emobilize Off-Site CC-RVAAP-80	
		0014	Conduct Lab Analysis CC-RVAAP-80 Data Pavious Macting CC RVAAP 80	30		05NOV14							1 1			Conduct Lab Analysis CC-RVAAP-80	
		0014	Data Review Meeting CC-RVAAP-80	2	00110 V 14	07NOV14							1 1		<u> </u>	Data Review Meeting CC-RVAAP-80	
		<i>rk Com</i> 0014	Pran/Submit Field Work Compl Peport CC PVA AP 80	20	08NOV14	27NOV14							1 1			Pron Cubmit Field Work Compl Depart CC DVA AD 80	
			Prep/Submit Field Work Compl Report CC-RVAAP-80	20	00110 V 14								1 1			Prep/Submit Field Work Compl Report CC-RVAAP-80	
	7510 (Submit Field Work Compl Report CC-RVAAP-80	U		27NOV14			1 1 1	1 1 1			1 1			Submit Field Work Compl Report CC-RVAAP-80	
			igation Report Develop RI Report - Pre-Draft CC-RVAAP-80	40	28NOV14	06JAN15							1 1			Develop RI Report - Pro Proft CC DVAAD 80	
		0014 0014	Submit Pre-Draft RIR To Army CC-RVAAP-80	0	20110 1 14	06JAN15							1 1			Develop RI Report - Pre-Draft CC-RVAAP-80 Submit Pre-Draft RIR To Army CC-RVAAP-80	
		0014	Army Revw RI Report - Pre-Draft CC-RVAAP-80	30	07JAN15								1 1			Army Revw RI Report - Pre-Draft CC-RVAAP-80	
	550	UU17	Anny Roth Report The Digit Co-RVAA1-00		0.371113	021 11013			1 1 1 1			1 1 1 1	1 1			Anny Net with Report - 110-Digit CC-RVAM 700	

		I			ı	
Activit	y CLIN	Activity	Cal	Early	Early	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
ID		Description	Days	Start	Finish	-1 1 2 3 4 5 6 7 8 9 1011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465666768697
7560	0014	Comment Res Mtg RIR Pre-Draft CC-RVAAP-80	2	06FEB15	09FEB15	Comment Res Mtg RIR Pre-Draft CC-RVAAP-80
7580	0014	Revise & Submit RI Report - Draft CC-RVAAP-80	20	10FEB15	01MAR15	Revise & Submit RI Report - Draft CC-RVAAP-80
7590	0014	Army/Ohio EPA Review RIR Draft CC-RVAAP-80	45	02MAR15	15APR15	Army/Ohio EPA Review RIR Draft CC-RVAAP-80
7600	0014	Comment Res Mtg RIR Draft CC-RVAAP-80	2	16APR15	17APR15	Comment Res Mtg RIR Draft CC-RVAAP-80
7620	0014	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-80	20		07MAY15	
7630	0014	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-80	45		21JUN15	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-80
7640	0014	Submit RI Report - Final - CC-RVAAP-80	0		21JUN15	Submit RI Report - Final - CC-RVAAP-80
	lial Inves	-				
7650		Approved Remedial Investigation CC-RVAAP-80	0		21JUN15	◆ Approved Remedial Investigation CC-RVAAP-80
						01AUG15
Subtotal	0014		331	27FEB14	21JUN15	
CLIN	0015(0	pt)Remedial Investigation CC-RVAAP-83				
		3 (Former Bldgs 1031 & 1039)				
		tigation Work Plan	20	2015151	07 + 77	
7705	0015	Prep & Submit Pre-Draft RIWP To Army RVAAP-83	30	29MAR14		Prep & Submit Pre-Draft RIWP To Army RVAAP-83
7710	0015	Submit Pre-Draft RIWP To Army RVAAP-83	0		27APR14	Submit Pre-Draft RIWP To Army RVAAP-83
7715	0015	Army Review Pre-Draft RIWP RVAAP-83	30		06JUN14	Army Review Pre-Draft RIWP RVAAP-83
7720	0015	Attend Comment Resolution Meeting RIWP RVAAP-83	1	09JUN14		Attend Comment Resolution Meeting RIWP RVAAP-83
7725	0015	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-83	10	10JUN14		Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP+83
7730	0015	Army/Ohio EPA Review Draft RIWP RVAAP-83	45		03AUG14	Army/Ohio EPA Review Draft RIWP RVAAP-83
7735	0015	Attend Comment Resolution Mtg Drft RIWP RVAAP-83	3	04AUG14	06AUG14	Attend Comment Resolution Mtg Drft RIWP RVAAP-83
7740	0015	Prep & Submit Final RIWP To Army/EPA RVAAP-83	20	07AUG14	26AUG14	Prep & Submit Final RIWP To Army/EPA RVAAP-83
7745	0015	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-93	45	27AUG14	10OCT14	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-93
7750	0015	Submit RI Work Plan - Final RVAAP-83	0		10OCT14	Submit RI Work Plan - Final RVAAP-83
Field I	nvestigat	ion				
7780	0015	Mobilize To Site CC-RVAAP-83	1	14OCT14	14OCT14	Mobilize To Site CC-RVAAP-83
7785	0015	Conduct Field Sampling CC-RVAAP-83	10	<u> </u>	28OCT14	Conduct Field Sampling CC-RVAAP-83
7790	0015	Demobilize Off-Site CC-RVAAP-83	2	29OCT14		Demobilize Off-Site CC-RVAAP-83
7795	0015	Conduct Lab Analysis CC-RVAAP-83	30		27NOV14	Conduct Lab Analysis CC-RVAAP-83
7800		Data Review Meeting CC-RVAAP-83	2		01DEC14	Data Review Meeting CC-RVAAP-83
		pletion Report				
7805	0015	Prep/Submit Field Work Compl Report CC-RVAAP-83	20	02DEC14	21DEC14	Prep/Submit Field Work Compl Report CC-RVAAP-83
7810		Submit Field Work Compl Report CC-RVAAP-83	0		21DEC14	Submit Field Work Compl Report CC-RVAAP-83
		tigation Report				
7840	0015	Develop RI Report - Pre-Draft CC-RVAAP-83	40	22DEC14	30JAN15	Develop RI Report - Pre-Draft CC-RVAAP-83
7843	0015	Submit Pre-Draft RIR To Army CC-RVAAP-83	0		30JAN15	Submit Pre-Draft RIR To Army CC-RVAAP-83
7845	0015	Army Revw Pre-Draft RI Report CC-RVAAP-83	30	31IAN15	01MAR15	⊣ 1∎1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7850	0015	Comment Res Mtg Pre-Draft RIR CC-RVAAP-83	2		03MAR15	-
7860	0015	Revise & Submit Draft RI Report CC-RVAAP-83	20		23MAR15	
7865	0015	Army/Ohio EPA Review Draft RI Report CC-RVAAP-83	45		07MAY15	
		-	2		11MAY15	- <mark> </mark>
7870	0015	Comment Res Mtg Draft RI Report CC-RVAAP-83 Prop & Submit Finel PIP To Army/Obje FDA DVA AD 83	20			
7880	0015	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-83	20		31MAY15	- 1 <mark> </mark>
7885	0015	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-83	45	01JUN15		Army/Ohio EPA Revw & Apprv Final RIR RVAAP-83
7890	0015	Submit Final RI Report CC-RVAAP-83	U		15JUL15	Submit Final RI Report CC-RVAAP-83
	lial Inves		0		15777 15	
7895	0015	Approved Remedial Investigation CC-RVAAP-83	0		15JUL15	Approved Remedial Investigation CC-RVAAP-83
C - 1 - 4 - 4 - 1	0015		226	201/4 D 1 4	151111 15	_
Subtotal		TO DA L	326	Z9MAK14	15JUL15	
CLIN	υυ16 N	TC RA Load Lines 1,2,3,4,13 - 73&79				
Engr E	Evaluati	on/Cost Analysis (EE/CA) CLIN 16				
		aluation/Cost Analysis (EE/CA)				
7905	0016	Prep & Submit PreDraft EE/CA To Army RVAAP-73&79	40	06FEB12*	16MAR12	Prep & Submit PreDraft EE/CA To Army RVAAP-73&79
7910		Submit Pre-Draft EE/CA To Army CC-RVAAP-73&79	0		16MAR12	
		· · · · · · · · · · · · · · · · · · ·		1	_	

	Activity	CLIN	Activity	Cal	Early	Early	
	ID	0015	Description	Days	Start		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
		0016	Army Review Pre-Draft EE/CA CC-RVAAP-73&79	30	27MAR12	25APR12	Army Review Pre-Draft EE/CA CC-RVAAP-73&79
	7920	0016	Attend Comment Resolution MTG EE/CA RVAAP-73&79	1 20		26APR12	Attend Comment Resolution MTG EE/CA RVAAP-73&79
	7925	0016	Prep&Submit Draft EE/CA To Army/Ohio EPA -73&79		27APR12		Prep&Submit Draft EE/CA To Army/Ohio EPA -73&79
		0016	Army/Ohio EPA Review Draft EE/CA RVAAP-73&79	45	27MAY12	10JUL12	Army/Ohio EPA Review Draft EE/CA RVAAP-73&79
	7935	0016	Attend Comment Resolution Mtg Drft EE/CA -73&79	3	11JUL12	13JUL12	Attend Comment Resolution Mtg Drft EE/CA -73&79
	7940	0016	Prep & Submit Final EE/CA To Army/EPA -73&79	30	14JUL12	12AUG12	Prep & Submit Final EE/CA To Army/EPA -73&79
	7945	0016	Army /Ohio EPA Revw & Approve Fnl EE/CA - 73&79		13AUG12	26SEP12	Army /Ohio EPA Revw & Approve Fnl EE/CA - 73&79
	7950	0016	Submit EE/CA - Final CC-RVAAP-73&79	0		26SEP12	Submit EE/CA - Final CC-RVAAP-73&79
			andum CLIN 16				
		Viemorai				1717710	
		0016	Develop Pre-Draft Action Memo CC-RVAAP-73&79	30	17MAR12		Develop Pre-Draft Action Memo CC-RVAAP-73&79
		0016	Submit Pre-Draft AM To Army CC-RVAAP-73&79	0	2417742	15APR12	Submit Pre-Draft AM To Army CC-RVAAP-73&79
	7985	0016	Army Review Pre-Draft AM CC-RVAAP-73&79	30	26APR12		Army Review Pre-Draft AM CC-RVAAP-73&79
	7990	0016	Attend Comment Resolution Mtg Act Memo -73&79	1	29MAY12		Attend Comment Resolution Mtg Act Memo -73&79
	7995	0016	Prep&Submit Draft AM To Army/Ohio EPA -73&79	10	30MAY12		Prep&Submit Draft AM To Army/Ohio EPA -73&79
		0016	Army/Ohio EPA Review Draft AM RVAAP-73&79	45	09JUN12	23JUL12	Army/Ohio EPA Review Draft AM RVAAP-73&79
	8005	0016	Attend Comment Resolution Mtg Draft AM 73&79	3	24JUL12	26JUL12	Attend Comment Resolution Mtg Draft AM 73&79
	8010	0016	Prep & Submit Final AM To Army/EPA RVAAP-73&79	15	27JUL12	16AUG12	Prep & Submit Final AM To Army/EPA RVAAP-73&79
	8015	0016	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-73&79	45	17AUG12	30SEP12	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-73&79
	8035	0016	Submit Action Memo Final Act Memo CC-RVAAP-73&79	0		30SEP12	Submit Action Memo Final Act Memo CC-RVAAP-73&79
			1 Work Plan	20	16 A DD 12	15MAV12	
		0016	Develop Pre-Draft RAWP CC-RVAAP-73&79	30	16APR12		Develop Pre-Draft RAWP CC-RVAAP-73&79
		0016	Submit Pre-Draft RAWP To Army CC-RVAAP-73&79	0	26MAV12	15MAY12	Submit Pre-Draft RAWP To Army CC-RVAAP 73&79
		0016	Army Review Pre-Draft RAWP CC-RVAAP-73&79	30	26MAY12		Army Review Pre-Draft RAWP CC-RVAAP-73&79
	8055	0016	Attend Comment Resolution RAWP CC-RVAAP-73&79	10	25JUN12 26JUN12	25JUN12	Attend Comment Resolution RAWP CC-RVAAP-73&79
	8060 8065	0016	Prep&Submit Draft RAWP To Army/Ohio EPA -73&79 Army/Ohio EPA Review Draft RAWP RVAAP-73&79	10 45		05JUL12 19AUG12	Prep&Submit Draft RAWP To Army/Ohio EPA -73&79
		0016	Attend Comment Resolution Mtg Draft RAWP 73&79			22AUG12	Army/Ohio EPA Review Draft RAWP RVAAP-73&79
		0016	Prep & Submit Final RAWP To Army/EPA RVAAP-73&79			09SEP12	Attend Comment Resolution Mtg Draft RAWP 73&79 Prep & Submit Final RAWP To Army/EPA RVAAP-73&79
		0016	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP73&79	16		24OCT12	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP73&79
			Submit Final RAWP CC-RVAAP-73&79	0	103L112	24OCT12	Submit Final RAWP CC-RVAAP-73&79
	•			U		2400112	Subject Fills (1) Fills
Ш			Action CC-RVAAP-73				
		Action	T.	1.4	10CED12	02CED10	
		0016	Request For Sites Access CC-RVAAP-73 & 79 Mobilize To Site CC RVAAP 73	14	10SEP12		Request For Sites Access CC-RVAAP-73 & 79
		0016	Mobilize To Site CC-RVAAP-73	1 20	25OCT12		Mobilize To Site CC-RVAAP-73
		0016	Removal Action CC-RVAAP-73	20	26OCT12		-
		0016	Confirmation Sampling CC-RVAAP-73 Demobilization CC-RVAAP-73	20	15NOV12 05DEC12		Confirmation Sampling CC-RVAAP-73 Demobilization CC-RVAAP-73
		0016	Conduct Lab Analysis CC-RVAAP-73	22	05DEC12		Conduct Lab Analysis CC-RVAAP-73
		0016	Data Review Meeting CC-RVAAP-73	1	08JAN13		Data Review Meeting CC-RVAAP-73
				1	OOJAINIS	OOJAMIJ	Data Keview Meeting CC-K V AAT 7/3
			Action CC-RVAAP-79				
		Action	T. C.	1	07DEC12	07DEC12	
		0016	Mobilize To Sites CC-RVAAP- 79	1 20	07DEC12		Mobilize To Sites CC-RVAAP-79
		0016	Removal Action CC-RVAAP-79 Confirmation Sampling CC RVAAP 70	20	08DEC12		Removal Action CC-RVAAP-79
		0016	Confirmation Sampling CC-RVAAP-79	20		16JAN13	Confirmation Sampling CC-RVAAP-79
		0016	Demobilization CC-RVAAP-79	20		18JAN13	Demobilization CC-RVAAP-79
		0016	Conduct Lab Analysis CC-RVAAP-79	30	17JAN13	15FEB13	Conduct Lab Analysis CC-RVAAP-79
		0016	Data Review Meeting CC-RVAAP-79	1	19FEB13	1915013	Data Review Meeting CC-RVAAP-79
			mplete Report CLIN 16				
			plete Report	35	205	243.5	
			Develop Pre-Draft RCR CC-RVAAP-73&79	30	20FEB13		Develop Pre-Draft RCR CC-RVAAP-73&79
	8170	0016	Submit Pre-Draft RCR To Army CC-RVAAP-73&79	0		21MAR13	Submit Pre-Draft RCR To Army CC-RVAAP-73&79
Ш							

Activity	CLIN	Activity	Cal	Early	Early	2011 2012 2013 2014 2015 2016 2017 4 GOVD X DY A GOVD
ID ID		Description	Days	Start	Finish	ASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMA
8175	0016	Army Review Pre-Draft RCR CC-RVAAP-73&79	30	01APR13	30APR13	1 2 3 4 5 6 7 8 9 1011121314151617181920212223242526272829305152535455565758596061626364656667686970 Army Review Pre-Draft RCR CC-RVAAP-73&79
8180	0016	Attend Comment Resolution RCR CC-RVAAP -73&79	1	01MAY13		Attend Comment Resolution RCR CC-RVAAP 73&79
8185	0016	Prep&Submit Draft RCR To Army/Ohio EPA -73&79	Q	02MAY13		Prep&Submit Draft RCR To Army/Ohio EPA -73&79
8190	0016	Army/Ohio EPA Review Draft RCR RVAAP-73&79	45			
	10000	·	2			Army/Ohio EPA Review Draft/RCR RVAAP-73&79
8195	0016	Attend Comment Resolution Mtg Draft RCR 73&79	3	24JUN13	26JUN13	Attend Comment Resolution Mtg Draft RCR 73&79
8200	0016	Prep & Submit Final RCR To Army/EPA RVAAP-73&79	20	27JUN13	16JUL13	Prep & Submit Final RCR To Army/EPA RVAAP-73&79
8205	0016	Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP73&79	45	17JUL13	30AUG13	Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP73&79
	0016	Submit Final RCR CC-RVAAP-73&79	0		30AUG13	Submit Final RCR CC-RVAAP-73&79
Non-Ti	me Crit	ical Removal Action CLIN 16				
Non-Tin	me-Critic	al Removal Action				
73-8400	0016	NTCRA Load Lines 1,2,3,4,12 For 73 & 79 CLIN16	0		30AUG13	♦NTCRA Load Lines 1,2,3,4,12 For 73 & 79 CLIN16
						30AUG13
Subtotal	0016		397	06FEB12	30AUG13	
CLIN 0	0017 N	TC RA DLA Ore Storage Site - 79				
		(DLA Ore Storage Site-Main Ore Yard)				
		aluation/Cost Analysis (EE/CA)				
	0017		25	06FEB12*	01MAD12	Dron & Submid Dro Droft EE CA To Almy CC DV A D 70
		Prep & Submit PreDraft EE/CA To Army CC-RVAAP-79		UUI EDIZ*		Prep & Submit PreDraft EE/CA To Army CC-RVAAP-79
	0017	Submit Pre-Draft EE/CA To Army CC-RVAAP-79	0	10MAD 10	01MAR12	Submit Pre-Draft EE/CA To Army CC-RVAAP-79
	0017	Army Review Pre-Draft EE/CA CC-RVAAP-79	30		10APR12	Army Review Pre-Draft EE/CA CC-RVAAP-79
	0017	Attend Comment Resolution MTG EE/CA CC-RVAAP-79	1	11APR12	11APR12	Attend Comment Resolution MTG EE/CA CC-RVAAP-79
	0017	Prep&Submit Draft EE/CA To Army/Ohio EPA -79	16			Prep&Submit Draft EE/CA To Army/Ohio EPA -79
	0017	Army/Ohio EPA Review Draft EE/CA CC-RVAAP-79	45	28APR12		Army/Ohio EPA Review Draft EE/CA CC-RVAAP-79
8285	0017	Attend Comment Resolution Mtg Drft EE/CA -79	3	12JUN12	14JUN12	Attend Comment Resolution Mtg Drft EE/CA -79
8290	0017	Prep & Submit Final EE/CA To Army/EPA -79	16	15JUN12	30JUN12	Prep & Submit Final EE/CA To Army/EPA -79
8295	0017	Army /Ohio EPA Revw & Approve Fnl EE/CA - 79	45	01JUL12	14AUG12	Army /Ohio EPA Revw & Approve Fnl EE/CA - 79
8300	0017	Submit EE/CA - Final CC-RVAAP-79	0		14AUG12	Submit EE/CA - Final CC-RVAAP-79
Action	Memoral	ndum				
8305	0017	Develop Pre-Draft Action Memo CC-RVAAP-79	25	15AUG12	08SEP12	Develop Pre-Draft Action Memo CC-RVAAP-79
8310	0017	Submit Pre-Draft Action Memo To Army CC-RVAAP-79	0		08SEP12	Submit Pre-Draft Action Memo To Army CC-RVAAP-79
8315	0017	Army Review Pre-Draft Action Memo CC-RVAAP-79	30	19SEP12	18OCT12	Army Review Pre-Draft Action Memo CC-RVAAP-79
	0017	Attend Comment Resolution Mtg Action Memo -79	1	19OCT12	19OCT12	Attend Comment Resolution Mtg Action Memo -79
	0017	Prep&Submit Draft AM To Army/Ohio EPA -79	15	20OCT12		Prep&Submit Draft AM To Army/Ohio EPA -79
	0017	Army/Ohio EPA Review Draft Action Memo RVAAP-79	45	04NOV12		Army/Ohio EPA Review Draft Action Memo RVAAP-79
	0017	Attend Comment Resolution Mtg Draft AM 79	3			Attend Comment Resolution Mtg Draft AM 79
	0017	Prep & Submit Final AM To Army/EPA CC-RVAAP-79	17			Prep & Submit Final AM To Army/EPA CC-RVAAP-79
			17			Ingradiana na katang Tiping at tanggaran katang
	0017	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-79	45	08JAN13	21FEB13	Army/Ohio EPA Revw & Approve Fnl AM RVAAP-79
	0017	Submit Final Act Memo CC-RVAAP-79	0		21FEB13	Submit Final Act Memo CC-RVAAP-79
		Nork Plan	25	22EED12	10MAD12	D. W.
	0017	Develop RAWP Pre-Draft CC-RVAAP-79	25	22FEB13	18MAR13	Develop RAWP Pre-Draft CC-RVAAP-79
	0017	Submit Pre-Draft RAWP To Army CC-RVAAP-79	0		18MAR13	Submit Pre-Draft RAWP To Army CC-RVAAP 79
	0017	Army Review Pre-Draft RAWP CC-RVAAP-79	30	29MAR13		Army Review Pre-Draft RAWP CC-RVAAP-79
	0017	Attend Comment Resolution RAWP CC-RVAAP -79	1		29APR13	Attend Comment Resolution RAWP CC+RVAAP - 79
8375	0017	Prep&Submit Draft RAWP To Army/Ohio EPA -79	17		16MAY13	Prep&Submit Draft RAWP To Army/Ohio EPA -79
8380	0017	Army/Ohio EPA Review Draft RAWP CC-RVAAP-79	45	17MAY13	30JUN13	Army/Ohio EPA Review Draft RAWP CC-RVAAP-79
8385	0017	Attend Comment Resolution Mtg Draft CC-RAWP 79	3	01JUL13	03JUL13	Attend Comment Resolution Mtg Draft CC-RAWP 79
8390	0017	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-79	17	04JUL13	20JUL13	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-79
8395	0017	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-79	45	21JUL13	03SEP13	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-79
8400	0017	Submit Final RAWP CC-RVAAP-79	0		03SEP13	Submit Final RAWP CC-RVAAP-79
	al Action	1				
8405		Request For Site Access CC-RVAAP-79	14	21JUL13	03AUG13	Request For Site Access CC-RVAAP-79
	0017	Mobilize To Site CC-RVAAP-79	1	04SEP13	04SEP13	Mobilize To Site CC-RVAAP-79
	0017	Removal Action CC-RVAAP-79	20	05SEP13	24SEP13	Removal Action CC-RVAAP-79
	0017	Confirmation Sampling CC-RVAAP-79	20		140CT13	
0420	0017	Commination Sampling CC-KVAAF-19		23SEF13	1400113	Confirmation Sampling CC-RVAAP-79

Activity (CLIN	Activity	Cal	Early	Early	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
ID I		Description	Days	Start	Finish	J A S O N D J F M A M J J A S
8425 00)17	Conduct Lab Analysis CC-RVAAP-79	30	15OCT13	13NOV13	Conduct Lab Analysis CC-RVAAP-79
8430 00)17	Data Review Meeting CC-RVAAP-79	1	14NOV13		Data Review Meeting CC-RVAAP-79
8435 00)17	Demobilization CC-RVAAP-79	2	15NOV13		Demobilization CC-RVAAP-79
		plete Report				
8450 00		Develop Pre-Draft RCR CC-RVAAP-79	30	19NOV13	18DEC13	Develop Pre-Draft RCR CC-RVAAP-79
8455 00		Submit Pre-Draft RCR To Army CC-RVAAP-79	0	1,1,0,113	18DEC13	Submit Pre-Draft RCR To Army CC-RVAAP-79
8460 00		Army Review Pre-Draft RCR CC-RVAAP-79	30	29DEC13	27JAN14	Army Review Pre-Draft RCR CC-RVAAP-79
8465 00		Attend Comment Resolution RCR CC-RVAAP -79	1		28JAN14	Attend Comment Resolution RCR CC-RVAAP -79
8470 00		Prep&Submit Draft RCR To Army/Ohio EPA RVAAP-79	10		07FEB14	-
		Army/Ohio EPA Review Draft RCR CC-RVAAP-79	45		24MAR14	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP-79
			2			Army/Ohio EPA Review Draft RCR CC-RVAAP-79
8480 00		Attend Comment Resolution Mtg Draft RCR RVAAP-79	17	25MAR14		Attend Comment Resolution Mtg Draft RCR RVAAP-79
8485 00		Prep & Submit Final RCR To Army/EPA CC-RVAAP-79	17		13APR14	Prep & Submit Final RCR To Army/EPA CC-RVAAP-79
8490 00		Army /Ohio EPA Revw & Apprve Fnl RCR CC-RVAAP-79	45	14APR14		Army /Ohio EPA Revw & Apprve Fnl RCR CC-RVAAP-79
0.70 00)17	Submit Final RCR CC-RVAAP-79	0		28MAY14	Submit Final RCR CC-RVAAP-79
		al Removal Action				
8500 00)17	Achieve NTCRA Main Ore Storage CC-RVAAP-79	0		28MAY14	Achieve NTCRA Main Ore Storage CC-RVAAP-79
9.1.	1.7			0.5555.5	201// 1777	30MAY14
Subtotal 00			581	06FEB12	28MAY14	
CLIN 001	18 N	TC RA 73,74,78,79 (Remaining Sites)				
Engr Eva	I/Cos	t Analysis (EE/CA) CLIN 18				
		aluation/Cost Analysis (EE/CA)				
8555 00		Prep & Submit PreDraft EE/CA To Army CLIN 18	30	22FEB12*	22MAR12	Prep & Submit PreDraft EE/CA To Army CLIN 18
8560 00		Submit Pre-Draft EE/CA To Army CLIN 18	0		22MAR12	Submit Pre-Draft EE/CA To Army CLIN 18
8565 00		Army Review Pre-Draft EE/CA CLIN 18	30	02APR12		Army Review Pre-Draft EE/CA CLIN 18
8570 00		Attend Comment Resolution MTG EE/CA CLIN 18	1	02MAY12		Attend Comment Resolution MTG EE/CA CLIN 18
8575 00		Prep&Submit Draft EE/CA To Army/Ohio EPA CLIN 18	20	02MAY12		Prep&Submit Draft EE/CA To Army/Ohio EPA CLIN 18
8580 00		-	45	23MAY12		
		Army/Ohio EPA Review Draft EE/CA CLIN 18 Attend Comment Possibility Mtg Drft EE/CA CLIN 18	2			Army/Ohio EPA Review Draft EE/CA CLIN 18
8585 00		Attend Comment Resolution Mtg Drft EE/CA CLIN 18	30	09JUL12	11JUL12	Attend Comment Resolution Mtg Drft EE/CA CLIN 18
8590 00		Prep & Submit Final EE/CA To Army/EPA CLIN 18	20	12JUL12	31JUL12	Prep & Submit Final EE/CA To Army/EPA CLIN 18
8595 00		Army /Ohio EPA Revw & Approve Fnl EE/CA CLIN 18	45	01AUG12		Army /Ohio EPA Revw & Approve Ful EE/CA CLIN 18
		Submit EE/CA - Final CLIN 18	U		14SEP12	Submit EE/CA - Final CLIN 18
Action Me	emor	andum CLIN 18				
Action Me						
8610 00)18	Develop Pre-Draft Action Memo CLIN 18	30	15SEP12	14OCT12	Develop Pre-Draft Action Memo CLIN 18
8615 00)18	Submit Pre-Draft Action Memo To Army CLIN 18	0		14OCT12	Submit Pre-Draft Action Memo To Army CLIN 18
8620 00)18	Army Review Pre-Draft Action Memo CLIN 18	30	25OCT12	23NOV12	Army Review Pre-Draft Action Memo CLIN 18
8625 00)18	Attend Comment Resolution Mtg Action Memo CLIN18	1	26NOV12	26NOV12	Attend Comment Resolution Mtg Action Memo CLIN18
8630 00)18	Prep&Submit Draft AM To Army/Ohio EPA CLIN 18	20	27NOV12	16DEC12	Prep&Submit Draft AM To Army/Ohio EPA CLIN 18
8635 00)18	Army/Ohio EPA Review Draft Action Memo CLIN 18	45	17DEC12	30JAN13	Army/Ohio EPA Review Draft Action Memo CLIN 18
8640 00)18	Attend Comment Resolution Mtg Draft AM CLIN 18	3	31JAN13	04FEB13	Attend Comment Resolution Mtg Draft AM CLIN 18
8645 00)18	Prep & Submit Final AM To Army/EPA CLIN 18	20	05FEB13	24FEB13	Prep & Submit Final AM To Army/EPA CLIN 18
8650 00		Army /Ohio EPA Revw & Approve Fnl AM CLIN 18	45	25FEB13	10APR13	Army /Ohio EPA Revw & Approve Fnl AM CLIN 18
		Submit Final Action Memo CLIN 18	0		10APR13	Submit Final Action Memo CLIN 18
		on Work Plan CLIN 18				
		Nork Plan Develop PAWP Pre Droft CLIN 18	20	11 A DD 12	10MAV12	Doyolon DAWD Des Ducts CUIN 19
)18	Develop RAWP Pre-Draft CLIN 18	30	11APR13		Develop RAWP Pre-Draft CLIN 18
8665 00		Submit Pre-Draft RAWP To Army CLIN 18	0	013443710	10MAY13	Submit Pre-Draft RAWP To Army CLIN 18
8670 00		Army Review Prelim RAWP CLIN 18	30	21MAY13		Army Review Prelim RAWP CLIN 18
8675 00		Attend Comment Resolution RAWP CLIN 18	1		20JUN13	Attend Comment Resolution RAWP CLIN 18
8680 00		Prep&Submit Draft RAWP To Army/Ohio EPA CLIN 18	20	21JUN13	10JUL13	Prep&Submit Draft RAWP To Army/Ohio EPA CLIN 18
8685 00		Army/Ohio EPA Review Draft RAWP CLIN 18	45		24AUG13	Army/Ohio EPA Review Draft RAWP CLIN 18
8690 00)18	Attend Comment Resolution Mtg Draft CLIN 18	3	26AUG13	28AUG13	Attend Comment Resolution Mtg Draft CLIN 18

10 10 10 10 10 10 10 10		Activity	CLIN	Activity	Cal	Early	Early	2011 2012 2013 2014 2015 2016 2017
\$950 \$150 Page A, Alland Fand RARDYTTO And ppSPA ALIAN IS \$0. (1987) \$1.		`	022.	·				JASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAM
SOUTH Control Agency Tells (Agency Tell (ARVEC) Control Agency Tells (ARVEC) Control	T	8695	0018	_	-			
Sec.		8700	0018		45			_ ' <mark> </mark> '
Registral Park Size Access (THV II)	Ш	8705	0018	Submit Final RAWP CLIN 18	0		01NOV13	or <mark>t</mark> er en la recentación de la contractiva del contractiva della
Regist For Size Access (TFV 18			moval	Action For CC-RVAAP-73				
277 917 Royal to Publis As Associated Part								
\$757 0018 Malika et P. Sini C. CRYAAP73 3 008/071 806/					14	18SEP13	01OCT13	Request For Site Access CLIN 18
\$750 1018 Removal Action CENTALPTS 3 500071 Section Senging CENTALPTS Section Senting Se				_	1			
1973 0018 Confirmation Sampling CC-RVAAP-73 2 20 20 20 20 20 20 20			0018	Removal Action CC-RVAAP-73	20			ou <mark>l</mark> contribution of the
1975 1976 Content Lab Analysis CCRYAAP73 1 1 1 1 1 1 1 1 1	Ш	8735	0018	Confirmation Sampling CC-RVAAP-73	20			
No.		8740	0018	<u> </u>	30	15DEC13	13JAN14	
No. Proceedings Process Proc		8745	0018	Data Review Meeting CC-RVAAP-73	1	14JAN14	14JAN14	
### State District Control Co		8750	0018	Demobilization CC-RVAAP-73	1	15JAN14	15JAN14	Demobilization CC-RVAAP-73
Removal Action CCRVAAP-74		ITC Re	moval	Action For CC-RVAAP-74				
\$750 003 Modellar To Sile CC4VAAP71 1 160AS1 100AS1								
Section Sect					1	16JAN14	16JAN14	Mobilize To Site CC-RVAAP-74
ST 10 Confirmation Sampling (CCRYAAP 74 20 OFFIRE 25TRIBLE			0018	Removal Action CC-RVAAP-74	20			Removal Action CC-RVAAP-74
S77 ORIS Conduct Lab Analysis CC-RVAAP-74 1 29MAR14 29MAR14 388 ORIS Demokritation CC-RVAAP-74 1 29MAR14 39MAR14 39MAR1					20			
SP 00.15 Date Review Meeting CC-RYAAP-74 1 SMARIF SMARIF Dembification CC-RYAAP-74 1 SMARIF Dembification CC-RYAAP-73 2 DEMBIFICATION CC-RYAAP-73 DEMBIFICATION CC-RYAAP-73 DEMBIFICATION CC-RYAAP-73 DEMBIFICATION CREATION CC-RYAAP-73 DEMBIFICATION CREATION CC-RYAAP-73 DEMBIFICATION CREATION C		8775	0018	1 2	30			
Removal Action For GC-RVAAP-78 1 01APR14 01APR14 01APR14		8780	0018	-	1	28MAR14	28MAR14	
Section Sec		8785	0018	Demobilization CC-RVAAP-74	1	31MAR14	31MAR14	Demobilization CC-RVAAP-74
No.	1	NTC Re	moval	Action For CC-RVAAP-78				
Removal Action CC-RVAAP-78		Remova	l Action					
Section Confirmation Sampling CC-RVAAP-78 20 ZARRIA IMAYIA Section Confirmation Sampling CC-RVAAP-78 30 ZARRIA IMAYIA Section Confirmation Sampling CC-RVAAP-78 30 ZARRIA IMAYIA Section Confirmation Cardia Analysis CC RVAAP-78 30 ZARRIA IMAYIA Section Cardia C					1	01APR14	01APR14	Mobilize To Site CC-RVAAP-78
Section Conduct Lab Analysis CC RVAAP-78		8795	0018	Removal Action CC-RVAAP-78	20	02APR14	21APR14	Removal Action CC-RVAAP-78
Self Old Data Review Meeting CC-RVAAP-78 1 11/IN14 11		8800	0018	Confirmation Sampling CC-RVAAP-78	20	22APR14	11MAY14	Confirmation Sampling CC-RVAAP-78
Section Proceedings Section Procedure Procedure Process Proces		8805	0018	Conduct Lab Analysis CC-RVAAP-78	30	12MAY14	10JUN14	Conduct Lab Analysis CC-RVAAP-78
NTC Removal Action For CC-RVAAP-79 Removal Action 820 0018 Mobilize To Site CC-RVAAP-79 821 0018 Confirmation Sampling CC RVAAP-79 825 0018 Confirmation Sampling CC RVAAP-79 826 0018 Confirmation Sampling CC RVAAP-79 827 0018 Confirmation Sampling CC RVAAP-79 828 0018 Confirmation Sampling CC RVAAP-79 829 0018 Confirmation Sampling CC RVAAP-79 820 0018 Confirmation CC-RVAAP-79 821 0018 Confirmation CC-RVAAP-79 822 0018 Confirmation CC-RVAAP-79 823 0018 Demobilization CC-RVAAP-79 824 0018 Demobilization CC-RVAAP-79 825 0018 Demobilization CC-RVAAP-79 826 0018 Develop Pre-Draft RCR CLIN 18 827 0018 Army Review Per-Draft RCR CLIN 18 827 0018 Army Review Per-Draft RCR CLIN 18 828 0018 Army Review Per-Draft RCR CLIN 18 828 0018 Army Review Per-Draft RCR CLIN 18 828 0018 Army Review Draft RCR CLIN 18 829 0018 Army Review Draft RCR CLIN 18 830 0018 Army Review Draft RCR CLIN 18 840 0018 Army Review Draft RCR CLIN 18 851 0018 Army Review Draft RCR CLIN 18 852 0018 Army Review Draft RCR CLIN 18 853 0018 Army Review Draft RCR CLIN 18 854 0018 Army Review Draft RCR CLIN 18 855 0018 Army Review Draft RCR CLIN 18 856 0018 Army Review Draft RCR CLIN 18 857 0018 Army Review Draft RCR CLIN 18 858 0018 Army Review Draft RCR CLIN 18 859 0018 Army Review Draft RCR CLIN 18 859 0018 Army Review Braft RCR CLIN 18 850 0018 Army Review Braft RCR CLIN 18 850 0018 Army Review Braft RCR CLIN 18 850 0018 Army Review Repreve Repre		8810	0018	Data Review Meeting CC-RVAAP-78	1	11JUN14	11JUN14	Data Review Meeting CC-RVAAP-78
Removal Action		8815	0018	Demobilization CC-RVAAP-78	1	12JUN14	12JUN14	Demobilization CC-RVAAP-78
Second	1	ITC Re	moval	Action For CC-RVAAP-79				
Removal Action CC-RVAAP-79		Remova	l Action					
R830 0018 Confirmation Sampling CC-RVAAP-79 20 04JUL14 23JUL14 22AUG14		8820	0018	Mobilize To Site CC-RVAAP-79	1	13JUN14	13JUN14	Mobilize To Site CC-RVAAP-79
S855 0018 Conduct Lab Analysis CC-RVAAP-79 30 2JULIJ 22AUG14		8825	0018	Removal Action CC-RVAAP-79	20	14JUN14	03JUL14	Removal Action CC-RVAAP-79
Bata Review Meeting CC-RVAAP-79		8830	0018	Confirmation Sampling CC-RVAAP-79	20	04JUL14	23JUL14	Confirmation Sampling CC-RVAAP-79
Response Complete Report CLIN 18 Response Complete Report CLIN 18 Submit Pre-Draft RCR CLIN 18 Submit Pre-Draft RCR CLIN 18 Submit Draft RCR CLIN				-	30			- 1 <mark>-</mark> 1
Response Complete Report CLIN 18 Response Complete Report				-	1			
Response Complete Report				•	1	26AUG14	26AUG14	Demobilization CC-RVAAP-79
Section Sec	F	Respon	se Cor	mplete Report CLIN 18				
8855 0018 Submit Pre-Draft RCR To Army CLIN 18 8860 0018 Army Review Pre-Draft RCR CLIN 18 8865 0018 Attend Comment Resolution RCR CLIN 18 8870 0018 Prep&Submit Draft RCR To Army/Ohio EPA CLIN 18 8870 0018 Army/Ohio EPA Review Draft RCR CLIN 18 8875 0018 Army/Ohio EPA Review Draft RCR CLIN 18 8870 0018 Army/Ohio EPA Review Draft RCR To Army/Ohio EPA CLIN 18 8870 0018 Army/Ohio EPA Review Draft RCR To Army/Ohio EPA CLIN 18 8870 0018 Army/Ohio EPA Review Draft RCR CLIN 18 8870 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 8880 0018 Army/Ohio EPA Review Draft RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 8890 0018 Army/Ohio EPA Review Approver Fill RCR CLIN 18 890 0018 Achieve Non-Time Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 ♣ Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18								
8860 0018 Army Review Pre-Draft RCR CLIN 18 30 06OCT14 04NOV14 05NOV14						27AUG14		
8865 0018 Attend Comment Resolution RCR CLIN 18 8870 0018 Prep&Submit Draft RCR To Army/Ohio EPA CLIN 18 8870 0018 Army/Ohio EPA Review Draft RCR CLIN 18 8875 0018 Army/Ohio EPA Review Draft RCR CLIN 18 8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 8885 0018 Prep & Submit Final RCR To Army/EPA CLIN 18 8890 0018 Army /Ohio EPA Review Apprve Fnl RCR CLIN 18 8890 0018 Army /Ohio EPA Review Apprve Fnl RCR CLIN 18 8890 0018 Army /Ohio EPA Review Apprve Fnl RCR CLIN 18 8890 0018 Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18 8890 0018 Submit Final RCR CLIN 18 Non-Time Critical Removal Action CLIN 18 Non-Time-Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 ♣Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18				-				ou <mark>l</mark> e real de la real de la compansión
8870 0018 Prep&Submit Draft RCR To Army/Ohio EPA CLIN 18 10 06NOV14 15NOV14 8875 0018 Army/Ohio EPA Review Draft RCR CLIN 18 45 16NOV14 30DEC14 8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 3 31DEC14 05JAN15 8885 0018 Prep & Submit Final RCR To Army/EPA CLIN 18 20 06JAN15 25JAN15 8890 0018 Army /Ohio EPA Revie & Apprve Fnl RCR CLIN 18 45 26JAN15 11MAR15 8895 0018 Submit Final RCR CLIN 18 0 11MAR15 Non-Time Critical Removal Action CLIN 18 Non-Time-Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 10 06NOV14 15NOV14 15NOV1					30			
8875 0018 Army/Ohio EPA Review Draft RCR CLIN 18 45 16NOV14 30DEC14 8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 3 31DEC14 05JAN15 Attend Comment Resolution Mtg Draft RCR CLIN 18 45 06JAN15 25JAN15 Prep & Submit Final RCR To Army/EPA CLIN 18 20 06JAN15 25JAN15 Prep & Submit Final RCR To Army/EPA CLIN 18 45 26JAN15 11MAR15 Prep & Submit Final RCR CLIN 18 45 26JAN15 11MAR15 Prep & Submit Final RCR CLIN 18 0 11MAR15 Non-Time Critical Removal Action CLIN 18 0 11MAR15 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 0 11MAR15 ♦ Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 0 11MAR15					1			
8880 0018 Attend Comment Resolution Mtg Draft RCR CLIN 18 8885 0018 Prep & Submit Final RCR To Army/EPA CLIN 18 8890 0018 Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18 8890 0018 Submit Final RCR CLIN 18 8895 0018 Submit Final RCR CLIN 18 Non-Time Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 890 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 890 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 890 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18								
8885 0018 Prep & Submit Final RCR To Army/EPA CLIN 18 8890 0018 Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18 8890 0018 Submit Final RCR CLIN 18 8895 0018 Submit Final RCR CLIN 18 Non-Time Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 1 Prep & Submit Final RCR To Army/EPA CLIN 18 2 0 06JAN15 25JAN15 11MAR15 2 0 06JAN15 25JAN15 11MAR15 3 0 11MAR15				ļ ·	45			
8890 0018 Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18 8895 0018 Submit Final RCR CLIN 18 Non-Time Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18 11MAR15 Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18 Army /Ohio EPA Revw & Apprve				-	3			
8895 0018 Submit Final RCR CLIN 18 Non-Time Critical Removal Action CLIN 18 Non-Time-Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 0 11MAR15 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18								ou <mark>l</mark> no rock no r
Non-Time Critical Removal Action CLIN 18 Non-Time-Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 0 11MAR15					45	ZOJAN15		
Non-Time-Critical Removal Action 8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 0 11MAR15					U		11MAKI5	
8900 0018 Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18 0 11MAR15								
							11344515	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8900	0018	Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18	0		11MAR15	
				I				т <mark>о о о о о о о о о о о о о о о о о о о </mark>

A -4::4	CI IN	A .4554	C-1	El	El	20	011 201	12	2013 2014	2015 2016 20	17
Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	I A S	ONDJFMAMJ	JASOND J FMAM	J J A S O N D J F M A M J J A S O N D J	2015 2016 20 J F M A M J J A S O N D J F M A M J J A S O N D J F I 12434445464748495051525354555657585960616263646566676	A MA
8905	0018	Achieve Non-Time Critical RA CC-RVAAP-74 CLIN 18	Days	Start	11MAR15	1 1 2	3 4 5 6 7 8 9 10 11	<u> </u>	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 4	12434445464748495051525354555657585960616263646566676 Achieve Non-Time Critical RA CC-RVAAP-74 CLIN 18	86970
0903	0016	Achieve Non-Time Chucai RA CC-R VAAI -/4 CLIN 18			TIMAKIS					Achieve Ivon-Time Critical RA CC-R VAAT-74 CLIIV 16	i I
8910	0018	Achieve Non-Time Critical RA CC-RVAAP-78 CLIN 18	0		11MAR15					◆Achieve Non-Time Critical RA CC-RVAAP-78 CLIN 18	1
										◆30JUL15	i I
8915	0018	Achieve NTCRA Remaining Sites CC-RVAAP-79 CLIN18	0		11MAR15					◆ Achieve NTCRA Remaining Sites CC-RVAAP-79 CLIN18	I I
										◆30JUL15	
Subtotal			766	22FEB12	11MAR15						1
CLIN 0	019 (C	Opt) NTC RA CC-RVAAP-72									ļ ļ
CC-RV	AAP-72	? (Facility-Wide UG Storage Tanks)									
Enginee	ring Eva	aluation/Cost Analysis (EE/CA)									1
8955	0019	Prep & Submit PreDraft EE/CA To Army CC-RVAAP-72	30	18JUL13	16AUG13				Prep & Submit PreDraft EE/CA To Army	CC-RVAAP-72	i I
8960	0019	Submit Pre-Draft EE/CA To Army CC-RVAAP-72	0		16AUG13				Submit Pre-Draft EE/CA To Army CC-R	VAAP-72	i I
8965	0019	Army Review Pre-Draft EE/CA CC-RVAAP-72	30	27AUG13	25SEP13				Army Review Pre-Draft EE/CA CC-RV	/AAP-72	į.
8970	0019	Attend Comment Resolution MTG EE/CA CC-RVAAP-72	1	26SEP13	26SEP13				Attend Comment Resolution MTG EE/0	CA CC-RVAAP-72	į l
8975	0019	Prep&Submit Draft EE/CA To Army/Ohio EPA RVAAP72	20	27SEP13	16OCT13	1 1 1			Prep&Submit Draft EE/CA To Army/	/Ohio EPA RVAAP72	1
8980	0019	Army/Ohio EPA Review Draft EE/CA RVAAP-72	45	17OCT13	30NOV13				Army/Ohio EPA Review Draft EE	/CA RVAAP-72	
8985	0019	Attend Comment Resolution Mtg Drft EE/CA RVAAP72	3	02DEC13	04DEC13				Attend Comment Resolution Mtg	Drft EE/CA RVAAP72	
8990	0019	Prep & Submit Final EE/CA To Army/EPA RVAAP-72	20						Prep & Submit Final EE/CA To	Army/EPA RVAAP-72	
8995	0019	Army /Ohio EPA Revw & Approve Fnl EE/CA RVAAP72	45	25DEC13					Army /Ohio EPA Revw & A	pprove Fnl EE/CA RVAAP72	
9003	0019	Submit EE/CA - Final CC-RVAAP-72	0		07FEB14				Submit EE/CA - Final CC-	RVAAP-72	
Action I	/lemorai	ndum									1
8013	0019	Develop Pre-Draft Action Memo CC-RVAAP-72	30	17OCT13	15NOV13				Develop Pre-Draft Action Memo Co	C-RVAAP-72	
8018	0019	Submit Pre-Draft Action Memo To Army CC-RVAAP-72	0		15NOV13				Submit Pre-Draft Action Memo To	o Army CC-RVAAP-72	1
	0019	Army Review Pre-Draft Action Memo CC-RVAAP-72	30		25DEC13				Army Review Pre-Draft Action	Memo CC-RVAAP-72	
	0019	Attend Comment Resolution Mtg Act Memo RVAAP-72	1	26DEC13					Attend Comment Resolution Mt		i
	0019	Prep&Submit Draft AM To Army/Ohio EPA RVAAP-72	20	27DEC13		1 1 1			Prep&Submit Draft AM To A		
	0019	Army/Ohio EPA Review Draft AM CC-RVAAP-72	45		01MAR14				Army/Ohio EPA Review D		
	0019	Attend Comment Resolution Mtg Draft AM RVAAP72	3		05MAR14					on Mtg Draft AM RVAAP72	i I
	0019	Prep & Submit Final AM To Army/EPA CC-RVAAP-72			25MAR14					I To Army/EPA CC-RVAAP-72	1
	0019	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-72	45	26MAR14	09MAY14					vw & Approve Fnl AM RVAAP-72	
		Submit Final Act Memo CC-RVAAP-72	0		09MAY14	1 1 1			Submit Final Act M	Memo CC-RVAAP-72	1
		n Work Plan	20		4.4555	1111					i I
	0019	Develop Pre-Draft RAWP CC-RVAAP-72	30	16JAN14	14FEB14				Develop Pre-Draft RAWP C		i
	0019	Submit Pre-Draft RAWP To Army CC-RVAAP-72	0	05EEE1.1	14FEB14				Submit Pre-Draft RAWP		<u> </u>
	0019	Army Review Pre-Draft RAWP CC-RVAAP-72	30		26MAR14				Army Review Pre-Draft		
	0019	Attend Comment Resolution RAWP CC-RVAAP-72	1 20		27MAR14					ition RAWP CC-RVAAP-72	
	0019	Prep&Submit Draft RAWP To Army/Ohio EPA RVAAP72	20	28MAR14						AWP To Army/Ohio EPA RVAAP72	
	0019	Army/Ohio EPA Review Draft RAWP CC-RVAAP-72	45		31MAY14					eview Draft RAWP CC-RVAAP-72	
	0019	Attend Comment Resolution Mtg Draft CC-RVAAP-72	3	02JUN14						Resolution Mtg Draft CC-RVAAP-72	
	0019	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-72	20 45	05JUN14						Final RAWP To Army/EPA CC-RVAAP-72	
	0019	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-72 Submit Final RAWP CC-RVAAP-72	0	23JUN14	08AUG14 08AUG14					EPA Revw & Apprve Fnl RAWP RVAAP-72 al RAWP CC-RVAAP-72	
		1	U		UOAUU14				Submit Fina	III NA WI CU-N VAAI = 12	+
Remova 8193	0019	Mobilize To Site CC-RVAAP-72	1	11AUG14	11AUG14				Makilla	Site CC-RVAAP-72	
	0019	Removal Action CC-RVAAP-72	20		31AUG14					ction CC-RVAAP-72	
	0019	Confirmation Sampling CC-RVAAP-72	20	01SEP14						tion Sampling CC-RVAAP-72	
	0019	Conduct Lab Analysis CC-RVAAP-72	30		200CT14				_ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	ct Lab Analysis CC-RVAAP-72	
	0019	Data Review Meeting CC-RVAAP-72	1		210CT14					eview Meeting CC-RVAAP-72	
	0019	Demobilization CC-RVAAP-72	1		22OCT14					pilization CC-RVAAP-72	
		plete Report	1	2200114	2200114				, peinon	MILEGRAPH CV-XVAAI-12	
	0019	Develop Pre-Draft RCR CC-RVAAP-72	30	23OCT14	21NOV14				Dovo	elop Pre-Draft RCR CC-RVAAP-72	
	0019	Submit Pre-Draft RCR To Army CC-RVAAP-72	0	2300114	21NOV14 21NOV14					bmit Pre-Draft RCR To Army CC-RVAAP-72	į
	0019	Army Review Pre-Draft RCR CC-RVAAP-72	30	02DEC14	31DEC14					Army Review Pre-Draft RCR CC-RVAAP-72	
0200		, , , , , , , , , , , , , , , , , , ,	20			1 1 1	<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>		-1

	OF The					2011 2012 2013 2014 2015 2016 2017
Activity	CLIN	Activity Description	Cal	Early Start	Early Finish	J[A]S[O]N[D]J[F[M]A[M]J]J[A]S[O]N[D]J[A]S[O]N[A
8238 (0019	Attend Comment Resolution RCR CC-RVAAP-72	Days	02JAN15	02JAN15	-1 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970
	0019	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP72	20	02JAN15 03JAN15	22JAN15	Attend Comment Resolution RCR CC-RVAAP-72 Prep&Submit Draft RCR To Army/Ohio EPA RVAAP72
	0019			23JAN15	08MAR15	Army/Ohio EPA Review Draft RCR CC-RVAAP-72
	0019	Army/Ohio EPA Review Draft RCR CC-RVAAP-72	45			
		Attend Comment Resolution Mtg Draft RCR RVAAP-72	3	09MAR15		Attend Comment Resolution Mtg Draft RCR RVAAP-72
	0019 0019	Prep & Submit Final RCR To Army/EPA CC-RVAAP-72	20	12MAR15 01APR15	31MAR15 15MAY15	Prep & Submit Final RCR To Army/EPA CC-RVAAP-72
		Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP72 Submit Final RCR CC-RVAAP-72	45	UIAPRIS		Army/Ohio EPA Revw & Apprve Fnl RCR RVAAP72 Submit Final RCR CC-RVAAP-72
		cal Removal Action	0		15MAY15	Submit Final RCR CC-RVAAP-72
		Achieve Non-Time Critical RA CC-RVAAP-72	0		15MAY15	Ashing Non Time Critical D.A. CC DVAAD 72
82/3	0019	Achieve Non-Time Chucai RA CC-RVAAF-72	0		13MA113	Achieve Non-Time Critical RA CC-RVAAP-72
Subtotal (0019		459	18JUL13	15MAY15	
		Opt) NTC RA CC-RVAAP-75	1.02	1		
		5 (George Rd Sewage Treatment Plant)				
		aluation/Cost Analysis (EE/CA)				
		Prep & Submit PreDraft EE/CA To Army CC-RVAAP-75	30	18JUL13	16AUG13	Prep & Submit PreDraft EE/CA To Army CC-RVAAP-75
		Submit Pre-Draft EE/CA To Army CC-RVAAP-75	0		16AUG13	Submit Pre-Draft EE/CA To Army CC-RVAAP-75
		Army Review Pre-Draft EE/CA CC-RVAAP-75	30	27AUG13		Army Review Pre-Draft EE/CA CC-RVAAP-75
	0020	Attend Comment Resolution MTG EE/CA CC-RVAAP-75	1	26SEP13	26SEP13	Attend Comment Resolution MTG EE/CA CC-RVAAP-75
	0020	Prep&Submit Draft EE/CA To Army/Ohio EPA RVAAP75	20	27SEP13	16OCT13	Prep&Submit Draft EE/CA To Army/Ohio EPA RVAAP75
	0020	Army/Ohio EPA Review Draft EE/CA CC-RVAAP-75	45	17OCT13	30NOV13	Army/Ohio EPA Review Draft EE/CA CC-RVAAP-75
	0020	Attend Comment Resolution Mtg Drft EE/CA RVAAP75	3	02DEC13	04DEC13	Attend Comment Resolution Mtg Drft EE/CA RVAAP75
	0020	Prep & Submit Final EE/CA To Army/EPA RVAAP-75	20	05DEC13	24DEC13	Prep & Submit Final EE/CA To Army/EPA RVAAP-75
		Army /Ohio EPA Revw & Approve Fnl EE/CA RVAAP75	45	25DEC13	07FEB14	Army /Ohio EPA Revw & Approve Fnl EE/CA/RVAAP75
8353	0020	Submit EE/CA - Final CC-RVAAP-75	0		07FEB14	Submit EE/CA - Final CC-RVAAP-75
Action M						
		Develop Pre-Draft Action Memo CC-RVAAP-75	30	17OCT13	15NOV13	Develop Pre-Draft Action Memo CC-RVAAP-75
		Submit Pre-Draft AM To Army CC-RVAAP-75	0		15NOV13	Submit Pre-Draft AM To Army CC-RVAAP-75
	0020	Army Review Pre-Draft Action Memo CC-RVAAP-75	30	26NOV13	25DEC13	Army Review Pre-Draft Action Memo CC-RVAAP-75
	0020	Attend Comment Resolution Mtg Act Memo RVAAP-75	1	26DEC13	26DEC13	Attend Comment Resolution Mtg Act Memo RVAAP-75
		Prep&Submit Draft AM To Army/Ohio EPA RVAAP-75	20	27DEC13	15JAN14	Prep&Submit Draft AM To Army/Ohio EPA RVAAP-75
	0020	Army/Ohio EPA Review Draft AM CC-RVAAP-75	45		01MAR14	Army/Ohio EPA Review Draft AM CC-RVAAP-75
	0020	Attend Comment Resolution Mtg Draft AM RVAAP75	3	03MAR14	05MAR14	Attend Comment Resolution Mtg Draft AM RVAAP75
	0020	Prep & Submit Final AM To Army/EPA CC-RVAAP-75	20	06MAR14		Prep & Submit Final AM To Army/EPA CC-RVAAP-75
	0020	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-75	45	26MAR14		Army /Ohio EPA Revw & Approve Ful AM RVAAP-75
8403	0020	Submit Final Action Memo CC-RVAAP-75	0		09MAY14	Submit Final Action Memo CC-RVAAP 75
		n Work Plan				
		Develop Pre-Draft RAWP CC-RVAAP-75	30	16JAN14	14FEB14	Develop Pre-Draft RAWP CC-RVAAP-75
		Submit Pre-Draft RAWP To Army CC-RVAAP-75	0		14FEB14	Submit Pre-Draft RAWP To Army CC-RVAAP-75
	0020	Army Review Pre-Draft RAWP CC-RVAAP-75	30	25FEB14	26MAR14	Army Review Pre-Draft RAWP CC-RVAAP-75
	0020	Attend Comment Resolution RAWP CC-RVAAP-75	1	27MAR14	27MAR14	Attend Comment Resolution RAWP CC-RVAAP-75
	0020	Prep&Submit Draft RAWP To Army/Ohio EPA RVAAP75	20	28MAR14	16APR14	Prep&Submit Draft RAWP To Army/Ohio EPA RVAAP75
	0020	Army/Ohio EPA Review Draft RAWP CC-RVAAP-75	45	17APR14	31MAY14	Army/Ohio EPA Review Draft RAWP CC-RVAAP-75
	0020	Attend Comment Resolution Mtg Draft CC-RVAAP-75	3	02JUN14	04JUN14	Attend Comment Resolution Mtg Draft CC-RVAAP-75
	0020	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-75	20	05JUN14	24JUN14	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-75
	0020	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-75	45	25JUN14	08AUG14	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-75
		Submit Final RAWP CC-RVAAP-75	0		08AUG14	Submit Final RAWP CC-RVAAP-75
Removal						
	0020	Mobilize To Site CC-RVAAP-75	1	11AUG14	11AUG14	Mobilize To Site CC-RVAAP-75
		Removal Action CC-RVAAP-75	20	12AUG14		Removal Action CC-RVAAP-75
	0020	Confirmation Sampling CC-RVAAP-75	20	01SEP14	20SEP14	Confirmation Sampling CC-RVAAP-75
		Conduct Lab Analysis CC-RVAAP-75	30	21SEP14	20OCT14	Conduct Lab Analysis CC-RVAAP-75
	0020	Data Review Meeting CC-RVAAP-75	1	21OCT14	21OCT14	Data Review Meeting CC-RVAAP-75
8483	0020	Demobilization CC-RVAAP-75	1	22OCT14	22OCT14	Demobilization CC-RVAAP-75

					2011		201	2		2013		2	014	2015 2016	2017
Activity CLIN	Activity	Cal	Early	Early	JASON	DJFM		JASON	DJFMAM	JJAS	ONDJ	FMAM J	JAS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FM MA
ID	Description	Days	Start	Finish	1 2 3 4	5 6 7 8	9 10 11 1	2131415161	17 18 19 20 21 22	23 24 25 26 2	27 28 29 30	313233343	53637383	9404142434445464748495051525354555657585960616263646566	57686970
Response Comp	·		ı				$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1 1 1 1		1 1		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1
	Develop Pre-Draft RCR CC-RVAAP-75	30	23OCT14	21NOV14										Develop Pre-Draft RCR CC-RVAAP-75	
	Submit Pre-Draft RCR To Army CC-RVAAP-75	0		21NOV14										Submit Pre-Draft RCR To Army CC-RVAAP-75	i
	Army Review Pre-Draft RCR CC-RVAAP-75	30		31DEC14							1 1			Army Review Pre-Draft RCR CC-RVAAP-75	1
	Attend Comment Resolution RCR CC-RVAAP-75	1	02JAN15											Attend Comment Resolution RCR CC-RVAAP-75	
	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP75	20	03JAN15	22JAN15			<u> </u>				ii		<u> </u>	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP75	i
	Army/Ohio EPA Review Draft RCR CC-RVAAP-75	45		08MAR15							1 1			Army/Ohio EPA Review Draft RCR CC-RVAAP-75	1
	Attend Comment Resolution Mtg Draft RCR RVAAP-75	3		11MAR15										Attend Comment Resolution Mtg Draft RCR RVAAP-75	
	Prep & Submit Final RCR To Army/EPA CC-RVAAP-75	20		31MAR15										Prep & Submit Final RCR To Army/EPA CC-RVAAP-7	
	Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP75	45	01APR15	15MAY15							1 1			Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP	<i>1</i> 5
	Submit Final RCR CC-RVAAP-75	0		15MAY15										Submit Final RCR CC-RVAAP-75	1
	al Removal Action														i I
8538 0020	Achieve Non-Time Critical RA CC-RVAAP-75	0		15MAY15										Achieve Non-Time Critical RA CC-RVAAP-75	
Subtotal 0020		450	101111 12	15 1 4 37 1 5										01AUG15	
		459	18JUL13	15MAY15		1 1 1	<u> </u>	1 1 1 1 1	1 1 1 1						1
CLIN 0021 A	I Remedies, Opt Capital & L-T Costs														
						1 1 1		1 1 1 1 1			1 1		1 1 1 1		1
9020 0021	All Remedies, Optimize Cap. & Long Term Costs	1,445	15AUG11	29JUL15										All Remedies, Optimize Cap. & Long Term Co	sts
Subtotal 0021		1,445	15AUG11	29JUL15											İ

APPENDIX B MILESTONE PAYMENT SCHEDULE



CLIN	Sub-CLIN	Tasks	Payment Metric
0001		Project Management Plan and Quality Assurance Surveillance Plan	
	0001.AA	Draft Project Management Plan	Resolution of Army Comments on Draft
	0001.AB	Final Project Management Plan	Regulatory Approval
	0001.AC	Draft Quality Assurance Surveillance Plan	Resolution of Army Comments on Draft
0002		Historical Records Review CC-RVAAP-71 and CC-RVAAP-83	
		Barn No. 5 Petroleum Release and Former Buildings 1031 and 1039	
	0002.AA	Draft Historical Records Review	Resolution of Army Comments on Draft
	0002.AB	Final Historical Records Review	Regulatory Approval
0003		(OPTIONAL) Site Inspection CC-RVAAP-71 Barn No. 5 Petroleum Release	
	0003.AA	Draft Site Inspection Work Plan	Resolution of Army Comments on Draft
	0003.AA	Final Site Inspection Work Plan	Regulatory Approval
	0003.AB	Field Completion Report	Army Acceptance of Data Submittial
	0003.AC	Draft Site Inspection Report	Resolution of Army Comments on Draft
	0003.AD	Final Site Inspection Report	Regulatory Approval
	0003.AL	The same same same same same same same sam	. togulatory / tpproval
0004	1	(OPTIONAL) Site Inspection CC-RVAAP-83	
		Former Buildings 1031 and 1039	
	0004.AA	Draft Site Inspection Work Plan	Resolution of Army Comments on Draft
	0004.AB	Final Site Inspection Work Plan	Regulatory Approval
	0004.AC	Field Completion Report	Army Acceptance of Data Submittial
	0004.AD	Draft Site Inspection Report	Resolution of Army Comments on Draft
	0004.AE	Final Site Inspection Report	Regulatory Approval
0005		Site Inspection CC-RVAAP-70, 72, 75, 77	
		CC-RVAAP-70 East Classification Yard, CC-RVAAP-72 Facility Wide Underground Storage Tanks,	
		CC-RVAAP-75 George Road Sewage Treatment Plant, and	
		CC-RVAAP-77 Building 1037 Laundry Waste Water Sump	
	0005.AA	Draft Site Inspection Work Plan	Resolution of Army Comments on Draft
	0005.AB	Final Site Inspection Work Plan	Regulatory Approval
	0005.AC	Field Completion Report	Army Acceptance of Data Submittial
	0005.AD	Draft Site Inspection Report	Resolution of Army Comments on Draft
	0005.AE	Final Site Inspection Report	Regulatory Approval
0006		Remedial Investigation CC-RVAAP-79	
0000		DLA Ore Storage Site - Main Ore Storage Yard	
	0006.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	0006.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	0006.AC	Field Completion Report	Army Acceptance of Data Submittial
	0006.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	0006.AE	Final Remedial Investigation Report	Regulatory Approval
0007	1	Eggejhility Study CC DVAAD 76	
0007	 	Feasibility Study CC-RVAAP-76 Depot Area	
	0007.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
		Final Remedial Investigation Work Plan	Regulatory Approval
	0007.AB	Field Completion Report	Army Acceptance of Data Submittial
		Field Completion Report Draft Remedial Investigation Report	Army Acceptance of Data Submittial Resolution of Army Comments on Draft
	0007.AB 0007.AC 0007.AD		Resolution of Army Comments on Draft
	0007.AB 0007.AC 0007.AD 0007.AE	Draft Remedial Investigation Report	Resolution of Army Comments on Draft Regulatory Approval
	0007.AB 0007.AC 0007.AD	Draft Remedial Investigation Report Final Remedial Investigation Report	Resolution of Army Comments on Draft
	0007.AB 0007.AC 0007.AD 0007.AE 0007.AF	Draft Remedial Investigation Report Final Remedial Investigation Report Draft Feasibility Study Work Plan	Resolution of Army Comments on Draft Regulatory Approval Resolution of Army Comments on Draft Regulatory Approval
	0007.AB 0007.AC 0007.AD 0007.AE 0007.AF 0007.AG	Draft Remedial Investigation Report Final Remedial Investigation Report Draft Feasibility Study Work Plan Final Feasibility Study Work Plan	Resolution of Army Comments on Draft Regulatory Approval Resolution of Army Comments on Draft

CLIN	Sub-CLIN	Tasks	Payment Metric
8000		Remedial Investigation CC-RVAAP-68, 69, 73, 74, 78, AND 79	
		CC-RVAAP-68 Electrical Substation East, West, and West No. 3	
		CC-RVAAP-69 Building 1048 Fire Station, CC-RVAAP-73 Facility Wide Coal Storage	
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift, CC-RVAAP-78 Quarry Pond Surface Dump	
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites	
	0008.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	0000.7.01	CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Resolution of Army Comments on Draft
		CC-RVAAP-69 Building 1048 Fire Station	Resolution of Army Comments on Draft
		CC-RVAAP-73 Facility Wide Coal Storage	Resolution of Army Comments on Draft
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Resolution of Army Comments on Draft
		CC-RVAAP-78 Quarry Pond Surface Dump	Resolution of Army Comments on Draft
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites	Resolution of Army Comments on Draft
	0008.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	0000:12	CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Regulatory Approval
		CC-RVAAP-69 Building 1048 Fire Station	Regulatory Approval
		CC-RVAAP-73 Facility Wide Coal Storage	Regulatory Approval
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Regulatory Approval
		CC-RVAAP-78 Quarry Pond Surface Dump	Regulatory Approval
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites	Regulatory Approval
	0008.AC	Field Completion Report	Army Acceptance of Data Submittial
	0000.AC	CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Army Acceptance of Data Submittial
		CC-RVAAP-69 Building 1048 Fire Station	Army Acceptance of Data Submittial
		CC-RVAAP-73 Facility Wide Coal Storage	Army Acceptance of Data Submittial
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Army Acceptance of Data Submittial
		CC-RVAAP-78 Quarry Pond Surface Dump	Army Acceptance of Data Submittial
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites	Army Acceptance of Data Submittial
	0008.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	0000.AD	CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Resolution of Army Comments on Draft
		CC-RVAAP-69 Building 1048 Fire Station	Resolution of Army Comments on Draft
		CC-RVAAP-73 Facility Wide Coal Storage	Resolution of Army Comments on Draft
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Resolution of Army Comments on Draft
		CC-RVAAP-78 Quarry Pond Surface Dump	Resolution of Army Comments on Draft
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites	Resolution of Army Comments on Draft
	0008.AE	Final Remedial Investigation Report	Regulatory Approval
	0006.AE	CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Regulatory Approval
		CC-RVAAP-69 Building 1048 Fire Station	Regulatory Approval
		CC-RVAAP-73 Facility Wide Coal Storage	Regulatory Approval
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Regulatory Approval
		CC-RVAAP-78 Quarry Pond Surface Dump	Regulatory Approval
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites	Regulatory Approval
		To the to be to storage their formalising of the order	regulatory Approval
0009		(OPTIONAL) Remedial Investigation CC-RVAAP-70	
5009		East Classification Yard	
	0009.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	0009.AA	Final Remedial Investigation Work Plan	Regulatory Approval
	0009.AB	Field Completion Report	Army Acceptance of Data Submittial
	0009.AC	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	0009.AD 0009.AE	Final Remedial Investigation Report	Resolution of Army Comments on Draft Regulatory Approval
	0009.AE	I mai Nemeulai myeshgahon Reput	Regulatory Approval
0010		(OPTIONAL) Remedial Investigation CC-RVAAP-71	+
5010		Barn No. 5 Petroluem Release	
	00010.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00010.AA	Final Remedial Investigation Work Plan	Regulatory Approval
	00010.AB	Field Completion Report	Army Acceptance of Data Submittial
	00010.AC	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00010.AD	Final Remedial Investigation Report	Regulatory Approval
	300 TO.AE	i mai recinicalai invocingation report	inegulatory Approval

CLIN	Sub-CLIN	Tasks	Payment Metric
0011		(OPTIONAL) Remedial Investigation CC-RVAAP-72	
		Facility-Wide Underground Storage Tanks	
	00011.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00011.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00011.AC	Field Completion Report	Army Acceptance of Data Submittial
	00011.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00011.AE	Final Remedial Investigation Report	Regulatory Approval
0012		(OPTIONAL) Remedial Investigation CC-RVAAP-75	
		George Road Sewage Treatment Plant	
	00012.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00012.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00012.AC	Field Completion Report	Army Acceptance of Data Submittial
	00012.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00012.AE	Final Remedial Investigation Report	Regulatory Approval
0013		(OPTIONAL) Remedial Investigation CC-RVAAP-77	
		Building 1037 Laundry Waste Water Sump	
	00013.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00013.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00013.AC	Field Completion Report	Army Acceptance of Data Submittial
	00013.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00013.AE	Final Remedial Investigation Report	Regulatory Approval
0014		(OPTIONAL) Remedial Investigation CC-RVAAP-80	
		Group 2 Propellant Can Tops	
	00014.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00014.AA	Final Remedial Investigation Work Plan	Regulatory Approval
	00014.AC	Field Completion Report	Army Acceptance of Data Submittial
	00014.AC	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00014.AE	Final Remedial Investigation Report	Regulatory Approval
0015		(ODTIONAL) Paradial Invastination CC DVAAD 92	
0015		(OPTIONAL) Remedial Investigation CC-RVAAP-83 Former Buildings 1031 and 1039	
	00045 4 4	Draft Remedial Investigation Work Plan	Decelution of Army Comments on Droft
	00015.AA 00015.AB	Final Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00015.AB	Field Completion Report	Regulatory Approval Army Acceptance of Data Submittial
		Draft Remedial Investigation Report	
	00015.AD		Resolution of Army Comments on Draft
	00015.AE	Final Remedial Investigation Report	Regulatory Approval
0016		Non-Time Critical Removal Action Inside Load Lines 1,2,3,4,12 for CC-RVAAP-73 AND 79	
		CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4	
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 12	
	00016.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
		CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4	Resolution of Army Comments on Draft
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 12	Resolution of Army Comments on Draft
	00016.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
		CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4	Regulatory Approval
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 12	Regulatory Approval
	00016.AC	Field Completion Report	Army Acceptance of Data Submittial
		CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4	Army Acceptance of Data Submittial
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 12	Army Acceptance of Data Submittial
	00016.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
		CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4	Resolution of Army Comments on Draft
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 12	Resolution of Army Comments on Draft
	00040 45	Final Non-Time Critical Removal Action Report	Regulatory Approval
	00016.AE		
	00016.AE	CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4	Regulatory Approval

CLIN	Sub-CLIN	Tasks	Payment Metric
0017		Non-Time Critical Removal Action CC-RVAAP-79	
		DLA Ore Storage Sites - Main Ore Storage Yard	
	00017.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
	00017.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
	00017.AC	Field Completion Report	Army Acceptance of Data Submittial
	00017.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
	00017.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval
018		Non-Time Critical Removal Action CC-RVAAP-73, 74, 78, 79	
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	
		CC-RVAAP-78 Quarry Pond Surface Dump	
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	
	00018.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	Resolution of Army Comments on Draft
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Resolution of Army Comments on Draft
		CC-RVAAP-78 Quarry Pond Surface Dump	Resolution of Army Comments on Draft
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	Resolution of Army Comments on Draft
	00018.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	Regulatory Approval
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Regulatory Approval
		CC-RVAAP-78 Quarry Pond Surface Dump	Regulatory Approval
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	Regulatory Approval
	00018.AC	Field Completion Report	Army Acceptance of Data Submittial
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	Army Acceptance of Data Submittial
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Army Acceptance of Data Submittial
		CC-RVAAP-78 Quarry Pond Surface Dump	Army Acceptance of Data Submittial
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	Army Acceptance of Data Submittial
	00018.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
	000101112	CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	Resolution of Army Comments on Draft
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Resolution of Army Comments on Draft
		CC-RVAAP-78 Quarry Pond Surface Dump	Resolution of Army Comments on Draft
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	Resolution of Army Comments on Draft
	00018.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval
	00010.AL	CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	Regulatory Approval
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	Regulatory Approval
		CC-RVAAP-78 Quarry Pond Surface Dump	
		CC-RVAAP-79 Quarry Ford Surface Dump CC-RVAAP-79 DLA Storage Sites - Remaining Sites	Regulatory Approval Regulatory Approval
		CO-RVAAF-19 DEA Stolage Sites - Remaining Sites	Regulatory Approval
0019		(OPTIONAL) Non-Time Critical Removal Action CC-RVAAP-72	
		Facility Wide Underground Storage Tanks	
	00019.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
	00019.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
	00019.AC	Field Completion Report	Army Acceptance of Data Submittial
	00019.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
	00019.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	And the state of t	
020		(OPTIONAL) Non-Time Critical Removal Action CC-RVAAP-75	
		George Road Sewerage Treatment Plant	
	00020.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
	00020.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
	00020.AC	Field Completion Report	Army Acceptance of Data Submittial
	00020.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
	00020.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval
0021	00021.AA	For all remedies, optimize capital, and long-term costs	

APPENDIX C COMMUNICATION PLAN



Environmental Investigation and Remediation Services - 14 Compliance Restoration Sites

Ravenna Army Ammunition Plant

Al Easterday

US Army Corps of Engineers, Louisville

Date
Revision #
Project #

27-Jan-12

0 5161.004

										C	OMN	/IUN	ICA [*]	TIOI	N PL	.AN									
#	Communications Item	USACE CORs - Chris Karem, Shelton Poole	USACE Contract Specialist - Stephanie Craig	USACE Project Manager - Glen Beckham	USACE Task Manager - Eric Cheng	USACE Task Manager - T. Scott Kelly	Senior PM - Al Easterday	Assistant PM - Nick Picardo	H&S/QC Manager - Mike McSherry, CIH, CSP	Chemist - Jackson Kiker, CHMM	Sr. Sci - John Jent, PE (Prudent)	Sr. Hydrogeologist - Michael Goydas, PG	Sr. Geologist - Bruce Baker, CPG, PG (AMEC)	Site Safety & Health Officer - Jeff Donovan	Risk Accessor - Deborah Barsotti, PhD (AMEC)	USAEC Site Lead - Mark Eldridge	BRAC Program Manager - William O'Donnell	RVAAP Facility Manager - Mark Patterson	NGB Cleanup Program Manager - Kim Harriz	OHARNG Environmental Specialist - Katie Tait	Ohio EPA Facility Coordinator - Eileen Mohr	Ohio EPA Site Coordinator - Kevin Palombo	RAB	When	How
1	Project Schedule	R	ı	R	R	R	Α	С	ı	I	С	ı	С	С	I	I	I	I	I	I	I	ı	-	Preliminary Draft, Draft, Final	Email, HC, & EC
2	Project Management Plan	R	I	R	R	R	Α	С	I	I	С	-	С	С	ı	I	I	ı	-	I	R	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
3	Quality Assurance Surviellance Plan	R	-	R	R	R	Α	С	С	С	С	С	С	С	_	I	I	ı	ı			I	-	Preliminary Draft, Draft, Final	Email, HC, & EC
4	Communications Plan	R	-	R	R	R	Α	С	I	I	I	-	I	-	-	I		I	-	ı	I	I	-	Preliminary Draft, Draft, Final	Email, HC, & EC
5	Health and Safety Plan Addendum	R	-	R	R	R	Α	С	R	I	I	-	I	C		I		I	-	ı	I	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
6	QAPP Addendum	R	-	R	R	R	Α	С	С	С	С	C	С	С	C	С		I			R	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
7	Work Plans/Reports/Studies	R	-	R	R	R	Α	С	С	С	С	С	С	С	С	I	I	I	I	I	R	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
8	Project Meeting Agendas	R	-	R	R	R	Α	С	I	I	С	ı	С	ı	ı	I	I	ı	ı	ı	ı	ı	I	1 week prior to mgt	Email
9	Project Meeting Notes	R	-	R	R	R	Α	С	I	ı	R	ı	ı	I	Ι	R*	R*	R*	R*	R*	R*	R*	ı	2 weeks after mgt	Email
10	Monthly Progress Reports	R	-	R	R	R	Α	С	I	I	I	I	I	I	I	I	I	ı	I	I	I	I	-	as needed	Phone/Email
11	Teleconferences	R	-	R	R	R	Α	С	I	I	С	I	I	I	I	I	I	I	I	I	I	I	-	bi-weekly	Phone

	Legend:								
R	Review/Approve Document								
Α	Accountable for Preparation								
C	Consult on Preparation								
	Inform/Participate								

^{*} Note: Regulators, RVAAP and USAEC will receive project meeting notes where they are involved.

EC = Electronic copy

HC = Hard copy



APPENDIX D

CORRESPONDENCE AND COMMENT RESPONSE TABLE





Environmental Protection Agency

John R. Kasich, Governor Mary Taylor, Lt. Governor Scott J. Nally, Director

January 3, 2012

RE:

PORTAGE/TRUMBULL COUNTIES
DRAFT PROJECT MANAGEMENT PLAN
FOR 14 COMPLIANCE RESTORATION

SITES (ID # 267000859162)

Mr. Mark Patterson, Facility Manager Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266

CERTIFIED MAIL

7010 3090 0000 3936 6344

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the document entitled: Draft Project Management Plan, 2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites, Ravenna Army Ammunition Plant, Ravenna, Ohio. This document, dated November 17, 2011 and received on November 18, 2011 at Ohio EPA, was prepared for the U.S. Army Corps of Engineers (USACE) - Louisville District, by ECC, under contract number W912QR-04-D-0039.

This document was reviewed by personnel from Ohio EPA's Division of Environmental Response and Revitalization (DERR). Ohio EPA's comments are enclosed with this letter.

If you have any questions regarding this correspondence, please do not hesitate to contact me at (330) 963-1292.

Sincerely,

Kevin Palombo, Project Coordinator

Division of Environmental Response and Revitalization

kevin.palombo@epa.ohio.gov

Kenner

KP/kss

enclosure

cc: Eileen Mohr, Ohio EPA, NEDO, DERR

ec: Katie Tait, Camp Ravenna

Derek Kinder, USACE, Louisville Glen Beckham, USACE, Louisville Thomas Chanda, USACE, Louisville Nancy Zikmanis, Ohio EPA, NEDO, DERR

Todd Fisher, Ohio EPA, NEDO, DERR

Bob Guthrie, Comcast

Al Easterday, ECC Mark Eldridge, AEC

Eric Cheng, USACE, Louisville Mark Nichter, USACE, Louisville LTC Ed Meade, Camp Ravenna

Christy Esler, VISTA

Draft Project Management Plant, 2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites Ravenna Army Ammunition Plant

Dated: November 17, 2011

Comment Number	Page or Sheet	Comment	Recommendation	Response
			Ohio EPA (K. Palombo	0)
O-1.	Report Documentation Page, Line 4. Title and Subtitle	The word "Investigation" was omitted from the title.	Line 2 of the title should read, "2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites.	
	Page iii Acronyms and Abbreviations	First line of Acronyms ACM, spelling of "asbestos."	Correct spelling of 'Asbestos."	
O-3.	Page i, line 138	Table of Contents, Section 7.0, Record Management should read, "Records" Management.	Make spelling change, "Record" to "Records."	
	Page ii , Table of Contents, line 144, Section 8.1 and page 41, Section 8.1, line 1203	Section 8.1, title reads, "Government Furnished Resources" in the TOC and "Army Furnished Resources" on page 41.	Correct the inconsistency.	

DRAFT PROJECT MANAGEMENT PLAN, 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION

AT 14 COMPLIANCE RESTORATION SITES RAVENNA ARMY AMMUNITION PLANT

DATED: NOVEMBER 17, 2011

PAGE 2

Comment Number	Page or Sheet	Comment	Recommendation	Response
O-5.	Page ii, Table of Contents	The list of Tables and Figures in the Table of Contents should provide page numbers.	Provide page numbers for Figures and Tables.	
O-6.	General	Tables1-1 and 1-2 are located in a "tabbed" section following the text and Figures 2-1 and 3-1 are included in the text. All Tables are located within the text.	For consistency, Ohio EPA recommends including Figures 1-1 and 1-2 within the text.	
O-7.	Figures Tab. Figure 1-2	Figure 1-2 does not have a scale.	Provide a scale on Figure 1-2.	
O-8.	Page 14, line 559	Spelling of the word, "Containment."	Make the spelling change.	
O-9.	Page 8, line 333	Describes sections of the Project Management Plan. Section 2.0 is titled Project Management "Team." The actual	Stay consistent with the PMP title for Section 2.0. Change line 333 to read, "Project Management Organization."	

DRAFT PROJECT MANAGEMENT PLAN, 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION

AT 14 COMPLIANCE RESTORATION SITES RAVENNA ARMY AMMUNITION PLANT

DATED: NOVEMBER 17, 2011

PAGE 3

Comment Number	Page or Sheet	Comment	Recommendation	Response
		PMP title for Section 2.0 is Project Management "Organization."		
O-10.	Page 9, line 375	The section describing CC- RVAAP-70 East Classification Yard does not provide information on historical spills or potential releases.	Provide info on historic spills or potential releases from the East Classification Yard.	
O-11.	Page 14, line 564	Site Related Constituents (SRC)	Include this acronym (SRC) in the Acronyms and Abbreviations list.	
O-12.	Page 34, line 1003	Electronic Data Deliverable (EDD)	Include this acronym in the Acronym and Abbreviation List	
O-13.	Page 34, line 1029	Reference to UTM coordinate system datum WGS84 is unclear.	Provide a clarifying or descriptive sentence describing what the WGS84 datum refers to.	

DRAFT PROJECT MANAGEMENT PLAN, 2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION

AT 14 COMPLIANCE RESTORATION SITES

RAVENNA ARMY AMMUNITION PLANT DATED: NOVEMBER 17, 2011

PAGE 4

Comment Number	Page or Sheet	Comment	Recommendation	Response
	Page 37, line 1061	Accident Prevention Plan (APP)	Include this acronym in the Acronym and Abbreviation List.	

From:

"Tait, Kathryn S Ms CIV NG OHARNG" <kathryn.s.tait@us.army.mil>

To:

AEasterday@ecc.net

CC:

Kevin.Palombo@epa.state.oh.us; Timothy.S.Kelly@usace.army.mil; Mark.W.Ni...

Date:

1/12/2012 8:36 AM

Subject:

RE: ECC Response to Comments - Draft PMP (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

Al:

I have reviewed the comment responses. Comment responses are acceptable. Please note for OHARNG comment number 7, that the incorporation of findings from the SAIC HRR report into the ECC work will be discussed during the work plan comment resolution as it also relates to comments on that document. We will need to discuss how the recommendations from the HRR report (which is final and approved) will be incorporated into your work. Thanks.

Katie Tait Environmental Specialist 2 Ohio Army National Guard (614)336-6136 kathryn.s.tait@us.army.mil

-----Original Message-----

From: Al Easterday [mailto:AEasterday@ecc.net] Sent: Wednesday, January 11, 2012 8:01 AM

To: kevin.palombo@epa.ohio.gov; Tait, Kathryn S Ms CIV NG OHARNG Cc: Gina Calderone; Nicholas Picardo; Elleen' 'Mohr; Mark Patterson; Eric

Cheng; Glen LRL Beckham; Mark Nichter; Scott Kelly Subject: ECC Response to Comments - Draft PMP

Katie and Kevin -

Attached please find ECC's Comment Response Table (CRT) for your review and concurrence.

If you have any questions, please contact me.

Regards,

Al Easterday Sr. Project Manager ECC 33 Boston Post Road West Suite 340 Marlborough, Massachusetts 01752 Phone (508) 229-2270 Fax (508) 229-7737 Cell (508) 726-0284

Classification: UNCLASSIFIED

Caveats: FOUO

From: "Palombo, !

"Palombo, Kevin" < Kevin. Palombo@epa.state.oh.us>

To: "aeasterday@ecc.net" <aeasterday@ecc.net>, "Mohr, Eileen" <eileen.mohr@e...
1/17/2012 8:07 AM

Subject:

Draft PMP for CRS Comment Response Table

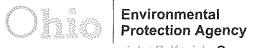
Morning Al:

I reviewed your responses to our comments on the PMP for the 14 Compliance Restoration Sites and have no further questic Your responses are acceptable. Please finalize the document.

Thanks Kevin

Kevin M. Palombo, Site Coordinator

Ohio EPA I Division of Environmental Response and Revitalization Northeast District Office 2110 E. Aurora Road Twinsburg, OH 44087 330-963-1292 Fax 330-487-0769 kevin.palombo@epa.ohio.gov



John R. Kasich, Governor Mary Taylor, Lt. Governor Scott J. Nasy, Director

February 21, 2012 RE: RVAAP-SITEMG- 267000859059

RAVENNA ARMY AMMUNITION PLANT, PORTAGE/TRUMBULL COUNTIES, FINAL PROJECT MANAGEMENT PLAN COMPLIANCE RESTORATION SITES

(14 AREAS OF CONCERN)

Mr. Mark Patterson Installation Manager

Ravenna Army Ammunition Plant

8451 State Route 5 Ravenna, OH 44266 <u>CERTIFIED MAIL</u>

7010 3090 0000 3936 6207

NOTE TO OHRANG: Please forward to NGB as needed/required.

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the "Final Project Management Plan, 2011 PBA Environmental Investigation and Remediation at Compliance Restoration Sites (14 Areas of Concern) Ravenna Army Ammunition Plant, Ravenna, Ohio." The final document was received at Ohio EPA, Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR), on January 30, 2012. The document was prepared for the U.S. Army Corps of Engineers (USACE) – Louisville District, by ECC, under Contract Number W912QR-04-D-0039, Delivery Order 0004.

Pursuant to the CERCLA process, the property owner usually can provide the expected land uses to assist in ensuring that the investigation addresses all receptors for both current and future land uses. Be advised that due to land use uncertainty, Ohio EPA may require additional work in the future, to address data gaps. It is incumbent upon the Army to finalize land use at Camp Ravenna as soon as possible, otherwise additional work and schedule slippage may result.

This document was reviewed by personnel from Ohio EPA's Division of Environmental Response and Revitalization (DERR). Ohio EPA has determined that all required text changes have been made to this document and considers it to be final and approved, providing there are no additional comments from the Army or Ohio Army National Guard.

MR. MARK PATTERSON RAVENNA ARMY AMMUNITION PLANT FEBRUARY 21, 2012 PAGE 2

Kennfert

If you have any questions, please call me at (330) 963-1292.

Sincerely,

Kevin Palombo Project Coordinator

Division of Environmental Response and Revitalization

KP/kss

cc: Eileen Mohr, Ohio EPA, NEDO, DERR

ec: Katie Tait, OHARNG RTLS
LTC Ed Meade, OHARNG RTLS
Glen Beckham, USACE Louisville
Mark Nichter, USACE Louisville

Nancy Zikmanis, Ohio EPA, NEDO, DERR

Mark Eldridge, AEC Kim Harriz, NGB Al Easterday, ECC

Todd Fisher, Ohio EPA, NEDO, DERR

Christy Esler, VISTA

Tom Chanda, USACE Louisville Eric Cheng, USACE Louisville

Bob Guthrie, Management Solutions, LLC

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 1 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response					
	Ohio EPA (Kevin Palombo)									
O-1	Report Documentation Page, Line 4. Title and Subtitle		The word "Investigation" was omitted from the title.	Line 2 of the title should read, "2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites.	The title in Block 4 of Form 298 will be revised as noted in the comment.					
O-2	Page iii Acronyms and Abbreviations		First line of Acronyms ACM, spelling of "asbestos."	Correct spelling of 'Asbestos."	The spelling will be corrected.					
O-3	Page i, line 138		Table of Contents, Section 7.0, Record Management should read, "Records" Management.	Make spelling change, "Record" to "Records."	The recommendation as noted in the comment will be made to the Table of Contents (TOC), Section 7.0 title.					
0-4	Page ii, Table of Contents, line 144, Section 8.1 and page 41, Section 8.1, line 1203		Section 8.1, title reads, "Government Furnished Resources" in the TOC and "Army Furnished Resources" on page 41.	Correct the inconsistency.	The TOC, Section 8.1 title will be revised to "Army-Furnished Resources". Note that TOC Section 8.2 title will be changed to "Contractor-Furnished Resources".					
O-5	Page ii, Table of Contents		The list of Tables and Figures in the Table of Contents should provide page numbers.	Provide page numbers for Figures and Tables.	Page numbers will be provided for Figures and Tables in the TOC.					
O-6	General		Tables1-1 and 1-2 are located in a "tabbed" section following the	For consistency, Ohio EPA recommends including Figures 1-1	Figures 1-1 and 1-2 will be inserted into Section 1.0 Introduction of the Project					

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011 OHARNG Comments - Received 1 December 2011 Ohio EPA Comments - Received 3 January 2012

Page 2 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
			text and Figures 2-1 and 3-1 are included in the text. All Tables are located within the text.	and 1-2 within the text.	Management Plan.
()_ /	Figures Tab. Figure 1-2		Figure 1-2 does not have a scale.	Provide a scale on Figure 1-2.	A scale will be provided in Figure 1-2.
O-8	Page 14, line 559		Spelling of the word, "Containment."	Make the spelling change.	The spelling will be corrected.
O-9	Page 8, line 333		Describes sections of the Project Management Plan. Section 2.0 is titled Project Management "Team." The actual PMP title for Section 2.0 is Project Management "Organization."	Stay consistent with the PMP title for Section 2.0. Change line 333 to read, "Project Management Organization."	The second bullet in Section 1.4 Project Management Plan Organization will be revised as follows: "Section 2.0 – Project Management Team Organization"
O-10	Page 9, line 375		The section describing CC-RVAAP-70 East Classification Yard does not provide information on historical spills or potential releases.	Provide info on historic spills or potential releases from the East Classification Yard.	The text within CC-RVAAP-70 East Classification Yard section will be revised as follows: "The Ravenna facility was originally equipped with east and west classification yards during the facility's early operational years. The classification yards were used for the switching and maintenance of railroad cars and locomotives. The east classification yard is located east of Load Line 1 and the

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 3 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
					Main Defense Logistics Agency (DLA) Ore Storage Area in close proximity to the intersection of Ramsdell Road and Irons Road. The rail east classification yard Areas of Concern reportedly consists of 18 tracks with a 750 car capacity, and 3 Hi X tracks with a 120 car capacity, which also included the Building 47-40 (Round House, still exists but is not actively used), the former herbicide storage shed (former Building 47-60), the containment area for former AST (documented spill of No. 5 fuel oil occurred within the containment area in 1986), and an outdoor open wash rack south of the East Classification Yard (north of Butts-Kistler Road) main track area. This yard was equipped with a locomotive repair building (Round House) and a herbicide storage shed along Tracks # 47 and 48. A railroad track complex is located east of the CR site and is currently utilized by the OHARNG."
O-11	Page 14, line 564		Site Related Constituents (SRC)	Include this acronym (SRC) in the Acronyms and Abbreviations list.	The acronym "SRC" will be added to the Acronyms and Abbreviations list.
O-12	Page 34, line		Electronic Data Deliverable	Include this acronym in the Acronym	The acronym "EDD" will be included in

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 4 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
	1003		(EDD)	and Abbreviation List	the Acronyms and Abbreviations list.
O-13	Page 34, line 1029		Reference to UTM coordinate system datum WGS84 is unclear.	Provide a clarifying or descriptive sentence describing what the WGS84 datum refers to.	The following sentences will be added after the eighth sentence in Section 5.2: "Datum WGS84 is the World Geodetic System (WGS) of 1984 and it is the reference frame used by the U.S. Department of Defense (DoD) and is defined by the National Geospatial-Intelligence Agency (NGA). WGS84 is used by DoD for all its mapping, charting, surveying, and navigation needs, including its GPS "broadcast" and "precise" orbits." The following acronyms will be added to the Acronyms and Abbreviations list; WGS, DOD, NGA, and GPS.
O-14	Page 9, line 375		Accident Prevention Plan (APP)	Include this acronym in the Acronym and Abbreviation List.	The acronym "APP" will be included in the Acronyms and Abbreviations list.
			Ohio Army N	National Guard (Katie Tait)	
1	Pg 3, Line 254		"BRACD that has, among other responsibilities, the task of overseeing inactive status installation."		The referenced sentence will be revised as follows: "These 1,280 acres consist of former industrial facilities that are being

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 5 of 9

_	1	_	T	<u> </u>	Page 5 of 9
Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
			While this statement is true of BRACD, recommend deleting it as it implies that this installation is not actively used which is incorrect. Please delete this portion (above) from the sentence.		remediated and managed by the Base Realignment and Closure Division (BRACD) that has, among other responsibilities, the task of overseeing inactive status installations. "
2	Pg 8, Line 353		Change 'Building 28' to 'Building 28-28'.		The sentence will be revised as follows: "The west electrical substation comprises an area of approximately 3,000 square ft., which includes the land around Building 28-28 and the surrounding land formerly used as"
3	Pg 9, Line 366		Insert 'former' prior to 'Plant'.		The sentence will be revised as follows: "The fire station was located in the former Plant Administration Area in"
4	Pg 9, Line 372		"The area of potential impact includes the ground surface behind the former building location." Please be clear in this statement and Section, that the area to be investigated (the AOC), is the area north/northwest of the former building location, not the former		The last sentence for CC-RVAAP-69 Building 1048 Fire Station will be revised as follows: "The area of potential impact at this AOC includes the ground surface, located to the north – northwest of behind the former building location."

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 6 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment building footprint.	Recommendation	Response
5	Pg 9, Line 375-384, East Classification Yard		It needs to be clear in this description what areas are included in the classification yard AOC. This is especially important because the tracks (east of the buildings) are still utilized by the OHARNG and are not part of the AOC.		Please note that this referenced text, in Section 1.5 Compliance Restoration Sites Operational History/Description, is intended to provide a brief description of the CR site and its history. Based on the Draft HRR Report issued on 3 October 2011, ECC will revised the text within CC-RVAAP-70 East Classification Yard section as follows: "The Ravenna facility was originally equipped with east and west classification yards during the facility's early operational years. The classification yards were used for the switching and maintenance of railroad cars and locomotives. The east classification yard is located east of Load Line 1 and the Main Defense Logistics Agency (DLA) Ore Storage Area in close proximity to the intersection of Ramsdell Road and Irons Road. The rail east classification yard Areas of Concern reportedly consists of 18 tracks with a 750 car capacity, and 3 Hi-X tracks with a 120 car capacity, which also included the

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 7 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
					Building 47-40 (Round House, still exists but is not actively used), the former herbicide storage shed (former Building 47-60), the containment area for former AST (documented spill of No. 5 fuel oil occurred within the containment area in 1986), and an outdoor open wash rack south of the East Classification Yard (north of Butts-Kistler Road) main track area. This yard was equipped with a locomotive repair building (Round House) and a herbicide storage shed along Tracks # 47 and 48. A railroad track complex is located east of the CR site and is currently utilized by the OHARNG."
6	Pg 9, Line 391		"The OHARNG future land use designation is Training Area D." Why is this included when no other AOC descriptions include end use. Please delete.		The following sentence will be deleted from this section: " The OHARNG future land use designation is Training Area D."
7	General – FW USTs and FW Coal Storage Sites		In general throughout this project, we need to incorporate and be cognizant of the previous work that was already conducted by SAIC. SAIC recommended		ECC is aware of previous work at CC-RVAAP-72 and CC-RVAAP-73, as well as other sites at RVAAP by other contractors. ECC works with our assigned USACE technical representative to

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 8 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
			No Further Action for 43 of 58 UST sites and 15 of the coal storage sites.		obtain previous reports, data, and other information generated by other contractors or the USACE at the sites ECC is responsible for under the 2011 PBA Contract.
8	Pg 14, Line 567		"Potential SRCs for the sanitary sewer system at the former Hospital Building are VOCs, SVOCs, and TAL metals." How is the facility-wide sewer system information being tied into this as those lines have already been investigated by SAIC?		ECC was recently made aware of SAIC's facility-wide sewer remedial investigation report. Our understanding is that this report is in Preliminary Draft stage. Once ECC receives a copy of this report, the information will be incorporated into the Historical Records Review (HRR) Report for CC-RVAAP-83 and other sites, as appropriate.
9	Pg 14, Line 568		"Asbestos-containing material (ACM) was also mentioned as a potential SRC during the site visit." Why is asbestos a potential SRC for this site? All ACM was properly removed prior to building demolition activities. Therefore, I think it can be addressed in the RI by stating that it was properly removed and that there is no visual evidence		The following sentence will be deleted from this section: "Asbestos Containing Material (ACM) was also mentioned as a potential SRC during the site visit."

RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE

ECC PROJECT MANAGEMENT PLAN - Submitted 17 November 2011

OHARNG Comments – Received 1 December 2011 Ohio EPA Comments – Received 3 January 2012

Page 9 of 9

Comment Number	Page No. / Line No.	New Page or Sheet	Comment	Recommendation	Response
			of dumping or asbestos at the site; but it should not be a specific SRC just because the building once contained asbestos. Please delete this statement. Will be addressed in the RI as indicated above.		
10	Section 3.0 Project Coordination		Please also include a subsection stating that ECC will also coordinate access with the OHARNG as some most of the sites are on OHARNG property and some are used for training purposes.		Subsection 3.5 entitled "Ohio Army National Guard" will be added to the PMP. The following text will be inserted into Section 3.5: "ECC will coordinate all site access with the Ohio Army National Guard."