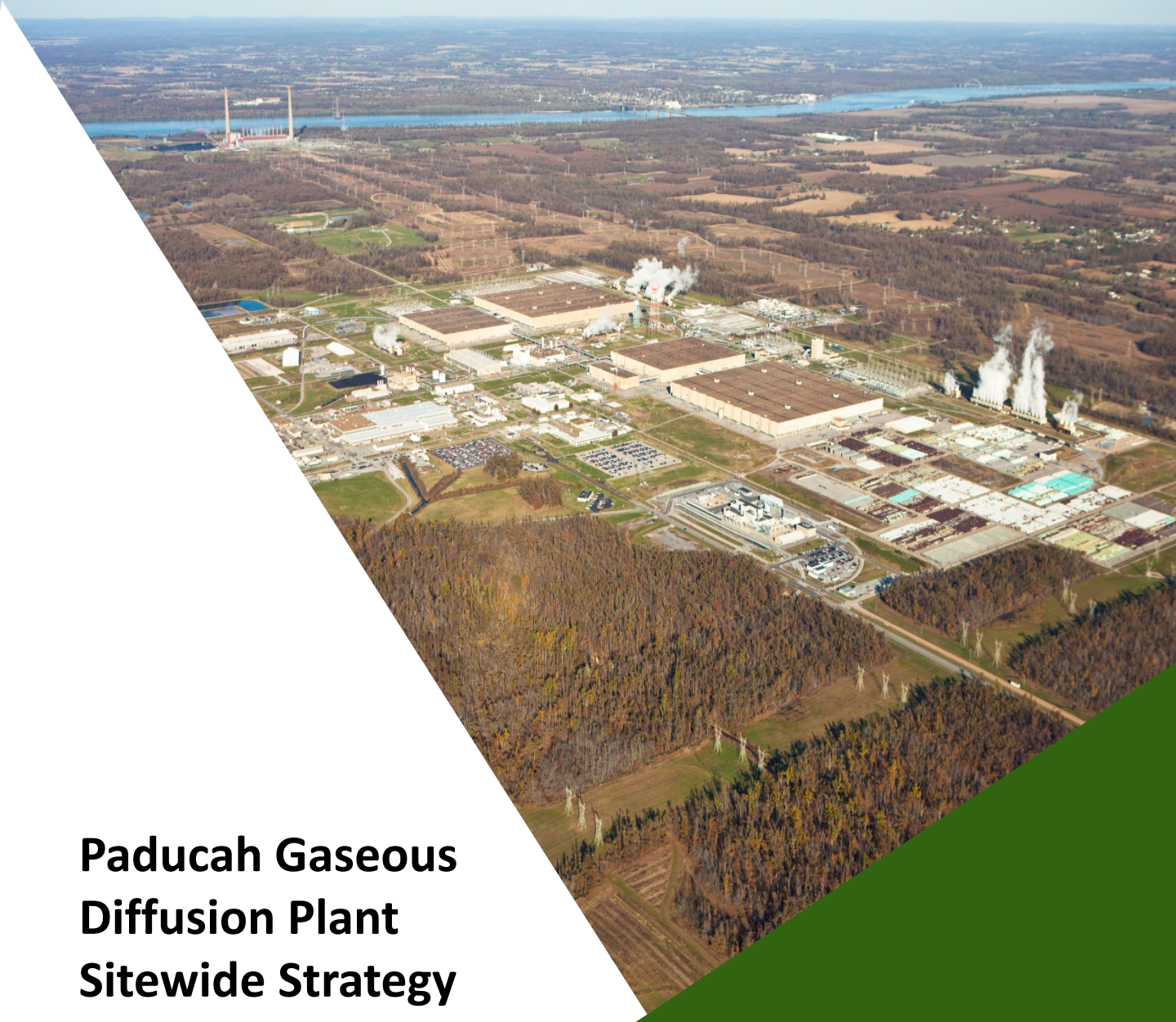


Paducah Gaseous Diffusion Plant Sitewide Strategy Facility Background Information

FPDP-RPT-0021

May 2016

U.S. DEPARTMENT OF ENERGY

PREFACE

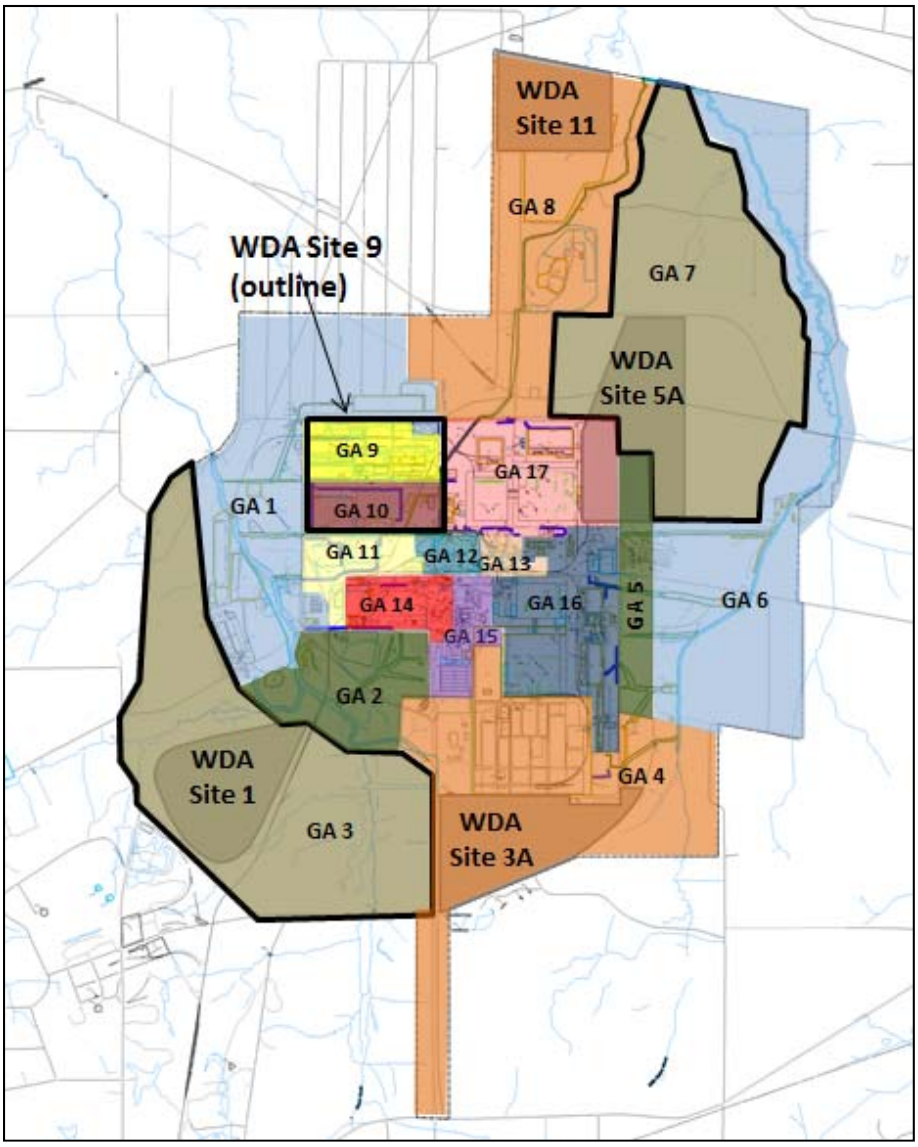
This Sitewide Strategy Facility Background Information document is an overview document that has been prepared for internal use and for information only. This information is not meant to supersede information presented in other approved documents prepared under the Federal Facility Agreement.

The information presented herein is not to be used for decision making.

INTRODUCTION

This Sitewide Strategy Facility Background Information is an overview document that summarizes the state of the Paducah Gaseous Diffusion Plant (PGDP) facility as of April 2015. This document is provided as the first step in a graded approach to support sitewide planning and presents high-level capsule comments on the solid waste management units (SWMUs)/facilities. As a summary document prepared with information available as of April 2015, additional evaluation of the information concerning individual parcels will be needed to support decision making. The extent of the additional evaluation will depend upon the plans for that parcel, the age of the documents (and the age of the data used in preparing the documents), the availability of confirming information from other projects, the potential for impacts to have occurred subsequent to document preparation, and process knowledge.

The maps and information presented herein include listings of the current PGDP structures and SWMUs and areas of concern (AOCs) that may require additional action. A master SWMU list is provided in the following pages to summarize the current information about each SWMU. Areas that are SWMUs/AOCs that have a "No Further Action" status are not called out in this compilation.



METHODOLOGY

The property under control of the U.S. Department of Energy (DOE) was divided into 17 geographical areas (GAs) to focus better planning efforts for the DOE property. GAs are artificial boundaries established for the purpose of planning and evaluating areas for footprint reduction, deactivation and decommissioning, and remediation integration. This document originally was submitted in April 2015 and was prepared using the maps considered to be current at the time. The current facility map was divided into GAs, and the individual GA maps were compared to the current facility map, current SWMU map, and current outfall map to generate the new maps presented in the document, including identifying the facilities, SWMUs, and outfalls present. The individual GA maps also were compared to current aerial photographs from Google Earth and discrepancies among the maps resolved.

Although the gaseous diffusion plant no longer is operating, many of the facilities associated with the historical PGDP operations remain. Current operational activities are limited to depleted uranium storage and processing with required support. As a result, facility operations referenced in this document generally are historical or associated with ongoing decontamination and decommissioning and environmental remediation activities.

The information on individual SWMUs has been taken from each relevant SWMU Assessment Report and the Soils Operable Unit Work Plan. To support additional evaluation of the information presented, the current SWMU master list is provided. Additional reference information that may assist in review of this document is summarized in the following table. In addition, Tables ES1, ES2, and ES3 from the Sitewide Risk Assessment (DOE 2003) are provided; these summarize the areas with the largest potential for risk.

No facilities or SWMUs/AOCs are located completely within two large GAs (GA 3 and GA 7); however, GA 7 is located over areas of contaminated groundwater. “Contaminated” means the presence of constituents above naturally occurring levels or above other appropriate benchmarks.

The maps include a notation showing which DOE Contractor is the designated facility owner (REM: Remediation Contractor; DEA: Deactivation Contractor; INF: Infrastructure Contractor; DUF_6: Depleted Uranium Hexafluoride Conversion Facility Contractor).

SWMUs/AOCs located off DOE property are not included in this compilation. SWMUs/AOCs that cross GA boundaries such as the groundwater plumes, surface water ditches, underground storm sewers, etc., also are not included because they will need to be addressed independently subsequent to the remediation of the rest of the facility (i.e., after the potential for recontamination has been minimized).

COMPANION REFERENCES TO THE SITEWIDE STRATEGY FACILITY BACKGROUND INFORMATION

Addendum to the Work Plan for the Soils Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Remedial Investigation 2, Sampling and Analysis Plan, DOE/LX/07-0120&D2/R2/A1/R1,U.S. Department of Energy, Paducah, KY.

Addendum to the Work Plan for the Soils Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Remedial Investigation 2, Sampling and Analysis Plan, DOE/LX/07-0120&D2/R2/A1/R1, U.S. Department of Energy, Paducah, KY

Addendum to the Work Plan for the Soils Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Remedial Investigation 2, Sampling and Analysis Plan, DOE/LX/07-0120&D2/R2/A1/R1, U.S. Department of Energy, Paducah, KY, 2014.

Cultural Resource Survey for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, BJC/PAD-688/R1, Bechtel Jacobs Company LLC, Kevil, KY, 2006.

Current SWMU Assessment Reports

DOE Paducah Site Tour Book, Paducah Gaseous Diffusion Plant, Industry Workshop, U.S. Department of Energy, Paducah, KY, July 2012.

Five-Year Review of Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-1289&D2/R1, U.S. Department of Energy, Paducah, KY, 2014.

Paducah Site Map Showing Current SWMU Locations, Figure No. sk100r23.mxd, LATA Environmental Services of Kentucky, LLC, Kevil, KY, January 31, 2014

PPPO Site Map, Lease Map, Rev. 6

Record of Decision for Solid Waste Management Units 1, 211-A, 211-B, and Part of 102 Volatiles Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0365&D2/R1, U.S. Department of Energy, Paducah, KY, 2012.

Removal Action Report for Contaminated Sediment Associated with the Surface Water Operable Unit (On-Site) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0357&D2, U.S. Department of Energy, Paducah, KY, 2011.

Report for Environmental Audit Supporting Transition of the Gaseous Diffusion Plants to the United States Enrichment Corporation, DOE/OR/1087, U.S. Department of Energy, Paducah, KY, 1993.

Site GIS System and Google Earth

Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision FY 2015, DOE/LX.07-1301&D2/R1 U.S. Department of Energy, Paducah, KY, 2015.

Site-Wide Risk Assessment Model and Environmental Baseline for the Paducah Gaseous Diffusion Plant Paducah, Kentucky, DOE/OR/07-2104&D0*, U.S. Department of Energy, Paducah, KY, 2003.

Soils Operable Unit Remedial Investigation 2 Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2306&D1, U.S. Department of Energy, Paducah, KY, 2015.

Soils Operable Unit Remedial Investigation Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0358&D2/R1, U.S. Department of Energy, Paducah, KY, 2013.

Work Plan for the Soils Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX.07-0129&D1, U.S. Department of Energy, Paducah, KY, 2009.

*Tables ES.1, ES.2, and ES.3 from this document are provided following the SWMU Master List

SUMMARY MASTER LIST OF SWMUS

Summary Master List of SWMUs

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
1	C-747-C Oil Landfarm	GWOU + Soils OUs	SW Plume Sources/ Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
2	C-749 Uranium Burial Ground	BGOU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
3	C-404 Low Level Radioactive Waste Burial Ground	BGOU + TSD	Remedial/ Permitted	Requires RFI & Permitted	A-3 & A-5	N/A	8/24/1987	3/31/2003		
4	C-747 Contaminated Burial Ground	BGOU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	6/18/2007	8/24/1987 (SAR Date)	Removed from the GWOU—SW Plume (via 7/19/07 letter). This SWMU also contains the C-748-B sub-area.
5	C-746-F Classified Burial Ground	BGOU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
6	C-747-B Burial Ground	BGOU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
7	C-747-A Burial Ground	BGOU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	12/18/2009	8/24/1987 (SAR Date)	
8	C-746-K Inactive Sanitary Landfill	Final Comprehensive Sitewide OU	N/A	Record of Decision	A-1, A-5 & A-6	N/A	8/24/1987	2/10/1992	WAGs 1 & 7 ROD: 2/98	
9	C-746-S Residential Landfill	BGOU + TSD	Remedial/ Permitted	Permitted	A-1 & A-5	N/A	8/24/1987	9/17/1999	7/31/2000 (Permitted)	
10	C-746-T Inert Landfill	BGOU + TSD	Remedial/ Permitted	Permitted	A-1 & A-5	N/A	8/24/1987	9/17/1999	7/31/2000 (Permitted)	
11	C-400 Trichloroethylene Leak Site	GWOU + Post-GDP (Groundwater Sources OU)	C-400 Action/ C-400 Residuals	Record of Decision	A-1 & A-5	N/A	8/24/1987	N/A	C-400 ROD: 7/05	Removed from the Soils OU during a 1/19/12 CRS Meeting
12	C-747-A UF_4 Drum Yard	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	3/16/2012	4/24/2012	
13	C-746-P Clean Scrap Yard	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	12/31/2007 7/22/2011	8/24/1987 (SAR Date)	Added to the BGOU (via 1/31/08 letter) Removed from SWOU—Scrap Metal (via 1/11/08 letter)
14	C-746-E Contaminated Scrap Yard	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987		8/24/1987 (SAR Date)	
15	C-746-C Scrap Yard	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987		8/24/1987 (SAR Date)	
16	C-746-D Classified Scrap Yard	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
17	C-616-E Sludge Lagoon [Active]	Post-GDP (Lagoons & Ditches OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
18	C-616-F Full Flow Lagoon [Active]	Post-GDP (Lagoons & Ditches OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
19	C-410-B HF Neutralization Lagoon	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
20	C-410-E HF Emergency Holding Pond	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A		

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
21	C-611-W Sludge Lagoon [Active]	Post-GDP (Lagoons & Ditches OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
22	C-611-Y Overflow Lagoon [Active]	Post-GDP (Lagoons & Ditches OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
23	C-611-V Lagoon [Active]	Post-GDP (Lagoons & Ditches OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
24	C-750-D UST	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	11/23/1999	Note: NFA Granted by UST Program
25	C-750 1,000-Gallon Waste Oil Tank (UST)	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	6/20/1994	Note: NFA Granted by UST Program
26	C-400 to C-404 Underground Transfer Line	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
27	C-722 Acid Neutralization Tank [Active]	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
28	C-712 Laboratory Equalization Tank [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
29	C-746-B TRU Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	3/11/2005		
30	C-747-A Burn Area	BGOU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	12/18/2009	8/24/1987 (SAR Date)	
31	C-720 Compressor Pit Water Storage Tank	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
32	C-728 Clean Waste Oil Tank [Active]	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
33	C-728 Motor Cleaning Facility [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
34	C-746-M PCB Waste Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
35	C-337 PCB Waste Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
36	C-337 PCB Waste Staging Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
37	C-333 PCB Waste Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
38	C-615 Sewage Treatment Plant [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
39	C-746-B PCB Waste Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	3/11/2005		
40	C-403 Neutralization Tank	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
41	C-410-C Neutralization Tank	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A		
42	C-616 Chromate Reduction Facility [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	12/6/1991	12/18/1991	
43	C-746-B Waste Chemical Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
44	C-733 Hazardous Waste Storage Area	TSD	Permitted	Permitted	A-3	N/A	8/24/1987	N/A		
45	C-746-R Waste Solvent Storage Area	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
46	C-409 Hazardous Waste Pilot Plant	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	9/26/1997	
46	C-746-Q Hazardous and Low-Level Mixed Waste Storage Facility	TSD	Permitted	Permitted	A-3	N/A	8/24/1987	N/A	Permitted: / /	This is SWMU 46 A
47	C-400 Technetium Storage Tank Area	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
48	Gold Dissolver Storage Tank (DMSA C400-03)	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	6/14/2010	7/8/2010	This SWMU was granted NFA on 3/24/08, but remained an active storage area. It was granted "final" NFA on 7/7/10
49	C-400-B Waste Solution Storage Tank	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	9/26/1997	
50	C-400-C Nickel Stripper Evaporation Tank	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	9/26/1997	
51	C-400-D Lime Precipitation Tank	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
52	C-400 Waste Decontamination Solution Storage Tanks	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
53	C-400 NaOH Precipitation Unit	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
54	C-400 Degreaser Solvent Recovery Unit	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	6/14/2010	7/8/2010	This SWMU is listed as NFA, but no paperwork to that effect has been found. Therefore, a Revised SAR was submitted on 6/25/10 and an official NFA granted on 7/7/10.
55	C-405 Incinerator	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
56	C-540-A PCB Waste Staging Area	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
57	C-541-A PCB Waste Staging Area	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
58	North-South Ditch (Outside)	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	7/30/2004 1/4/2005	8/24/1987 (SAR Date)	
59	North-South Ditch (Inside)	SWOU	North-South Diversion Ditch	Record of Decision	A-1, A-5 & A-6	N/A	8/24/1987	N/A	N-S Diversion Ditch ROD: 8/02	
60	C-375-E2 Effluent Ditch (KPDES 002) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	7/30/2004 1/4/2005	8/24/1987 (SAR Date)	
61	C-375-E5 Effluent Ditch (KPDES 013) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
62	C-375-S6 SW Ditch (KPDES 009) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
63	C-375-W7 Oil Skimmer Ditch (KPDES 008) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	4/7/2003 7/30/2004	8/24/1987 (SAR Date)	
64	Little Bayou Creek	SWOU	Remedial Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
65	Bayou Creek	SWOU	Remedial Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
66	C-375-E3 Effluent Ditch (KPDES 010) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	7/30/2004	8/24/1987 (SAR Date)	
67	C-375-E4 Effluent Ditch (C-340 Ditch) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	7/30/2004 1/4/2005	8/24/1987 (SAR Date)	
68	C-375-W8 Effluent Ditch (KPDES 015) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	7/30/2004	8/24/1987 (SAR Date)	
69	C-375-W9 Effluent Ditch (KPDES 001) [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	7/30/2004	8/24/1987 (SAR Date)	
70	C-333-A Vaporizer [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
71	C-337-A Vaporizer [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
72	C-200 Underground Gasoline Tanks	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	11/23/1999	Note: NFA Granted by UST Program
73	C-710 Underground Gasoline Tanks	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A	2/19/2002	Note: NFA Granted by UST Program
74	C-340 PCB Transformer Spill Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
75	C-633 PCB Spill Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
76	C-632-B Sulfuric Acid Storage Tank	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
77	C-643-B Sulfuric Acid Storage Tank	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
78	C-420 PCB Spill Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
79	C-611 PCB Spill Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
80	C-540-A PCB Spill Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
81	C-541-A PCB Spill Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
82	C-531 Switchyard [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
83	C-533 Switchyard [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
84	C-535 Switchyard [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
85	C-537 Switchyard [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
86	C-631 Pump House and Cooling Tower [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
87	C-633 Pump House and Cooling Tower [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
88	C-635 Pump House and Cooling Tower [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
89	C-637 Pump House and Cooling Tower [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
90	C-720 Underground Petroleum Naphtha Pipe	N/A	N/A	No Further Action	A-1 & A-5	N/A	Not Submitted			

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
91	UF_6 Cylinder Drop Test Pit	Final Comprehensive Sitewide OU	N/A	Record of Decision	A-1, A-5 & A-6	N/A	8/24/1987	N/A	WAG 27 ROD: 7/98	
92	Fill area for dirt from C-420 PCB Spill Site	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
93	Concrete Disposal Area East of Plant Security Area	SWOU	Remedial Action	Requires RFI	A-1 & A-5	N/A	8/24/1987	N/A	8/24/1987 (SAR Date)	
94	KOW Trickling Filter and Leach Field	Corps of Engineers (No OU)	N/A	Requires RFI (COE)	A-1 & A-7	N/A	8/24/1987	N/A	8/11/1992	Transferred to COE Responsibility (No OU) (via COE letter Dated 3/13/96)
95	KOW Burn Area	Corps of Engineers (No OU)	N/A	Requires RFI (COE)	A-1 & A-7	N/A	8/24/1987	N/A	8/11/1992	Transferred to COE Responsibility (No OU) (via COE letter dated 3/13/96)
96	C-333 Cooling Tower Scrap Wood Pile	N/A	N/A	No Further Action	A-2	N/A	8/24/1987	N/A		
97	C-601 Diesel Spill	SWOU	Removal Action	Requires RFI	A-1 & A-5	N/A	11/20/1991	N/A	11/20/91 (SAR Date)	
98	C-400 Basement Sump	D & D OU	GDP	Requires RFI	A-1 & A-5	N/A	11/20/1991	N/A	12/13/1991	
99	C-745 Kellogg Building Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	11/20/1991	10/29/2003	11/20/91 (SAR Date)	
100	Fire Training Area	Final Comprehensive Sitewide OU	N/A	Record of Decision	A-1, A-5 & A-6	N/A	11/20/1991	N/A	WAGs 1 & 7 ROD: 2/98	
101	C-340 Hydraulic System	D & D OU	Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	N/A	11/20/1991	N/A		
102	Plant Storm Sewer [Active]	GWOU + SWOU	SW Plume Sources/ Removal Action	Requires RFI	A-1 & A-5	N/A	11/20/1991	N/A	11/20/91 (SAR Date)	
103	Concrete Rubble Pile (1)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
104	Concrete Rubble Pile (2)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
105	Concrete Rubble Pile (3)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
106	Concrete Rubble Pile (4)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
107	Concrete Rubble Pile (5)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
108	Concrete Rubble Pile (6)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
109	Concrete Rubble Pile (7)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
110	Concrete Rubble Pile (8)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
111	Concrete Rubble Pile (9)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
112	Concrete Rubble Pile (10)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
113	Concrete Rubble Pile (11)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
114	Concrete Rubble Pile (12)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
115	Concrete Rubble Pile (13)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
116	Concrete Rubble Pile (14)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
117	Concrete Rubble Pile (15)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
118	Concrete Rubble Pile (16)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
119	Concrete Rubble Pile (17)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
120	Concrete Rubble Pile (18)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
121	Concrete Rubble Pile (19)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
122	Concrete Rubble Pile (20)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A		
123	Concrete Rubble Pile (21)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
124	Concrete Rubble Pile (22)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
125	Concrete Rubble Pile (23)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
126	Concrete Rubble Pile (24)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
127	Concrete Rubble Pile (25)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
128	Concrete Rubble Pile (26)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	9/26/1997	
129	Concrete Rubble Pile (27)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
130	C-611 550-Gallon UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	12/6/1996	UST C-611-1
131	C-611 50-Gallon UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	12/6/1996	UST C-611-2
132	C-611 2,000-Gallon Oil UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	12/6/1996	UST C-611-4
133	C-611 (unknown size) Grouted UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	12/6/1996	UST C-611-5
134	C-611 1,000-Gallon Diesel/Gasoline Tank	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	12/6/1996	UST C-611-3
135	C-333 PCB Soil Contamination (North Side)	Soils OU	Remedial	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
136	C-740 TCE Spill Site	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A		
137	C-746-A Inactive PCB Transformer Sump Area	Soils OU + D & D OU	Remedial/ GDP	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
138	C-100 Southside Berm	Soils OU	Remedial	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	N/A	12/13/1991	
139	C-746-A1 UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	11/29/2005	Note: NFA Granted by UST Program
140	C-746-A2 UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	12/19/1996	The Final SER for WAG 15 Reported that this UST did not exist (used as the NFA Date)
141	C-720 Inactive TCE Degreaser	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	8/11/1992	RCRA Closure started 1992, finished in 1994

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
142	C-750-A 10,000-Gallon Gasoline UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	3/25/1999	Note: NFA Granted by UST Program
143	C-750-B 10,000-Gallon Diesel UST	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	3/25/1999	Note: NFA Granted by UST Program
144	C-746-A Hazardous and Mixed Waste Storage Facility	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	7/26/2011	10/10/2011	Permitted via Mod #2 on 10/30/1992 and granted Closure on 6/7/11.
145	Residential/Inert Landfill Borrow Area (P-Landfill)	BGOU	Remedial	Requires RFI	A-1 & A-5	8/28/1991	11/20/1991	9/17/1999	11/30/1999	
146	Concrete Rubble Pile (40)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
147	Concrete Rubble Pile (41)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
148	Concrete Rubble Pile (42)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
149	Concrete Rubble Pile (43)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
150	Concrete Rubble Pile (44)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
151	Concrete Rubble Pile (45)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
152	Concrete Rubble Pile (46)	N/A	N/A	No Further Action	A-2	8/28/1991	11/20/1991	N/A	1/19/1996	
153	C-331 PCB Soil Contamination (West)	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/8/1991	12/26/1991	N/A		
154	C-331 PCB Soil Contamination (Southeast)	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/8/1991	12/26/1991	N/A		
155	C-333 PCB Soil Contamination (West)	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/8/1991	12/26/1991	N/A	8/11/1992	
156	C-310 PCB Soil Contamination (West Side)	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/8/1991	12/26/1991	N/A		
157	KOW Toluene Spill Area	Corps of Engineers (No OU)	N/A	Requires RFI (COE)	A-1 & A-7	10/8/1991	12/26/1991	N/A	8/11/1992	Transferred to COE Responsibility (No OU) (via COE letter dated 3/13/96)
158	Chilled-Water System Leak Site	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/8/1991	12/26/1991	N/A	1/14/1991	
159	C-747-H3 Storage Pad [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	10/8/1991	12/26/1991	9/1/1992 7/2/2002 9/16/2002 3/11/2005	9/14/1992	
160	C-745 Cylinder Yard Spoils (PCB Soils)	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/29/1991	12/26/1991	N/A		
161	C-743-T-01 Trailer Site (Soil Backfill) [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	10/29/1991	12/26/1991	N/A		
162	C-617-A Sanitary Water Line (Soil Backfill) [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	10/29/1991	12/26/1991	N/A		
163	C-304 Building/HVAC Piping System (Soil Backfill)	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/29/1991	12/26/1991	N/A		
164	KPDES Outfall Ditch 017 Flume - Soil Backfill	D & D OU	GDP	Requires RFI	A-1 & A-5	10/29/1991	12/26/1991	N/A		

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
165	C-616-L Pipeline & Vault Soil Contamination [Active]	Soils OU	Remedial	Requires RFI	A-1 & A-5	11/22/1991	12/26/1991	N/A	1/14/1991	
166	C-100 Trailer Complex Soil Contamination (East Side) [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	11/22/1991	12/26/1991	N/A		
167	C-720 White Room Sump	D & D OU	GDP	Requires RFI	A-1 & A-5	2/19/1992	5/11/1992	N/A	6/17/1992	
168	KPDES Outfall Ditch 012 [Active]	SWOU	Removal Action	Requires RFI	A-1 & A-5	2/19/1992	5/11/1992	7/30/2004	6/17/1992	
169	C-410-E HF Vent Surge Protection Tank	Soils OU	Remedial	Requires RFI	A-1 & A-5	3/30/1992	6/8/1992	N/A	7/10/1992	
170	C-729 Acetylene Building Drain Pits	Soils OU	Remedial	Requires RFI	A-1 & A-5	7/16/1992	10/18/1992	N/A	10/21/1992	
171	C-617-A Lagoons [Active]	Post-GDP (Lagoons & Ditches OU) + D & D OU	N/A/ GDP	Requires RFI	A-1 & A-5	8/13/1992	10/29/1992	N/A	11/16/1992	
172	C-726 Sandblasting Facility [Active]	Soils OU + D & D OU + Soils and Slabs OU	Remedial/ GDP/ N/A	Requires RFI	A-1 & A-5	8/13/1992	10/29/1992	N/A	11/16/1992	
173	C-746-A Trash Sorting Facility	N/A	N/A	No Further Action	A-2	8/13/1992	10/29/1992	N/A	12/18/1992	
174	C-746-K Low-Level Storage Area	N/A	N/A	No Further Action	A-2	8/13/1992	10/12/1992	1/11/1993	2/22/1993	
175	Concrete Rubble Pile (28)	SWOU	Remedial Action	Requires RFI	A-1 & A-5	8/13/1992	10/29/1992	N/A	11/16/1992	
176	C-331 RCW Leak Northwest Side	Soils OU	Remedial	Requires RFI	A-1 & A-5	9/9/1992	11/17/1992	1/25/1993	12/10/1992	
177	C-331 RCW Leak East Side	Soils OU	Remedial	Requires RFI	A-1 & A-5	9/9/1992	11/17/1992	1/25/1993	12/10/1992	
178	C-724-A Paint Spray Booth	D & D OU	GDP	Requires RFI	A-1 & A-5	9/21/1992	11/17/1992	1/25/1993	12/10/1992	
179	Plant Sanitary Sewer System [Active]	D & D OU	GDP	Requires RFI	A-1 & A-5	9/21/1992	11/17/1992	1/25/1993	12/10/1992	
180	Outdoor Firing Range (WKWMA) [Active]	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/19/1992	1/6/1993	N/A	2/2/1993	
181	Outdoor Firing Range (PGDP) [Active]	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/19/1992	1/6/1993	N/A	2/2/1993	
182	Western Portion of Yellow Water Line	Corps of Engineers (No OU)	N/A	Requires RFI (COE)	A-1 & A-7	11/13/1992	2/8/1993	N/A	3/2/1993	Transferred to COE Responsibility (No OU) (via COE letter dated 3/13/96)
183	McGraw UST	D & D OU	DUF_6	Requires RFI	A-1 & A-5	11/13/1992	2/8/1993	N/A	3/2/1993	
184	Concrete Rubble Pile (29)	N/A	N/A	No Further Action	A-2	12/10/1992	3/2/1993	N/A	9/26/1997	
185	C-611-4 Horseshoe Lagoon	SWOU	Remedial Action	Requires RFI	A-1 & A-5	12/10/1992	3/2/1993	N/A	3/19/1993	
186	C-751 Fuel Facility	N/A	N/A	No Further Action	A-2	1/19/1993	4/7/1993	N/A	10/20/1993	
187	C-611 Septic System	N/A	N/A	No Further Action	A-2	1/19/1993	3/12/1993	N/A	10/20/1993	
188	C-333 Septic System	N/A	N/A	No Further Action	A-2	1/19/1993	3/12/1993	N/A	10/20/1993	
189	C-637 Septic System	N/A	N/A	No Further Action	A-2	1/19/1993	3/12/1993	N/A	10/20/1993	
190	C-337A Sewage Treatment Aeration Tank	N/A	N/A	No Further Action	A-2	1/21/1993	3/12/1993	N/A	10/20/1993	
191	C-333-A Sewage Treatment Aeration Tank	N/A	N/A	No Further Action	A-2	1/21/1993	3/12/1993	N/A	10/20/1993	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
192	C-710 Acid Interceptor Pit	D & D OU	GDP	Requires RFI	A-1 & A-5	3/11/1993	5/25/1993	10/3/1993	11/16/1993	
193	McGraw Construction Facilities (South-Side Cylinder Yards)	D & D OU	DUF_6	Requires RFI	A-1 & A-5	4/22/1993	7/6/1993	9/6/2002 2/20/2003 9/8/2003 12/28/10	7/26/1993	Transferred from the DUF_6 to the GDP D & D OU (via DOE letter dated 12/28/10) and returned to the DUF_6 during a 1/19/12 CRS Meeting
194	McGraw Construction Facilities (Southside)	Soils OU + D & D OU	Remedial/ DUF_6	Requires RFI	A-1 & A-5	4/22/1993	7/6/1993	8/28/2003	7/26/1993	
195	Curlee Road Contaminated Soil Mounds	Soils OU	Remedial	Requires RFI	A-1 & A-5	6/28/1993	9/16/1993	N/A	10/7/1993	
196	C-746-A Septic System	Soils OU	Remedial	Requires RFI	A-1 & A-5	7/15/1993	10/7/1993	N/A	10/29/1993	
197	Concrete Rubble Pile (30)	N/A	N/A	No Further Action	A-2	8/2/1993	10/28/1993	N/A	9/26/1997	
198	C-410-D Area Soil Contamination	D & D OU	GDP	Requires RFI	A-1 & A-5	12/20/1993	2/28/1994	9/13/1994	1/12/1995	
199	Big Bayou Creek Monitoring Station	SWOU	Remedial Action	Requires RFI	A-1 & A-5	5/11/1994	7/28/1994	N/A	1/5/1995	
200	Soil Contamination South of TSCA Waste Storage Facility	Soils OU	Remedial	Requires RFI	A-1 & A-5	10/31/1994	1/10/1995	N/A	2/21/1995	
201	Northwest Groundwater Plume	GWOU	Dissolved Phase	Record of Decision	A-1, A-5 & A-6	3/30/1995 (Mod #7)	7/21/1995	N/A	NW GW Plume ROD: 7/93	
202	Northeast Groundwater Plume	GWOU	Dissolved Phase	Record of Decision	A-1, A-5 & A-6	3/30/1995 (Mod #7)	7/21/1995	N/A	NE GW Plume ROD: 6/95	
203	C-400 Discard Waste System	D & D OU	GDP	Requires RFI	A-1 & A-5	3/13/1995	5/19/1995	8/18/1995	6/23/1995	
204	Dykes Road Historical Staging Area	Soils OU	Remedial	Requires RFI	A-1 & A-5	7/11/1995	12/28/1995 (Site Assessment Report)	N/A	1/26/1996	
205	Eastern Portion of Yellow Water Line	SWOU	Remedial Action	Requires RFI	A-1 & A-5	6/10/1996	8/29/1996	N/A	10/15/1996	
206	C-753-A Toxic Substance Control Act Waste Storage Building	N/A	N/A	No Further Action	A-2	1/27/1997	1/13/1997	7/2/2002 4/18/2006	3/7/1997	Addressed Under TSCA
207	C-752-A Environmental Restoration Waste Storage Building	TSD	Permitted	Permitted	A-3	1/27/1997	1/13/1997	3/11/2005	3/7/1997	
208	C-746-U Solid Waste Contained Landfill	TSD	Permitted	Permitted	A-2 & A-3	1/27/1997	1/16/1997	N/A	3/7/1997	This SWMU is Permitted
209	C-720 Compressor Shop Pit Sump	D & D OU	GDP	Requires RFI	A-1 & A-5	11/5/1998	10/26/1998	N/A	10/26/1998 (SAR Date)	
210	Southwest Groundwater Plume	GWOU	Dissolved Phase	Requires RFI	A-1 & A-5	6/18/1999	6/8/1999	N/A	6/18/1999 (SAR Date)	
211	C-720 TCE Spill Site Northeast (A)	GWOU + Soils OUs	SW Plume Sources/ Remedial	Requires RFI	A-1 & A-5	6/18/1999	6/8/1999	N/A	6/18/1999 (SAR Date)	This is SWMU 211 A
211	C-720 TCE Spill Site Southeast (B)	GWOU + Soils OUs	SW Plume Sources/ Remedial	Requires RFI	A-1 & A-5	6/18/1999	6/8/1999	N/A	6/18/1999 (SAR Date)	This is SWMU 211 B
212	C-745-A Radiological Contamination Area	Soils OU	Remedial	Requires RFI	A-1 & A-5	12/9/1999	12/1/1999	N/A	8/24/2000	

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SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
213	OS-02	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
214	OS-03	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	7/2/2002 12/21/2007	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
215	OS-04	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	2/11/2011	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
216	OS-05	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
217	OS-06	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	10/7/2003 3/1/2005 2/11/2011	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
218	OS-07	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/24/2004 3/1/2005 6/27/2008 3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
219	OS-08	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	6/27/2008 3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
220	OS-09	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	7/2/2002 3/1/2005 2/11/2011	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
221	OS-10	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
222	OS-11	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	7/2/2002 3/1/2005 3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
223	OS-12	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
224	OS-13	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
225	OS-14	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009 2/11/2011	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
226	OS-15	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	2/11/2011	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
227	OS-16	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	2/27/2004 3/1/2005 3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project. Closure Granted on 2/13/07.
228	OS-17	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
229	OS-18	Soils OU	Remedial	Requires RFI	A-1, A-4(a) & A-5	10/23/2000	12/1/2000	3/23/2009	12/1/2000 (SAR Date)	Formerly Associated with the DMSA Project
230	C-310-01	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
231	C-310-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/10/2003 12/21/2007 6/14/2010	7/8/2010	Closure Granted 2/13/07
232	C-310-03	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	

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SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
233	C-310-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
234	C-310-05		N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
235	C-331-01	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
236	C-331-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
237	C-331-03	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
238	C-331-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
239	C-331-05	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/23/2002 12/21/2007	3/24/2008	
240	C-331-06	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	2/20/2003 12/21/2007	3/24/2008	
241	C-331-07	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
242	C-331-08	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
243	C-331-09	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
244	C-331-10	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
245	C-331-11	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
246	C-331-12	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/24/2003 3/9/2004 6/27/2008 3/23/2009	4/24/2009	Closure Granted 3/25/08
247	C-331-13	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
248	C-331-14	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
249	C-331-15	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	7/2/2002 3/1/2005 6/27/2008 3/23/2009	4/24/2009	Closure Granted 2/13/07
250	C-331-16	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/3/2003 3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07
251	C-331-19	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
252	C-331-20	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
253	C-331-22	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
254	C-331-23	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	

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SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
255	C-331-24	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
256	C-333-01	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 3/25/08
257	C-333-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
258	C-333-03	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
259	C-333-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
260	C-333-05	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
261	C-333-06	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
262	C-333-07	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
263	C-333-08	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 10/8/07
264	C-333-09	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
265	C-333-10	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/1/2010	4/6/2010	
266	C-333-11	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
267	C-333-12	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
268	C-333-13	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	8/21/2002 3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
269	C-333-14	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
270	C-333-15	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	8/21/2002 3/15/2009 3/1/2010	4/6/2010	
271	C-333-16 (West)	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
272	C-333-16 (East)	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
273	C-333-17	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	8/21/2002 3/15/2009 3/1/2010	4/6/2010	
274	C-333-18	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
275	C-333-19	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
276	C-333-20	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
277	C-333-21	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	

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278	C-333-22	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
279	C-333-23	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
280	C-333-24	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
281	C-333-25	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
282	C-333-26	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	Closure Granted 3/12/10
283	C-333-27	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
284	C-333-28	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
285	C-333-29	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	
286	C-333-30	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	
287	C-333-31	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
288	C-333-34	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 6/14/2010	7/8/2010	Closure Granted 3/12/10
289	C-333-35	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/15/2009 3/1/2010	4/6/2010	Closure Granted 3/12/10
290	C-333-37	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
291	C-333-38	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
292	C-333-39	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
293	C-333-40	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
294	C-333-41	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 10/8/07
295	C-333-42	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/4/2005 1/28/2010	2/12/2010	Closure Granted 2/13/07
296	C-333-43	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/21/2003 3/9/2004 2/1/2005 3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07
297	C-335-01	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
298	C-335-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
299	C-335-03	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07

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300	C-335-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/2/2005 1/28/2010	2/12/2010	Closure Granted 2/13/07
301	C-335-05	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	12/21/2007 6/14/2010	7/8/2010	Closure Granted 2/13/07
302	C-335-06	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
303	C-335-07	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
304	C-335-08	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	12/21/2007 6/14/2010	7/8/2010	
305	C-335-09	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
306	C-335-11	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
307	C-335-12	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/11/2005 6/27/2008 3/23/2009	4/24/2009	Closure Granted 2/13/07
308	C-337-01	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
309	C-337-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
310	C-337-03	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
311	C-337-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
312	C-337-05	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
313	C-337-06	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
314	C-337-07	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
315	C-337-08	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
316	C-337-09	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
317	C-337-10	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
318	C-337-11	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
319	C-337-12	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
320	C-337-13	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
321	C-337-14	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
322	C-337-15	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
323	C-337-16	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
324	C-337-17	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	

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325	C-337-18	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
326	C-337-19	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	
327	C-337-20	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
328	C-337-21	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
329	C-337-23	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/28/2010	2/12/2010	
330	C-337-25	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/5/2005 3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 3/25/08
331	C-337-27	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
332	C-337-29	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
333	C-337-30	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
334	C-337-31	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/18/2009	4/24/2009	
335	C-337-32	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
336	C-337-33	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
337	C-337-34	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/2/2005 3/23/2009	4/24/2009	
338	C-337-35	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
339	C-337-36	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
340	C-337-37	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/24/2003 6/14/10	7/8/2010	
341	C-337-38	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	2/2/2005 3/23/2009	4/24/2009	
342	C-337-39	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	2/2/2005 3/23/2009	4/24/2009	
343	C-337-40	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
344	C-337-41	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
345	C-337-42	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 6/14/2010	7/8/2010	Closure Granted 5/8/07
346	C-337-43	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07
347	C-337-44	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
348	C-337-45	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/13/2005 3/31/2006 6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07
349	C-400-01	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/14/2010	7/8/2010	
350	C-400-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	1/26/2004 6/27/2008 3/23/2009	4/24/2009	Closure Granted 2/13/07
351	C-400-05	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	8/5/2002 12/20/2002 1/26/2004 3/1/2005 6/14/2010	7/8/2010	Closure Granted 2/13/07
352	C-400-06	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	6/27/2008 3/23/2009	4/24/2009	
353	C-400-07	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/1/2010	4/6/2010	Closure Granted 3/12/10
354	C-409-01	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
355	C-409-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	8/30/2002 12/21/2007 3/1/2010	4/6/2010	Closure Granted 3/12/10
356	C-720-01	DMSA	N/A	No Further Action	A-2	10/23/2000	12/1/2000	12/21/2007	3/24/2008	
357	C-720-02	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
358	C-720-03	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
359	C-720-04	DMSA	N/A	No Further Action	A-4(a)	10/23/2000	12/1/2000	3/23/2009	4/24/2009	
360	C-535	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/13/2004	1/4/2006	
361	C-727-90 Day Area	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	8/28/2007	
362	G-310-04	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	8/28/2007	
363	G-331-03	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
364	G-331-05	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
365	G-333-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
366	G-333-03	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
367	G-333-04	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
368	G-333-08	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
369	G-333-10	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
370	G-333-20	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
371	G-335-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/13/2004	1/4/2006	
372	G-337-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
373	G-337-03	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
374	G-337-13	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	9/11/2003	
375	G-337-14	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
376	G-337-15	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
377	G-337-22	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	1/4/2006	
378	G-340-01	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	N/A	1/9/2003	
379	G-340-03	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	N/A	1/9/2003	
380	G-340-04	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	N/A	1/9/2003	
381	G-340-05	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	N/A	1/9/2003	
382	G-340-06	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/28/2007	
383	G-400-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
384	G-400-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
385	G-409-25	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
386	G-410-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/28/2007	
387	G-416-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	6/15/2007	7/3/2007	
388	C-416 Decontamination Pad	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	2/19/2004	4/12/2004	
389	G-533-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
390	G-535-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
391	G-537-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/13/2004	1/4/2006	
392	G-540-A-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	
393	G-540-A-1-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	
394	G-541-A-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	2/23/2004	4/12/2004	
395	G-600-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	

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SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
396	G-611-U-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
397	G-612-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
398	G-612-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
399	G-612-A-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
400	G-635-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
401	G-710	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	1/4/2006	
402	G-710-04	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
403	G-710-20	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	1/4/2006	
404	G-710-24	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
405	G-720-22	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	
406	G-743-T-17-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
407	G-743-T-17-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
408	G-745-B-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
409	G-745-T-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	
410	G-746-G-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
411	G-746-G-1-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
412	G-746-G-2-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	11/1/2004	
413	G-746-G-3-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	11/1/2004	
414	G-746-F-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/4/2006	
415	G-746-S-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/28/2007	
416	G-746-X-01 (PCBs)	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
417	G-746-X-01 (Asbestos)	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	
418	G-748-B-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
419	G-752-C-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/28/2007	
420	G-752-C-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	3/8/2007	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
421	G-754-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/4/2006	
422	G-755-A-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	1/15/2003	1/28/2004	
423	G-755-C-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
424	G-755-T-07-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
425	G-755-T-08	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
426	G-755-T-2-3-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
427	G-755-T-3-1-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
428	G-755-T-3-2-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
429	S-310-04	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/13/2004 & 7/3/2007	8/28/2007	
430	S-331-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/4/2006	
431	S-333-12	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
432	S-335-09	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/13/2004	1/4/2006	
433	S-337-11	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
434	S-340-01	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	N/A	1/9/2003	
435	S-409-100	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
436	S-409-20	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
437	S-409-40	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
438	S-409-60	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
439	S-409-80	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	5/12/2003	
440	S-410-05	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/28/2007	
441	S-540-A-2-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
442	S-612-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	
443	S-709-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
444	S-709-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	6/29/2004	
445	S-710-05	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
446	S-710-06	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
447	S-710-09	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	1/4/2006	
448	S-710-16	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
449	S-710-18	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
450	S-710-32	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	1/4/2006	
451	S-710-41	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
452	S-710-44	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	12/23/2003	1/4/2006	
453	S-710-46	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	9/11/2003	
454	S-743-T-17-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	
455	S-755-T-16-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
456	S-755-T-16-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
457	S-755-T-16-03	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
458	S-755-T-2-3-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
459	S-755-T-3-1-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
460	S-755-T-3-2-01	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
461	S-755-T-3-2-02	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
462	S-755-T-3-2-03	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	1/28/2004	
463	C-746-A East End Smelter	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ GDP	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	7/3/2007	8/30/2007	
464	C-746-A West End Smelter	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	10/8/2002 7/3/2007	8/30/2007	
465	Yard Rubble Pile and Crushate Storage Area (G-Yard)	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/14/2009	
466	South of Dykes Road, Pond Area	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/14/2009	
467	Concrete Cylinder Holders Storage Area on WKWMA	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	8/14/2009	
468	Area Northwest of Outfall 015	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	2/14/2006	

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SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
469	C-745-J Yard	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	N/A	8/14/2009	
470	C-746-V Yard	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	7/3/2007	8/14/2009	
471	Outside C-746-B South Storage Area	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	N/A	8/14/2009	
472	C-746-B Pad	Post-GDP (Additional Burial Ground Sources OU)	N/A	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	3/18/2009 6/14/2010	6/14/2010 (Revised SAR)	This SWMU was granted NFA on 8/14/2009. After more information became available, this SWMU was moved to the (Post-GDP Additional BG Sources OU) in the 6/14/2010 Revised SAR.
473	C-746-B Pad, West	N/A	N/A	No Further Action	A-2	11/6/2000	1/19/2001	7/3/2007	8/28/2007	
474	West of Vortec Site	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	11/6/2000	1/19/2001	7/3/2007	8/14/2009	
475	C-745-G5-01 (Paint Enclosure)	N/A	N/A	No Further Action	A-2	12/5/2000	2/8/2001	N/A	2/14/2006	
476	Concrete Crusher	N/A	N/A	No Further Action	A-2	12/5/2000	2/8/2001	N/A	2/14/2006	
477	C-340 Metals Plant	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	4/19/2001	7/18/2001	9/14/2001 11/14/2001	8/15/2001	
478	C-410/420 Feed Plant	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	4/19/2001	7/18/2001	9/14/2001	8/15/2001	
479	C-204 Disintegrator Building	N/A	N/A	No Further Action	A-2	4/19/2001	7/18/2001	N/A	6/3/2002	
480	C-402 Lime House	Post-GDP (Soils & Slabs OU)	N/A	Requires RFI	A-1 & A-5	4/19/2001	7/18/2001	7/8/2003	1/17/2002	
481	C-410-A Hydrogen Holder	N/A	N/A	No Further Action	A-2	4/19/2001	7/18/2001	N/A	4/2/2002	
482	C-415 Feed Plant Storage Building	D & D OU	GDP	Requires RFI	A-1 & A-5	4/19/2001	7/18/2001	N/A	8/27/2002	
483	Nitrogen Generating Facilities	Soils OU + Post-GDP (Soils & Slabs OU)	Remedial/ N/A	Requires RFI	A-1 & A-5	4/19/2001	7/18/2001	2/12/2003 6/18/2007	6/29/2007	Transferred from the D & D OU to the Soils OU (via 6/29/07 letter)
484	C-611-M Storage Tank	N/A	N/A	No Further Action	A-2	4/19/2001	7/18/2001	N/A	8/30/2002	
485	C-611-N Sanitary Water Storage	N/A	N/A	No Further Action	A-2	4/19/2001	7/18/2001	N/A	2/18/2002	
486	Rubble Pile WKWMA	Soils OU	Remedial	Requires RFI	A-1 & A-5	4/30/2001	6/15/2001	N/A	8/14/2009	
487	Rubble Pile WKWMA	Soils OU	Remedial	Requires RFI	A-1 & A-5	4/30/2001	6/15/2001	N/A	8/14/2009	
488	PCB Contamination Area by the C-410 Trailer Complex	Soils OU	Remedial	Requires RFI	A-1 & A-5	5/16/2001	7/25/2001	N/A	4/5/2002	
489	Septic Tank North of C-710 Laboratory	Soils OU	Remedial	Requires RFI	A-1 & A-5	6/15/2001	7/25/2001	N/A		
490	McGraw Fuel Facility Waste Oil Storage Tank	N/A	N/A	No Further Action	A-2	8/31/2001	10/15/2001	N/A	12/21/2001	Transferred to UST Program
491	Mercury Spill at the C-611 Water Treatment Plant Vault	N/A	N/A	No Further Action	A-2	8/31/2001	10/15/2001	N/A	3/22/2004	Transferred to UST Program

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
492	Contaminated Soil Area, Near Outfall 010	Soils OU	Remedial	Requires RFI	A-1 & A-5	8/31/2001	10/15/2001	N/A	12/2/2002	
493	Concrete Rubble Piles Near Outfall 001	Soils OU	Remedial	Requires RFI	A-1 & A-5	11/9/2001	1/17/2002	N/A	11/26/2002	
494	Ash Receiver Area in C-410/420	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/10/2001	N/A	8/29/2002	
495	C-410-I Ash Receiver Shed	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/26/2001	N/A	8/29/2002	
496	C-410 Fluorine/Hydrogen Filters (Northeast Mezzanine)	D & D OU	Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/11/2001	N/A	8/29/2002	
497	C-410/420 F2 Cell Neutralization Room Vats	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/11/2001	N/A	8/29/2002	
498	C-410/420 Sump at Columns D & E-1&2	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
499	C-410/420 Sump at Column H-9&10	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
500	C-410/420 Sump at Column U-10&11	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
501	C-410/420 UF_6 Scale Pit Sumps A&B	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
502	C-410/420 Sump at Column U-9	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
503	C-410/420 Sump at Column G-1	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
504	C-410/420 Sump at Column L-10	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
505	C-410/420 Sump at Column A-3N	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
506	C-410/420 Sump at Column Wa-9	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
507	C-410/420 Condensate Tank Pit	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
508	C-410/420 Settling Basin	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
509	C-410/420 Drain Pit	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/20/2001	N/A	8/29/2002	
510	C-410/420 Sump at Column P&Q-2	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/21/2001	N/A	8/29/2002	
511	C-410/420 Sump at Column Q&R-2	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/21/2001	N/A	8/29/2002	
512	C-410/420 Sump at Column R-2	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/21/2001	N/A	8/29/2002	
513	C-411 Cell Maintenance Room Sump Pit	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-410)	Requires RFI	A-1 & A-5	11/21/2001	12/21/2001	N/A	8/29/2002	
514	C-340 Magnesium Fluoride Reject Silo	D & D OU	Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/21/2001	12/11/2001	N/A	8/29/2002	
515	C-340 "Dirty" Dust Collection System	D & D OU	Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/21/2001	12/11/2001	N/A	8/29/2002	
516	C-340 Derby Preparation Area Sludge Collection System	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	11/21/2001	12/11/2001	N/A	8/29/2002	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
517	Rubble and Debris Erosion Control Fill Area	Soils OU	Remedial	Requires RFI	A-1 & A-5	11/28/2001	2/18/2002	N/A	12/2/2002	
518	Field South of C-746-P1 Clean Scrap Yard	Soils OU	Remedial	Requires RFI	A-1 & A-5	11/28/2001	2/15/2002	N/A	12/2/2002	
519	C-410 Sulfuric Acid Tank (C-634-B)	N/A	N/A	No Further Action	A-2	11/28/2001	2/15/2002	N/A	1/10/2003	
520	Scrap Material West of C-746-A	Soils OU + Post-GDP (Additional Burial Ground Sources OU)	Remedial/ N/A	Requires RFI	A-1 & A-5	11/28/2001	2/18/2002	12/19/2002 6/14/2010	1/10/2003	Due to additional information, this SWMU was added to the Post-GDP (Additional Burial Ground Sources OU) in the 6/14/2010 Revised SAR.
521	C-340 Saw System Degreaser	D & D OU	Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	12/13/2001	12/11/2001	N/A	8/29/2002	
522	C-340 Work Pit at Ground Floor Level (B-7 to B-9)	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	12/13/2001	12/20/2001	N/A	8/29/2002	
523	C-340 Metals Plant Pit at Ground Floor (F-6 to F-11)	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	12/13/2001	12/20/2001	N/A	8/29/2002	
524	C-340 Pickling System Sump (B-10 to B-11)	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5	12/13/2001	12/11/2001	N/A	8/29/2002	
525	Concrete Water Tower Supports (KOW)	N/A	N/A	No Further Action	A-2	1/4/2002	2/18/2002	N/A	8/28/2007	
526	Internal Plant Drainage Ditches	SWOU	Removal Action	Requires RFI	A-1 & A-5	1/4/2002	2/18/2002	N/A	2/18/2002 (SAR Date)	
527	C-410 GSA/SAA at Column J-6	N/A	N/A	No Further Action	A-2	1/4/2002	2/18/2002	7/3/2007	8/28/2007	
528	GSA/SAA at the Northwest Corner of the C-745-G3 Paint Enclosure	N/A	N/A	No Further Action	A-2	1/4/2002	2/18/2002	N/A	2/14/2006	
529	C-340 Powder Plant Sump at Ground Floor Level	Post-GDP (Soils & Slabs OU) + D & D OU	N/A/ Inactive Facilities (C-340)	Requires RFI	A-1 & A-5		12/20/2001	N/A	8/29/2002	
530	Soil and Debris Storage Area by C-745-T Yard	N/A	N/A	No Further Action	A-2	2/22/2002	5/10/2002	2/7/2005	3/8/2007	
531	Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility	Soils OU	Remedial	Requires RFI	A-1 & A-5	2/22/2002	5/10/2002	N/A	5/21/2003	
532	Photographic Solution Treatment Area in the C-102 Building	N/A	N/A	No Further Action	A-2	2/22/2002	5/10/2002	N/A	5/21/2003	
533	Trichloroethene Spill Site from Historical TCE Unloading Operations at C-400	GWOU + Post-GDP (Groundwater Sources OU)	C-400 Action/ C-400 Residuals	Record of Decision	A-1 & A-6	2/22/2002	5/10/2002	N/A	C-400 ROD: 7/05	
534	UST #18 within SWMU 193	N/A	N/A	No Further Action	A-2	4/23/2002	5/10/2002	N/A	8/2/2002	Transferred to UST Program
535	S-755-T08-01 (Satellite Accumulation Area at C-755, Trailer 8)	N/A	N/A	No Further Action	A-2	5/8/2002	7/12/2002	N/A	2/14/2006	
536	Concrete Truck Washout Area	N/A	N/A	No Further Action	A-2	6/17/2002	6/3/2002	N/A	6/27/2002	
537	S-400-001 (SAA Located Outside at the Southeast Corner of the C-400 Building)	N/A	N/A	No Further Action	A-2	7/1/2002	8/15/2002	N/A	2/14/2006	

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
538	S-MST-01-01 & S-MST-01-02 (Mobile Trailer 01)	N/A	N/A	No Further Action	A-2	7/22/2002	9/5/2002	N/A	2/14/2006	
539	S-MST-02-01 & S-MST-02-02 (Mobile Trailer 02)	N/A	N/A	No Further Action	A-2	7/22/2002	9/5/2002	N/A	2/14/2006	
540	S-MST-03-01 & S-MST-03-02 (Mobile Trailer 03)	N/A	N/A	No Further Action	A-2	7/22/2002	9/5/2002	N/A	2/14/2006	
541	Contaminated Soil Area South of Outfall 011	Soils OU	Remedial	Requires RFI	A-1 & A-5	11/12/2002	1/15/2003	6/10/2009 8/31/10	6/10/2009 (SAR Revision Date)	Revisions were submitted in the D1 and D2/R1 SER for Addendum 1-B Soil Piles
542	G-746-B-01, S-746-B-01, S-746-B-02	N/A	N/A	No Further Action	A-2		10/15/2002	N/A	1/28/2004	This is SWMU 542 A
542	G-746-A-01, S-746-A-01, S-746-A-02	N/A	N/A	No Further Action	A-2		10/15/2002	N/A	1/28/2004	This is SWMU 542 B
543	T-746-S-01 (90 Day Storage Area)	N/A	N/A	No Further Action	A-2		10/15/2002	N/A	1/28/2004	
544	T-752-C-01 (90 Day Storage Area)	N/A	N/A	No Further Action	A-2		10/15/2002	N/A	1/28/2004	
545	S-755-T-22-01 and G-755-T-22	N/A	N/A	No Further Action	A-2	11/8/2002	1/8/2003	N/A	1/28/2004	
546	PGDP Post 67 Diesel Spill Area	N/A	N/A	No Further Action	A-2	3/11/2003	5/28/2003	N/A	2/14/2006	
547	PGDP Post 38 Diesel Spill Area	N/A	N/A	No Further Action	A-2	3/13/2003	5/28/2003	N/A	2/14/2006	
548	Staging Area for Concrete Piers, Wood and Rubble North Side of C-745-B Cylinder Yard	N/A	N/A	No Further Action	A-2	4/15/2003	6/27/2003	2/20/2004 & 6/15/2007	8/28/2007	
549	Dirt/Concrete Rubble Pile Near Outfall 008	SWOU	Remedial Action	Requires RFI	A-1 & A-5	5/7/2003	7/11/2003	N/A	8/20/2003	
550	Concrete Culvert Sections Located on the West Bank of the Ditch Leading to Outfall 001	SWOU	Remedial Action	Requires RFI	A-1 & A-5	6/3/2003	8/4/2003	N/A	8/4/03 (SAR Date)	
551	C-755-GSA-23 Located at C-755 Near the East Fence Line	N/A	N/A	No Further Action	A-2	9/19/2003	12/3/2003	6/15/2007	8/28/2007	
552	C-760 90-Day Accumulation Area	N/A	N/A	No Further Action	A-2	9/2/2004	11/4/2004	N/A	3/8/2007	
553	C-331-17	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/16/2005	6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07
554	C-331-18	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/2/2005	6/27/2008 3/23/2009	4/24/2009	
555	C-331-21	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/16/2005	6/27/2008 3/23/2009	4/24/2009	Closure Granted 5/8/07
556	C-337-22	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/16/2005	6/27/2008 3/23/2009	4/24/2009	
557	C-337-24	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/16/2005	6/27/2008 3/23/2009	4/24/2009	
558	C-337-26	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/16/2005	6/27/2008 3/23/2009	4/24/2009	
559	C-337-28	DMSA	N/A	No Further Action	A-4(a)	9/23/2005	12/16/2005	6/27/2008 3/23/2009	4/24/2009	
560	C-333-16 (South)	DMSA	N/A	No Further Action	A-2	12/16/2005	3/16/2006	12/21/2007	3/24/2008	
561	Soil Pile I	Soils OU	Remedial	Requires RFI	A-1 & A-5	2/16/2007	6/5/2008	N/A	7/18/2008 (SAR Date)	SAR was submitted in the D1 SER for Soil Pile I

Summary Master List of SWMUs (Continued)

SWMU Number	Description	Operable Unit Location	Subproject	Current Status	Part A Permit Appendix Location (s)	Date of SAR Notification	SAR Report Date	Date(s) SAR Amended	Date of NFA or RFI	Comments
562	Soil Piles C, D, E, F, G, H, J, K & P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek	Soils OU	Remedial	Requires RFI	A-1 & A-5	2/16/2007	6/10/2009	8/31/2010	6/10/2009 (SAR Date)	Revision was submitted in the D2/R1 SER for Addendum 1-B Soil Piles
563	Soil Piles CC, 20 and BW in subunit 4 north of Outfall 012 west of Little Bayou Creek	Soils OU	Remedial	Requires RFI	A-1 & A-5	2/16/2007	6/10/2009	8/31/2010	6/10/2009 (SAR Date)	Revision was submitted in the D2/R1 SER for Addendum 1-B Soil Piles
564	Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the North-South Diversion Ditch north of the P-, S- & T-Landfills	Soils OU	Remedial	Requires RFI	A-1 & A-5	2/16/2007	6/1/2009	8/31/2010	6/10/2009 (SAR Date)	Revisions were submitted in the D1 and D2 SER for Addendum 1-B Soil Piles
565	Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant)	Soils OU	Remedial	Requires RFI	A-1 & A-5	2/16/2007	9/13/2009	N/A	9/13/2009 (SAR Date)	SAR was submitted in the D1 SER for Rubble Areas
566	H-340-01	N/A	N/A	No Further Action	A-2	10/23/2009	1/21/2010	N/A	12/2/2010	C-340 D&D SWMU
567	Soil Pile K013 near Outfall 013, West of Little Bayou Creek	Soils OU	Remedial	Requires RFI	A-1 & A-5	N/A	12/23/2009	8/31/2010	12/23/09 (SAR Date)	Revision was submitted in the D1 SER for Addendum 1-B Soil Piles
568	C-340 ST-90 Boxes	N/A	N/A	No Further Action	A-2	8/25/2010	11/23/2010	N/A	12/2/2010	C-340 D&D SWMU
569	C-743-T17 Sample Return Refrigerator	N/A	N/A	No Further Action	N/A	2/23/2012	5/23/2012	N/A	5/24/2012	Response to NOV dated January 13, 2012
570	Sample Return Sealand	N/A	N/A	No Further Action	N/A	2/23/2012	5/23/2012	N/A	5/24/2012	Response to NOV dated January 13, 2012

Not Yet Transferred from Appendix A-4(2) to A-2. That will be done during Permit Mod #5

Determination of SWMU Status Pending

Legend:

COE: Corps of Engineers
BGOU: Burial Grounds Operable Unit
D&D: Decontamination & Decommissioning
DMSA: DOE Materials Storage Area
FICR: Final Inventory/Characterization Plan
GWOU: Groundwater Operable Unit
KOW: Kentucky Ordnance Works
OU: Operable Unit
NFA: No Further Action
RFI: Requires Further Investigation
SAR: SWMU Assessment Report
SWMU: Solid Waste Management Unit
SWOU: Surface Water Operable Unit
TSD: Treatment, Storage and Disposal (Permitted) Unit

Notes:

The following "Post-GDP" Operable Units were established with the approval of the D2 2010 Site Management Plan on

[1] **GDP Groundwater Sources OU** is the Post-GDP stage of the GWOU.

[2] **GDP Lagoons and Ditches OU** is the Post-GDP stage of the SWOU.

[3] **Additional Burial Ground Sources OU** is the Post-GDP stage of the BGOU.

[4] **Soils and Slabs OU** is the Post-GDP stage of the Soils OU.

TABLES FROM
SITE-WIDE ASSESSMENT MODEL AND ENVIRONMENTAL BASELINE

Table ES.1. List of the Source Units with the Greatest Cumulative Site-Specific Potential Cancer Risks to the Industrial Worker Based upon Direct Contact to Soils and Sediments at the Source Unit

Rank	Source Unit Identifier	Source Unit Name	Cumulative Site-Specific Potential Cancer Risks to an Industrial Worker*
1	340	Building C-340 and associated SWMUs	1.36E-03
2	400	Building C-400 and associated SWMUs	3.13E-04
3	410	Building C-410 and associated SWMUs	1.72-04
4	135	C-333 PCB Soil contamination	1.45E-03
5	519	C-410 Sulfuric Acid Tank	1.40E-04
6	5	C-746-F Classified Burial Ground	8.04E-05
7	16	C-746-D Classified Scrapyard	8.00E-05
8	2	C-749 uranium Burial Ground	6.13E-05
9	68	C-375-W* Effluent Ditch (KPDES 001)	5.63E-05
10	59	North-South Diversion Ditch (inside)	5.35E-05

*Results are for exposure under site-specific conditions and were derived using risk-based screening values. Because these were developed using risk-based screening values, these should not be considered equivalent to baseline risks.

Table ES.2. List of Source Units Contributing the Greatest to Cumulative Potential Cancer Risk to the Resident Based upon Household Use of Water Drawn from the Regional Gravel Aquifer at an Integrator Point

Rank	Source Unit Identifier	Source Unit Name	Cumulative Potential Cancer Risk to a Resident[a]
1	4	C-747 Contaminated Burial Ground	2.76E+00
2	720	Building C-720 and associated SWMUs/AOCs	4.65E-02
3	2	C-749 Uranium Burial Ground	6.43E-03
4	5	C-746-F Classified Burial Yard	4.97E-03
5	145	Residential/Inert Landfill Borrow Area[b]	1.05E-03
6	7	C-747-A Burial Ground	8.21E-04
7	30	C-747-A Burn Area	3.42E-04
8	1	C-747-C Oil Landfarm	1.52E-04
9	400	Building C-400 and associated SWMUs/AOCs	1.31E-04
10	58	North-South Diversion Ditch Outside Security Area	5.36E-05

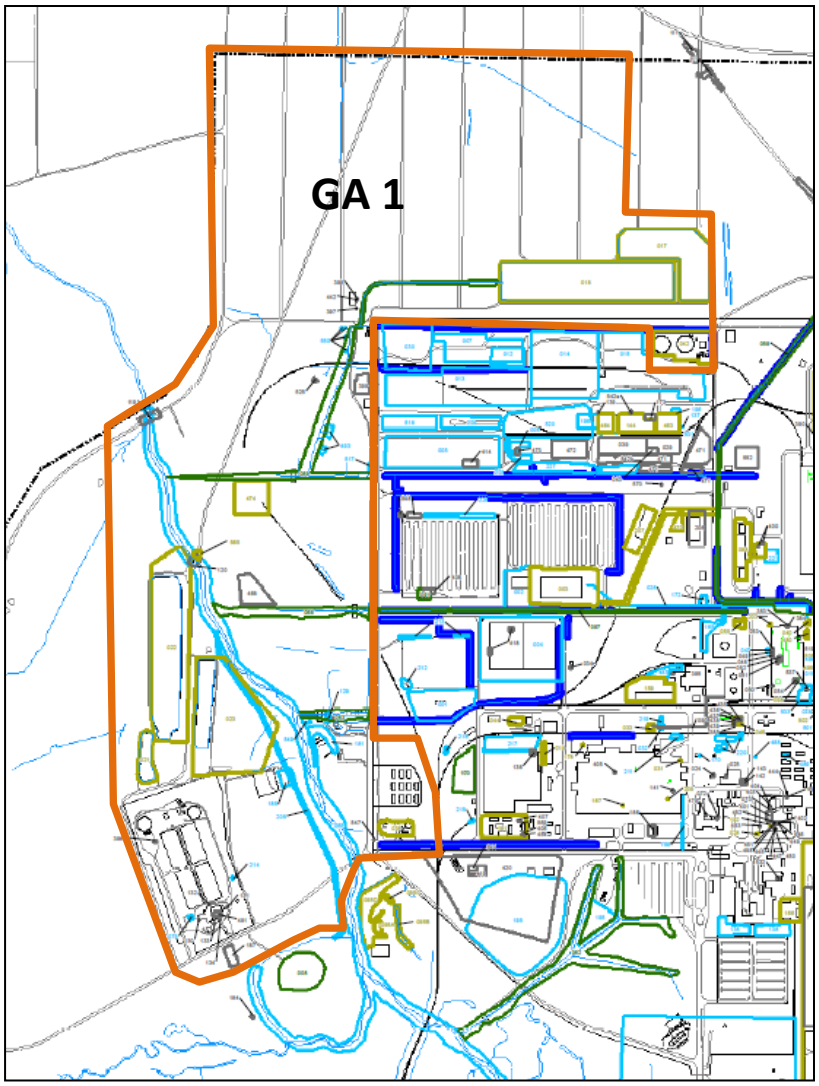
[a] Results were derived using risk-based screening values and very conservative estimates of source term mass. Because these were developed using these materials, these should not be considered equivalent to baseline risks.
[b] Includes contributions from SWMUs 9 and 10 (i.e., the C-746-S Residential Landfill and C-746-T Inert Landfill, respectively).

Table ES.3. List of Source Units Contributing the Greatest Flux of Total PCBs, Total PAHs, and Uranium-238 to Surface Water Integrator Points[a]

Rank	Source Unit Identifier	Source Unit Name	PCB Rank[b]	PAH Rank[b]	U-238 Rank[b]	Sum of COPC Ranks
1	340	C-340 Building and associated SWMUs	3	22	6	11
2	193	McGraw Construction Facilities (Southside Cylinder Yards)	4	5	4	13
3	3	C-404 Low-Level Radioactive Waste Burial Ground	1	10	5	16
4	145	Residential/Inert Landfill Borrow Area[c]	7	1	10	18
5	410	C-410 Building and associated SWMUs	11	3	7	21
6	58	North-South Diversion Ditch (Outside)	8	7	8	23
7	400	C-400 Building and associated SWMUs	9	4	13	26
8	7	C-747-A Burial Ground	22	13	2	37
9	67	C-375-E4 Effluent Ditch (C-340 Ditch)	12	12	15	39
10	30	C-747-A Burn Area	13	11	17	41

[a] Due to limitation of the transport model, it is not possible to examine contributions in terms of potential cancer risk. However, because PCBs, PAHs, and uranium-238 drive cumulative risk estimates at the surface water integrator points, the source ranking presented here should match that based on cumulative cancer risk.
[b] PCB Rank, PAH Rank, and U-238 Rank are estimates of the relative flux contribution that contaminant by the source unit to the surface water integrator points.
[c] Includes contributions from SWMUs 9 and 10 (i.e., the C-746-S Residential Landfill and C-746-T Inert Landfill, respectively).

Geographical Area (GA) 1



- ✓ Includes water treatment, sewage treatment, and effluent treatment systems
- ✓ 38 total SWMUs/AOCs
  - ✓ 17 NFA SWMUs/AOCs
  - ✓ 5 Lagoons and Ditches SWMUs/AOCs
  - ✓ 4 Soils and Slabs SWMUs/AOCs
  - ✓ 5 Soils Remedial SWMUs/AOCs
  - ✓ 7 Surface Water SWMUs/AOCs
- ✓ Includes the C-612 Groundwater Pump-and-Treat Facilities
- ✓ Includes the C-613 Sedimentation Basin
- ✓ Includes 6 Permitted Outfalls (001, 015, 004, 006, 008, 016)

Geographical Area (GA) 1

Utilities Infrastructure (UI)

- C-611-A, A1, B, B1, C, D, E, F, F1, F2 , F3, G, H, I, S, T, T01, U, X, Z Water Treatment Facilities
- SWMU 79 C-611 PCB Spill Site
- C-611-W Sludge Lagoon (SWMU 21)
- C-611-Y Sludge Lagoon (SWMU 22)
- C-611-V Sludge Lagoon (SWMU 23)
- C-611-V1 Sludge Lagoon (SWMU 23)
- C-615 Sewage Disposal Plant (SWMU 38)
- C-615-A Primary Settling Tank (SWMU 38)
- C-615-B Final Settling Tank (SWMU 38)
- C-615-C Oil Control Building (SWMU 38)
- C-615-D Digester (SWMU 38)
- C-615-E Trickling Filter (SWMU 38)
- C-615-F Trickling Filter Sludge Beds (SWMU 38)
- C-615-L Oil Control Monitoring Station
- C-615-M Oil Control Structure
- C-615-N Oil Contaminated Lagoon
- C-615-O Oil Control Building
- C-616-A Chemical Feed Building (SWMU 42)
- C-616-B Clarifier-East (SWMU 42)
- C-616-D Sludge Vault and Valve Pit (SWMU 42)
- C-616-E Sludge Lagoon (SWMU 17)
- C-616-F Full Flow Lagoon (SWMU 18)
- C-616-G Tank Farm (SWMU 42)
- C-616-H1 Ferrous Sulfate Storage Tank (East) (SWMU 42)
- C-616-H2 Ferrous Sulfate Storage Tank (West) (SWMU 42)
- C-616-J Reduction Tank-East (SWMU 42)
- C-616-K Service Building (SWMU 42)
- C-616-M Clarifier-West (SWMU 42)
- C-616-N Reduction Tank-West (SWMU 42)
- C-616-P Sludge Vault and Valve Pit (SWMU 42)
- C-375-04 KPDES Outfalls 004 (SWMU 63)
- C-375-06 KPDES Outfall 006
- C-375-W7 KPDES Outfalls 008 (SWMU 63)
- C-375-W8 KPDES Outfall 015 (SWMU 68)
- C-375-W9 KPDES Outfall 001 (SWMU 69)
- C-375-16 KPDES Outfall 016 (part of SWMU 526)

Former Support Facilities (FSF)

- C-218 Outdoor Firing Range (SWMU 181)
- C-611-K Inactive Number 4 Lagoon (SWMU 185)

Remediation Program Facilities (RPF)

- C-764-T01 through T11 Trailers
- C-233 Guard Trailer
- C-612 Groundwater Pump -and-Treat Facility
- C-612-A PAD Storage Pad
- C-612-B Storm Shelter
- C-612-T01 Trailer, Pump-and-Treat Office
- C-612-T02 Trailer, Pump-and-Treat Office
- C-612-T03 Trailer, Change/Shower
- C-613 Scrap Yard Sedimentation Basin
- C-613-A Sedimentation Basin Process Trailer
- C-613-01 Basin Pump Station
- C-613-02 Basin Pump Station
- C-613-B Soil/Borrow Stock Pile

Other SWMUs/AOCs (non-NFA)

- SWMU 205 Eastern Portion of Yellow Water Line
- SWMU 214 Outside DMSA OS-03
- SWMU 474 West of Vortec Site
- SWMU 493 Concrete Rubble Piles
- SWMU 517 Rubble and Debris Erosion Control Fill Area
- SWMU 549 Dirt/Concrete Rubble Pile
- SWMU 550 Concrete Culvert Sections
- SWMU 565 Rubble Area KY-19

C-611 Water Treatment Facility

C-611-A, A1, B, B1, C, D, E, F, F1, F2, F3, G, H, I, S, T, T01, U, X, Z (DEA)

Facility Information

23,224 ft^2 (Building)

The C-611 Water Treatment System provides the water supply to the Paducah Site. The C-611 water treatment plant has 15 acres of fenced area. The filter building and pump station are of wood frame construction.

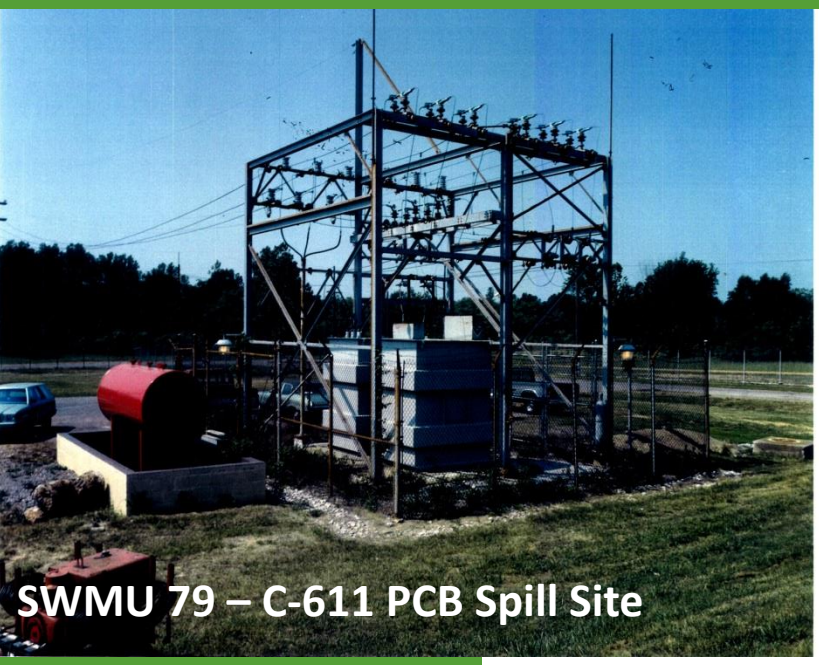
The peak usage of the system is 30 to 32 million gal per day. The water treatment process is based on conventional water treatment techniques, which include softening, coagulation, flocculation, sedimentation, and chlorination. Raw water is obtained from the Ohio River through an intake station and pumped through water-softening units at the facility.

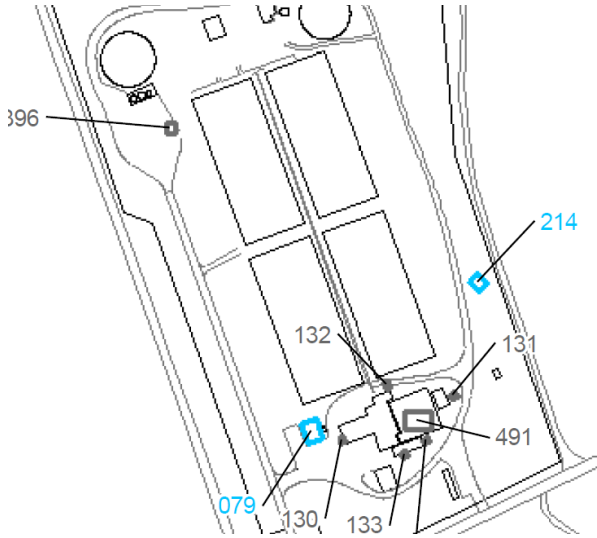
Environmental Concerns:

- Asbestos-containing material
- Lead-based paint
- Active lagoons are identified as individual SWMUs (21, 22, and 23) and are included in the Lagoons and Ditches Operable Unit
- Includes NFA SWMUs/AOCs 130, 131, 132, 133, 134, 187, 396, and 491

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Perform optimization analysis to determine if more effective systems or privatization are implementable





Facility Information

No dimensions specified

SWMU 79 C-611 PCB Spill Site

(DEA)

Environmental Concerns:

- Transformer oils containing PCBs were released in this vicinity

Near-Term Plans FY 15–FY 17:

- This SWMU is included in the Soils and Slabs Operable Unit
- This currently is an active transformer area
- Continue operations to support the C-611 Water Treatment Plant

C-611 Water Treatment Lagoons

C-611-W, Y, V, V1 (DEA)

Facility Information

Sludge from the lime softening process is discharged to the C-611-V lagoon for settling. The C-611-V sludge lagoon overflows into the C-611-Y full flow lagoon and then discharges through Outfall 006 to Bayou Creek.

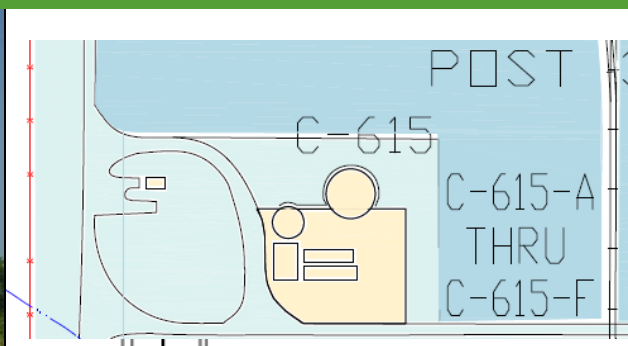
C-611-W is the west-most lagoon; it is smaller than V or Y. It is active and receives water/sludge when there is a clean out of Z-flocculator and E and G basins (west two basins). It also has a continuous flow source from West McCracken Water District that was installed as part of the water policy implementation for residents on the north side of the plant.

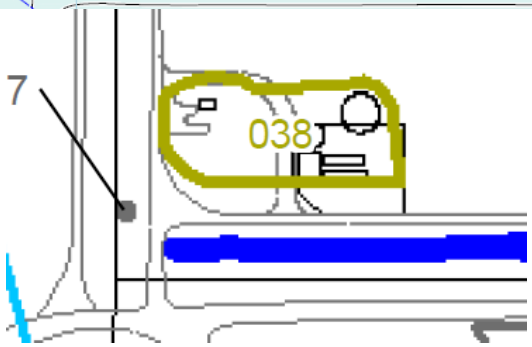
Environmental Concerns:

- SWMU 21—C-611-W used to receive sludge from C-611 treatment plant while dredging C-611-V
- SWMU 22—C-611-Y is a below grade surface impoundment that receives overflow from C-611-V lagoon—discharges through KPDES Outfall 006, which currently is permitted
- SWMU 23—C-611-V is a surface impoundment for raw water treatment plant effluent (discharged through KPDES Outfall 005, which no longer is permitted); area includes C-611-V1
- SWMUs are included in the GDP Lagoons and Ditches Operable Unit

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Perform optimization analysis to determine if more effective systems or privatization are implementable





Facility Information

806 ft² (Building)

The C-615 Sewage Disposal Plant provides the sewage handling and treatment for the Paducah Site.

C-615 is constructed of reinforced concrete. The sewage collection system services all the occupied plant buildings with the exception of some remote facilities.

It consists of a comminutor, primary and secondary settling basins, trickling filter, sludge digester and settling beds, chlorinator, and contact chamber.

Sewage is handled by four 400-gal per minutes (gpm) basin pumps and 75 gpm sludge pumps that provide a basic plant capacity of 350 gpm. Normal flow is between 200 and 300 gpm.

C-615 Sewage Treatment Plant

C-615, C-615-A, B, C, D, E, F (DEA)

Environmental Concerns:

- SWMU 38—C-615 Sewage Treatment Plant, includes area footprint
- Analysis of C-615 sludge indicates that PCBs and uranium are present from past spills into the plant sewage system

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Perform optimization analysis to determine if more effective systems are implementable

Oil Control Facilities

C-615-L, M, N, O (DEA)

Facility Information

The C-615-L Oil Control Monitoring Station is made of prefabricated metal and occupies approximately 144 ft^2. This facility monitors the level of oil released in effluents from different areas of the plant.

The C-615-M Oil Control Monitoring Station is constructed of reinforced concrete. It has been used to direct and control the oil level released from the effluent of the C-615-L Oil Control Monitoring Station.

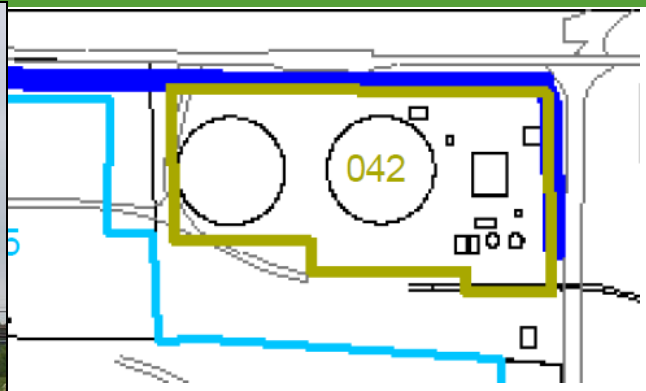
The C-615-N Lagoon is part of Outfall 008 (SWMU 63). C-615-O is listed as the Soil Control Building.

Environmental Concerns:

- PCBs

Near-Term Plans FY 15–FY 17:

- Continue use to support site operations



Facility Information

The PGDP Recirculating Cooling Water (RCW) systems are treated for corrosion control with a phosphate-based inhibitor for steel, a copper corrosion inhibitor, and a dispersant. Because a large quantity of RCW is lost through evaporation in the cooling towers, the concentration of soluble salts and nondissolved impurities will increase unless some means is used to control it. To control this at PGDP, a blowdown is used.

The corrosion inhibitors and other contaminants in the blowdown prohibit direct discharge of this water to the receiving stream. The purpose of the C-616 Wastewater Treatment Plant is to treat this wastewater to lower the contaminant concentrations below the discharge limits.

C-616 Liquid Pollution Abatement

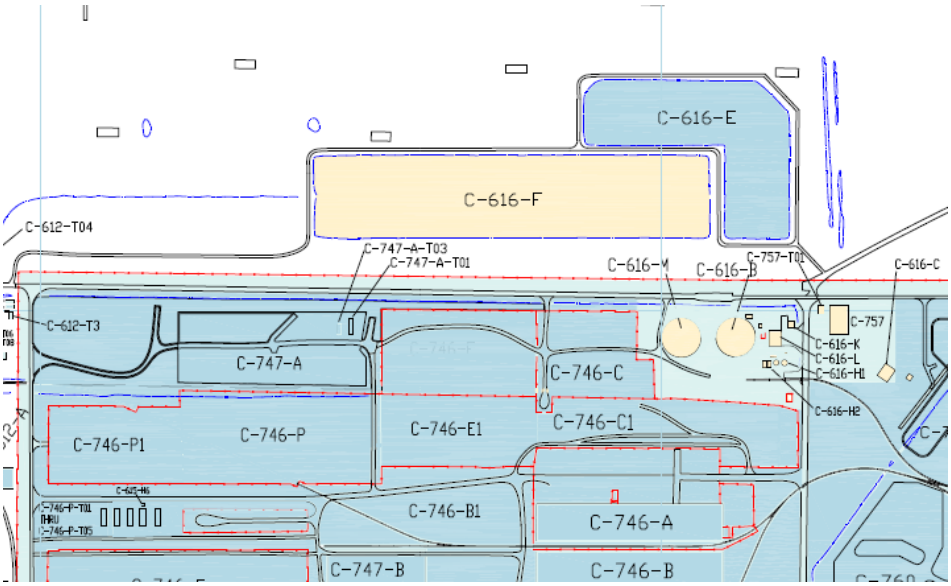
C-616-A, B, D, G, H1, H2, J, K, M, N, P (DEA)

Environmental Concerns:

- **SWMU 42**—C-616 Chromate Reduction Facility
- RCRA permit-by-rule facility
- Chromium and uranium (and other heavy metals) are removed from the RCW by the treatment processes
- Asbestos-containing material
- Major leaks of chromated water to the surrounding soil are relatively common
- Area surrounding the East and West Clarifier Tanks has elevated concentrations of uranium and PCBs

Near-Term Plans FY 15–FY 17:

- Perform surveillance and maintenance activities while evaluating reuse potential
- Facility may be needed to perform wastewater treatment activities



Facility Information

C-616-E is a sludge lagoon that is an L-shaped impoundment constructed with a clay floor placed at ground level and earth/clay walls. It is 215,000 ft^2 at 12.5-ft deep.

C-616-F is a rectangular aboveground surface impoundment used as an overflow receiver from the C-616-E Sludge Lagoon and as a settling pond for the North-South Diversion Ditch flow. The lagoon is constructed with an on-grade clay floor and aboveground dike walls. It is 285 ft by 1,285 ft at 12-ft deep.

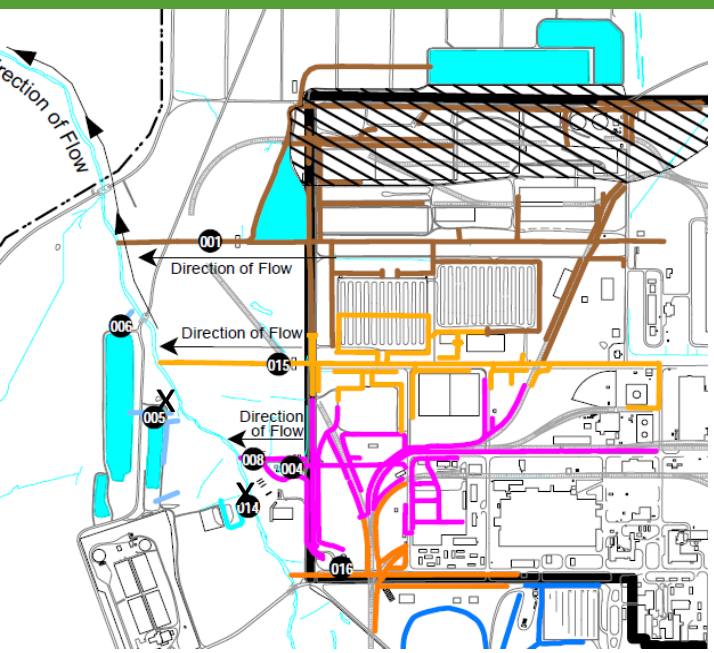
C-616-E Sludge Lagoon (REM)
C-616-F Full Flow Lagoon (DEA)

Environmental Concerns:

- **SWMU 17**—C-616-E
- **SWMU 18**—C-616-F
- C-616-E sludge contains trivalent chromium from the C-616 water treatment facility (at nonhazardous levels)
- C-616-F contains some solids from C-616-E and some solids from North-South Diversion Ditch (fly ash)
- Included with GDP Lagoons and Ditches Operable Unit

Near-Term Plans FY 15–FY 17:

- The C-616-F Lagoon may be needed if the process system is restarted for deposit removal or cylinder transfers
- C-616-E Lagoon is inactive



KPDES Outfalls 001, 015 (REM)

KPDES Outfall 004, 006, 008, 016 (DEA)

Environmental Concerns:

- Various plant contaminants (radionuclides, PCBs, etc.) have been discharged through these outfalls

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Consolidate the two KPDES permits

Outfall	Discharge Source	Contributing Process
001	C-600, C-612, C-613, C-614, C-616, C-752-A, C-752-C, North-South Diversion Ditch, C-335, C-337, C-535, C-537	Miscellaneous blowdown and runoff, wastewater treatment effluent, coalpile runoff, once-through cooling water, switchyard and ground surface runoff, roof and floor drains, and discharge from the Northwest Plume and Northeast Plume Pump-and-Treat facilities.
015	West central plant areas	Storm water.
004	C-615 sewage treatment plant, C-710, C-728m, C-750m, C-100m, C-620, C-400	Domestic sewage, laboratory sink drains, motor cleaning, garage drains, laundry, machine coolant treatment filtrate, condensate blowdown, and once-through cooling water.
006	C-611 secondary lagoon	Water treatment plant sludge, sand filter backwash, and laboratory sink drains from Outfall 005.
008	C-743, C-742, C-741, C-723, C-721, C-728, C-729, C-400, C-420, C-410, C-727, C-411, C-331, C-310, C-724, C-744, C-600, C-405, C-409, C-631, C-720	Surface drainage, roof and floor drains, once-through cooling water, paint shop discharge, condensate, instrument shop cleaning area, metal cleaning rinse water, and sink drains.
016	Southwest corner of the plant	Storm water.

C-218 Outdoor Firing Range (REM)

Facility Information

SWMU 181 was used from the early 1980s until 1992 when it was shut down and designated as a SWMU. The PGDP security force used the facility as a training ground for small arms target practice. Suspected contaminants include lead and other metals.

This SWMU is included in the *Action Memorandum for the Soils Operable Unit Inactive Facilities*. Contaminated soil on the berm face has been excavated in accordance with the *Removal Action Work Plan for Soils Operable Unit Inactive Facilities SWMU 19 and SWMU 181*. The results of verification sampling are included in *Removal Action Report for Soils Operable Unit Inactive Facilities Solid Waste Management Units 19 and 181*.

Environmental Concerns:

- SWMU 181
- Lead contamination was addressed in the Inactive Soils Removal Action (1,478 yds^3 was removed)
- This area was investigated further as part of the Soils Operable Unit Remedial Investigation (RI)—refer to RI Report for current data summary
- The representative data set used for SWMU 181 is sufficient to support decision making and indicates that a feasibility study (FS) is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the Work Plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

5,680 ft^2

Use to receive sludge from the C-611 Water Treatment Plant when C-611-V is being dredged.

Former C-611-K Inactive Number 4 Lagoon

C-611-K (REM)

Environmental Concerns:

- SWMU 185—Metals with lead are the primary concern
- This area discharged through KPDES Outfall 014 (which no longer is permitted)
- This SWMU is included in the Surface Water Operable Unit

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029

C-764 Trailer Complex

C-764-T01 through T-11 (REM)
C-233 Guard Trailer (REM)

Facility Information

16,665 ft^2

This complex consists of 11 trailers located in the southwest corner of the industrial area, outside the limited area fence.

The area is secured with automated access controls. Trailer C-233 is an unmanned guard trailer.

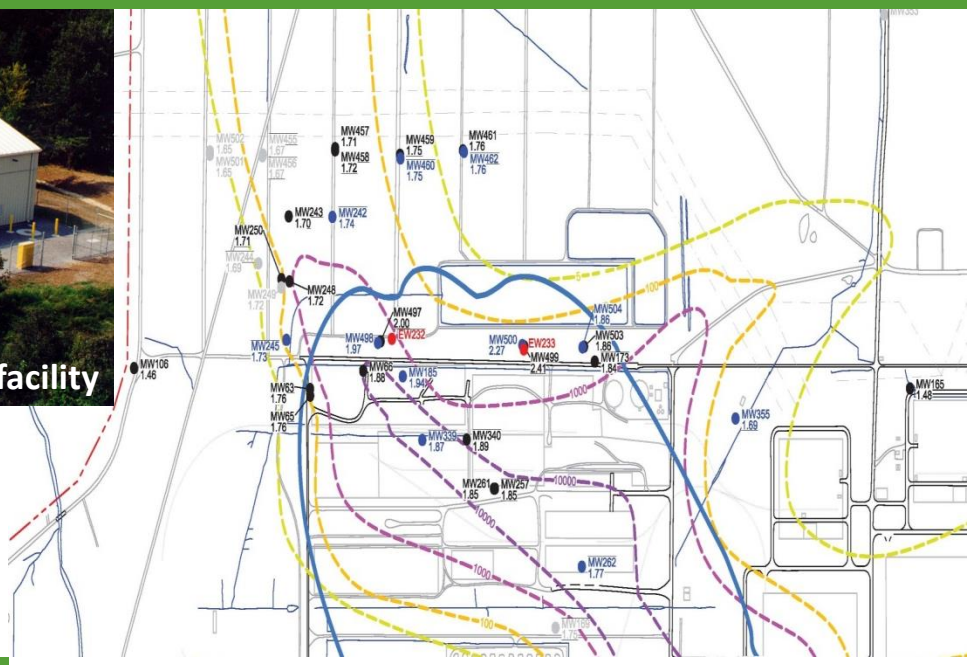
Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Remediation Contractor uses the complex for office space and change trailer for personnel

Northwest Plume treatment facility



C-612 Northwest Plume Pump-and-Treat System

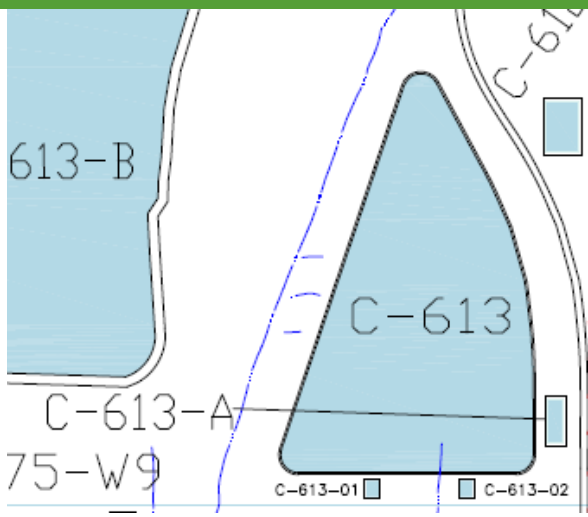
C-612, A, B, T01, T02, T03 (REM)

Project Description

The Northwest Plume is one of three groundwater plumes located at the Paducah Site. In 1993, a Record of Decision (ROD) was signed for hydraulic containment and treatment of high concentrations of off-site trichloroethene (TCE) contamination associated with the Northwest Plume.

The Northwest Pump-and-Treat facility went online in 1995 and uses extraction wells with carbon treatment and ion exchange for the treatment of TCE, a common degreaser, and technetium-99, a radionuclide.

- New wells installed in 2010 as part of the Northwest Plume Pump-and-Treat Optimization Project dramatically increased the capture of high concentrations of TCE within the Northwest Plume
- The Northwest Plume Pump-and-Treat facility has treated approximately 2 billion gal of groundwater and removed more than 3,000 gal of TCE since it began operation
- Includes NFA SWMUs/AOCs 396, 397, 398, 399



The C-613 Sedimentation Basin was installed during the Scrap Yard Removal Project to limit the migration of sediments from the work site. The facility design consists of three components: storm water collection and conveyance, gravity-settling basin, and enhanced settling by chemical treatment. The facility is designed to detain the estimated runoff volume from the scrap metal yards for a 10-year, 24-hour (hour) precipitation event of 5 inches. Extra volume is included to enhance facility operation and efficiency. The volume of the basin at the design maximum water level (360 ft amsl) is approximately 3,750,000 gal. At the elevation of the facility spillway (365 ft amsl), the basin capacity is approximately 4,500,000 gal.

C-613 Sedimentation Basin

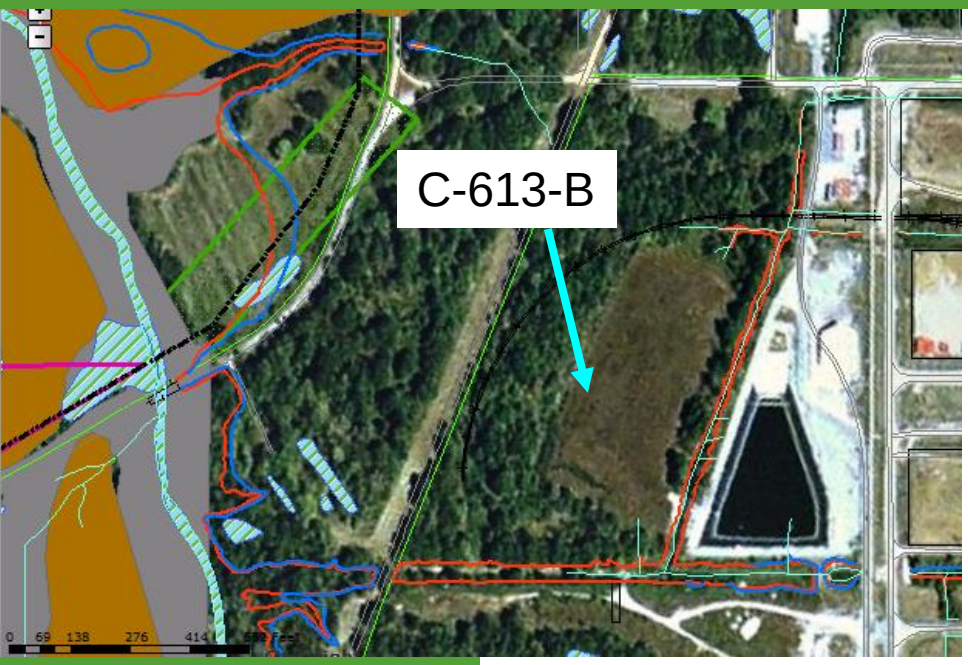
C-613, C-613-A, C-613-01, C-613-02 (REM)

Environmental Concerns:

- The basin contains a layer of sediments in the bottom that contain radionuclide contamination
- The basin empties into Outfall 001

Near-Term Plans FY 15–FY 17:

- Continue use for limiting sediment migration from the northeast corner of PGDP



C-613-B Soil/Borrow Stock Pile
(REM)

Scope

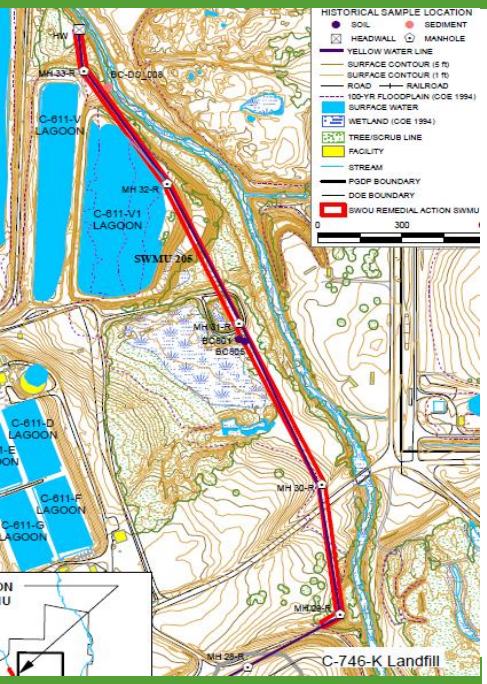
This area was created with the construction of the C-613 basin. Its original size was listed as 22,577 yds^3.

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use for needed fill



SWMU 205 Eastern Portion of the Yellow Water Line

(REM)

Facility Information

The Yellow Water Line (YWL) is a subsurface, vitrified clay pipe that was used from December 1942 until August 1945 to convey yellow water trade wastes from the Kentucky Ordnance Works (KOW) TNT manufacturing area to a discharge point on Bayou Creek.

Yellow water typically is acidic and is a by-product of the TNT manufacturing process. Specifically, the contaminated wastewater is a by-product of the washing process used in the production of TNT. The portion of the YWL included within SWMU 205 consists of approximately 3,200 ft of 12-inch diameter, segmented, vitrified-clay pipe and six associated 36-inch diameter manholes .

It also includes the northern headwall of the line that was constructed of acid-proof brick.

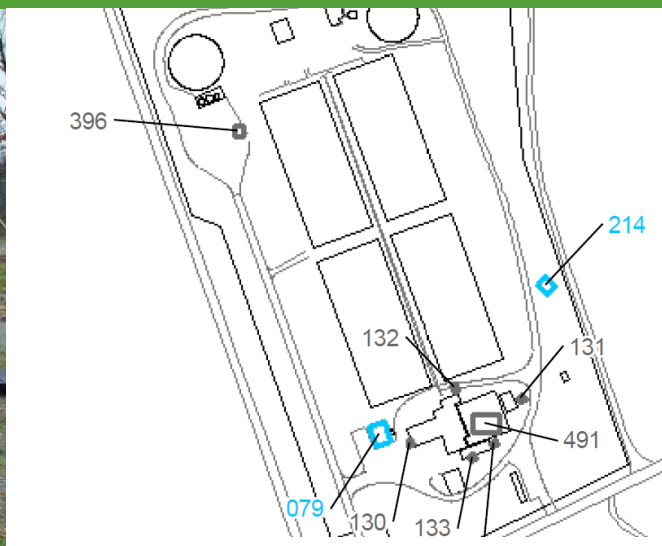
Environmental Concerns:

- Portions of the YWL previously have been investigated as part of a three-phase RI of the former KOW conducted for the Army Corps of Engineers between 1991 and 1997
- Results from these previous investigations suggest the creek sediments are not heavily contaminated with nitroaromatic compounds, although some highly localized nitroaromatic contamination is found very near damaged sewer lines or headwalls
- During the previous investigations, a piece of TNT was found in the sewer line, indicating there is a potential for TNT to be present within the clay pipe

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029

SWMU 214 – Outside DMSA OS-03
12/10/2007



Facility Information

384 ft^2

DMSA OS-03 was created by PGDP utilities operations for storage of DOE materials upon transition from DOE to USEC operations. Prior to 1994, the area was gravel and grass-covered.

The material that was stored was covered by a 16 ft x 24 ft aluminum, carport-type shed without walls.

The SWMU is near the C-611 Water Treatment Plant.

SWMU 214 at C-611 Area

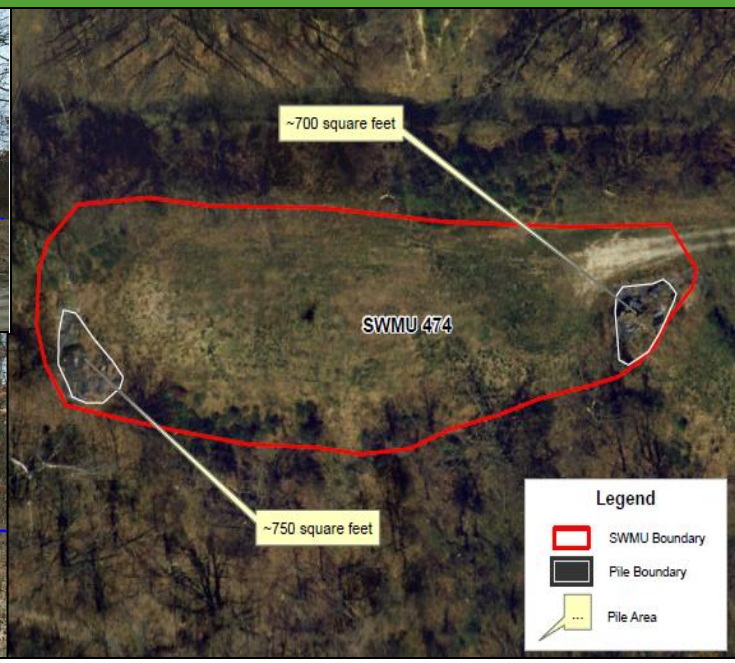
(REM)

Environmental Concerns:

- SWMU 214—There have been no known spills or releases of materials to the environment from this SWMU—reference Closure Certification submitted on 10/18/2006
- Sampled under Soils Operable Unit RI
- The representative data set used for SWMU 214 is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the Soils Operable Unit RI Work Plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025



Facility Information

Approximately 300 ft x 100 ft

Currently stores concrete culverts, soil, concrete rubble, and debris.

In November and December 2001, concrete rubble piles were removed from SWMUs 493 and 517 during the construction of the C-613 Sediment Control Basin. Approximately 1 ft of soil underlying the piles was excavated during the removal of the concrete rubble. With the approval of the Kentucky Division of Waste Management, concrete rubble and soil were relocated to SWMU 474 (as seen on figure), placed on plastic, and covered.

SWMU 474 West of Vortec Site

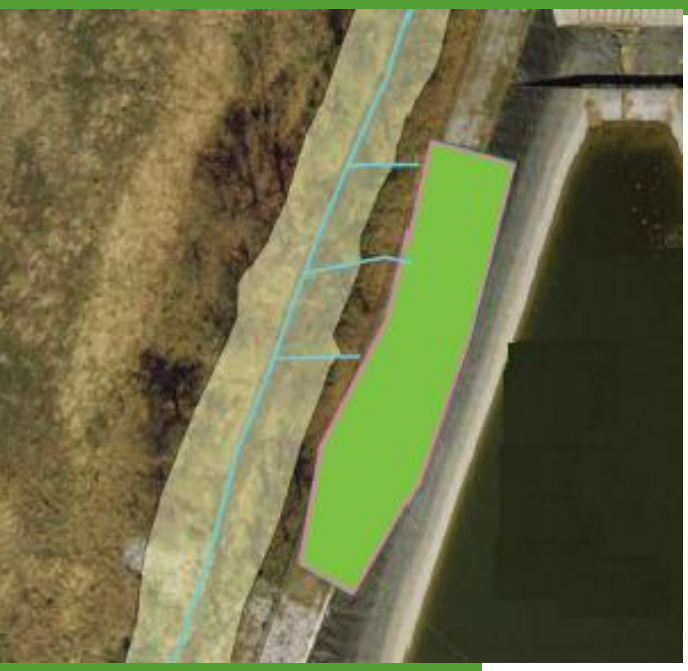
(REM)

Environmental Concerns:

- Low concentrations of PCBs; a semivolatile organic compound (SVOC), di-n-butyl-phthalate; and a volatile organic compound (VOC), methylene chloride, were detected in a small number of samples (sampled in 2002). NOTE: The di-n-butyl phthalate and methylene chloride may not be representative of SWMU conditions because they are typical lab contaminants
- None of the SWMU 493 debris samples or the SWMU 517 soil samples indicated that the wastes should be either RCRA hazardous or Toxic Substance Control Act (TSCA)-regulated (sampled in 2002)
- 2006 radiological walkover readings did not exceed two times background

Near-Term Plans FY 15–FY 17:

- None—This SWMU is included in the Soils and Slabs Operable Unit



SWMU 493 Concrete Rubble Piles

(REM)

Facility Information

SWMU 493 is under the liner of the C-613 Sedimentation Basin. Two rubble piles that were approximately 450 ft^3 and 270 ft^3 were moved to an area just south of KPDES Outfall Ditch 001, called SWMU 474.

The concrete was surveyed and some debris items were found to be radiologically contaminated. Per a request from Kentucky, the first foot of soil under the concrete was excavated, relocated to SWMU 474, and placed on plastic.

Pieces of metal shavings and filings, such as that from a machine shop, and other pieces of scrap metal, along with a few gaskets and litter, were discovered in the relocated soil. As a result of this discovery, the excavation of the SWMU 493 area was discontinued and the site inspected visually.

Environmental Concerns:

- Low concentrations of PCBs; an SVOC, di-n-butyl-phthalate; and a VOC, methylene chloride, were detected in a small number of samples. NOTE: As above, the di-n-butyl phthalate and methylene chloride may not be representative of SWMU conditions
- No RCRA-hazardous constituents were detected in any soil samples from the waste removed from SWMU 493 and relocated to SWMU 474
- Samples were samples collected from metal shavings, concrete, fiber board, a fire blanket, and a “black piece of material.” Results show none of these samples should be either RCRA hazardous or TSCA regulated
- This area was investigated as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 493 is sufficient to support decision making and indicates that an FS is appropriate

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

SWMU 517 Rubble and Debris Erosion Control Fill Area

(REM)

Facility Information

In December 2001, the construction subcontractor for the C-613 Basin found an area of radiologically contaminated material and concrete rubble on the southeast side of the C-613 Basin in an area that was being excavated for a trench to install a discharge water line from the basin into the East-West Diversion Ditch.

The suspect contaminated material and concrete rubble were surveyed and some was determined not to be contaminated.

In accordance with a request by DOE that was approved by KDEP, the area was to be excavated, relocated to SWMU 474, and placed on plastic.

After removal of the contaminated material and concrete rubble, excavation of the area continued.

Environmental Concerns:

- During removal, additional material and concrete rubble were discovered. The soil and debris were surveyed and found to be contaminated. Small pieces of radiologically contaminated concrete and soil were removed from the SWMU. The remaining soil and debris in the bucket were placed back in the SWMU. The excavation was discontinued
- This area was investigated further as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 517 is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the Work Plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

SWMU 549 Dirt/Concrete Rubble Pile Near Outfall 008

(REM)

Facility Information

30 ft by 30 ft

It is suspected that the pile was created during the installation of the refrigerated auto-sampler project in the early 1990s.

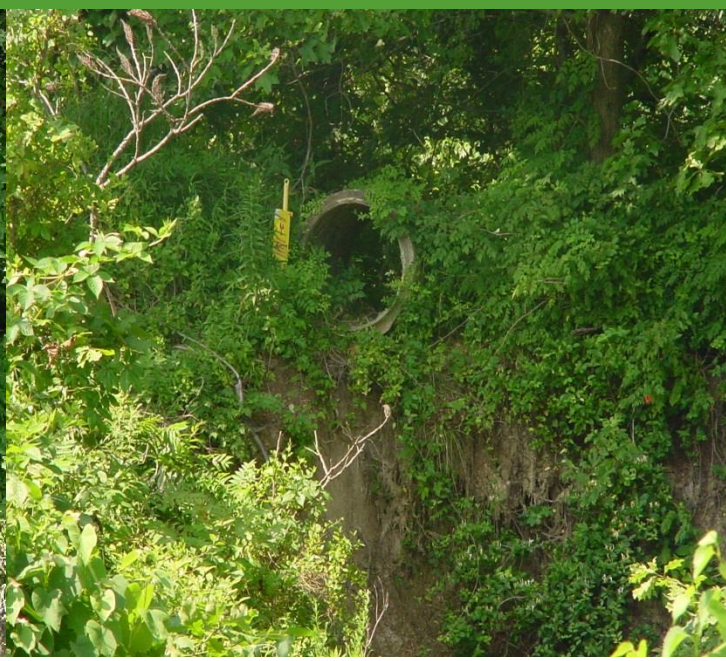
The rubble pile consists of three distinct mounds in a roughly L-shaped formation. The amount of vegetation currently present suggests the waste was placed there years before.

Environmental Concerns:

- Fixed radiological contamination

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029



Facility Information

20 ft x 20 ft

This SWMU contains five sections of a concrete culvert located on the west bank of the ditch leading to Outfall 001.

SWMU 550 Concrete Culvert Sections

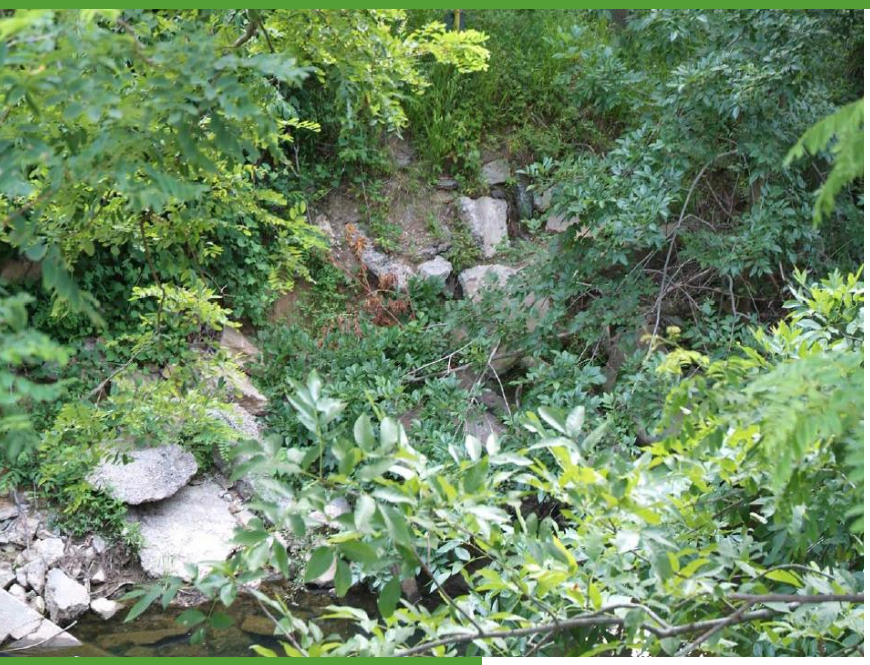
(REM)

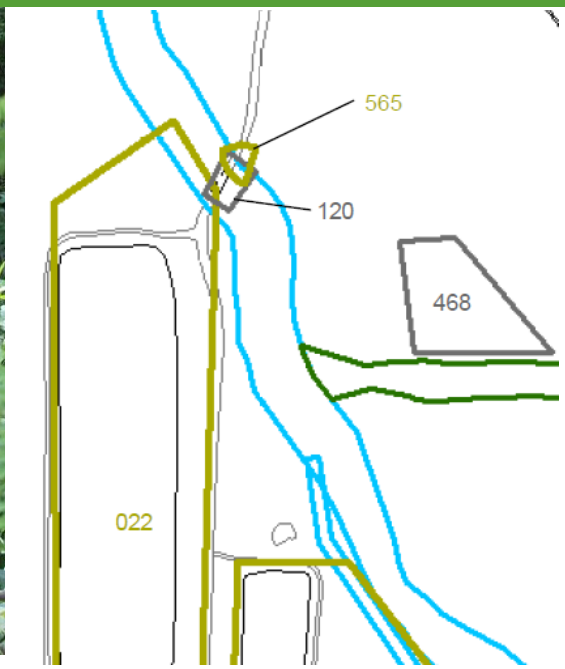
Environmental Concerns:

- Two of the five sections have fixed radiological contamination

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029





Facility Information

60 ft x 30 ft

Used for erosion control along north wall of Bayou Creek, north of C-611 Water Treatment Plant.

AOC 565 Rubble Area KY-19

(REM)

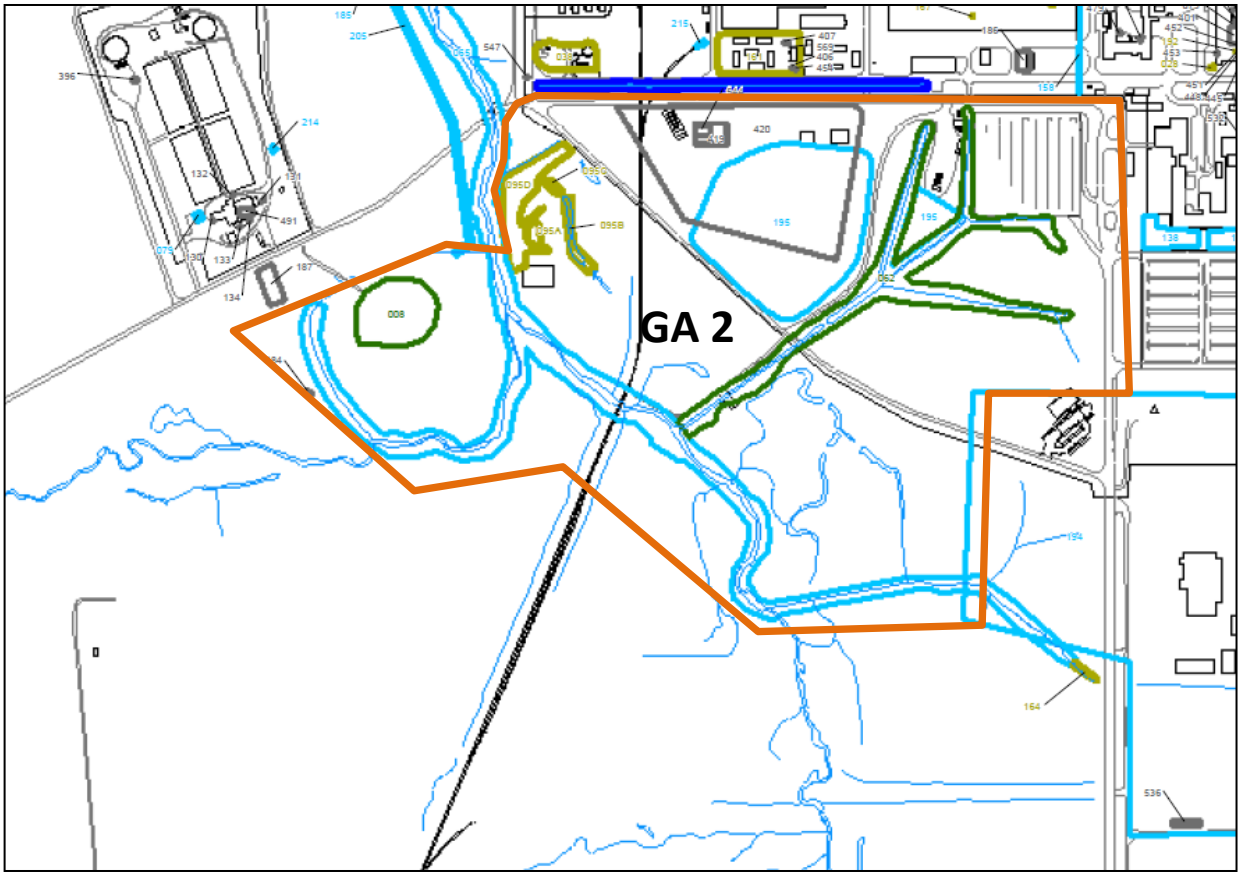
Environmental Concerns:

- Radiological readings obtained on an accessible concrete slab within the creek bank during November 2006 indicated 200 counts per minute fixed readings, no measurable dose
- Recently sampled with Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Geographical Area (GA) 2



- ✓ Few site structures in this area
- ✓ 8 total SWMUs/AOCs
  - ✓ 4 NFA SWMUs/AOCs
  - ✓ 1 KOW SWMU/AOCs
  - ✓ 1 Landfill
  - ✓ 1 Soil Mound SWMU with 2 Distinct Areas
  - ✓ 1 KPDES Permitted Outfall (009)

Geographical Area (GA) 2

Utilities Infrastructure (UI)

- C-375-56 KPDES Outfall 009

Mission Support Facilities (MS)

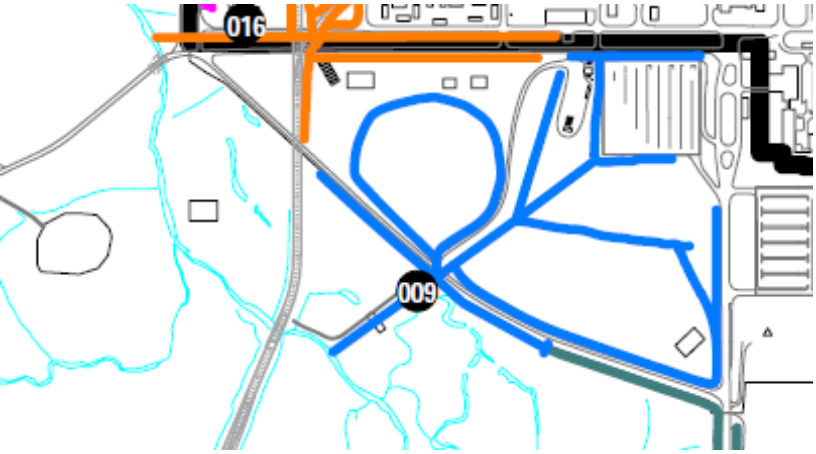
- C-730 Maintenance Services Building
- C-730-A Storm Shelter
- C-730-T01 Trailer, Office
- C-730-T02Trailer, Office/Storage
- C-730-T05 Trailer, Office
- C-730-T06 Trailer, Office
- C-752-B Fuel Station
- C-752-B-T01 Fuel Station Trailer

Remediation Program Facilities (RPF)

- C-752-C Decontamination Facility
- C-746-K Landfill (SWMU 8)

Other SWMUs/AOCs (non-NFA)

- SWMU 95 C-748-A KOW Burn Area
- SWMU 195 Curlee Road Contaminated Soil Mounds



KPDES Outfall 009 (DEA)

Outfall	Discharge Source	Contributing Process
009	C-810, C811, C-331, C-333, C310, C-100, C-102, C-101, C-212, C-200, C-300, C-320, C-302, C-750, C-710, C-720	Surface drainage, roof and floor drains, condensate, once-through cooling water, and sink drains.

Environmental Concerns:

- Various plant contaminants (radionuclides, PCBs, etc.) have been discharged through these outfalls

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Consolidate the two KPDES permits

C-730 Area

C-730, C-730-A, C-730-T05 (DEA)
C-730-T01, T02, T06 (REM)

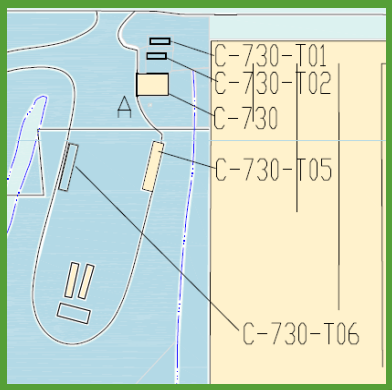
Facility Information

1,057 ft² (C-730)
4,512 ft² (Trailers)

C-730 Maintenance Services Building was built in the 1950s and now is used as a staging area for sampling programs. C-730 historically has been used as a field laboratory.

C-730 is made of concrete blocks.

The area includes a storm shelter and four trailers.



Environmental Concerns:

- C-730—Lead-based paint
- C-730—Chemicals such as acids discharged to the drain
- Trailers—None

Near-Term Plans FY 15–FY 17:

- Continue use of facilities to support site operations

10/24/2014

Facility Information

C-752-B Fuel Station includes four tanks for four different fuel types:

- Regular unleaded gasoline
- E85 fuel
- On-road diesel fuel
- Biodiesel (off -road—non taxed)

Four individual pumps are connected to a single card reader.

The card reader handles General Services Administration credit cards and Infrastructure Contractor-issued cards.

The system provides automated reports of fuel station activity and tank volume.

The area includes a support trailer.

Fuel Station

C-752-B, B-T01 (INF)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue operations to support site activities

10/24/2014

Facility Information

7,620 ft^2

A covered decontamination pad that also is used for the temporary storage of waste and wastewater generated from decontamination of equipment used in site investigation and remediation activities.

C-752-C Decontamination Facility

(REM)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use to support remediation activities

10/24/2014

C-746-K Landfill

(REM)

Facility Information

500 ft x 700 ft

The ground surface is vegetated and slopes in a radial fashion from a maximum elevation of 392 ft amsl near Bayou Creek at the eastern edge of the landfill. Drainage ditches along the western and northern edges of the landfill flow to the south into the unnamed tributary and to the east into Bayou Creek, respectively.

Records indicate that PGDP used the landfill between 1951 and 1981 for disposal of fly ash from the plant's coal combustion boilers, for uncontaminated combustible plant waste, and for potential radiologically contaminated plant waste.

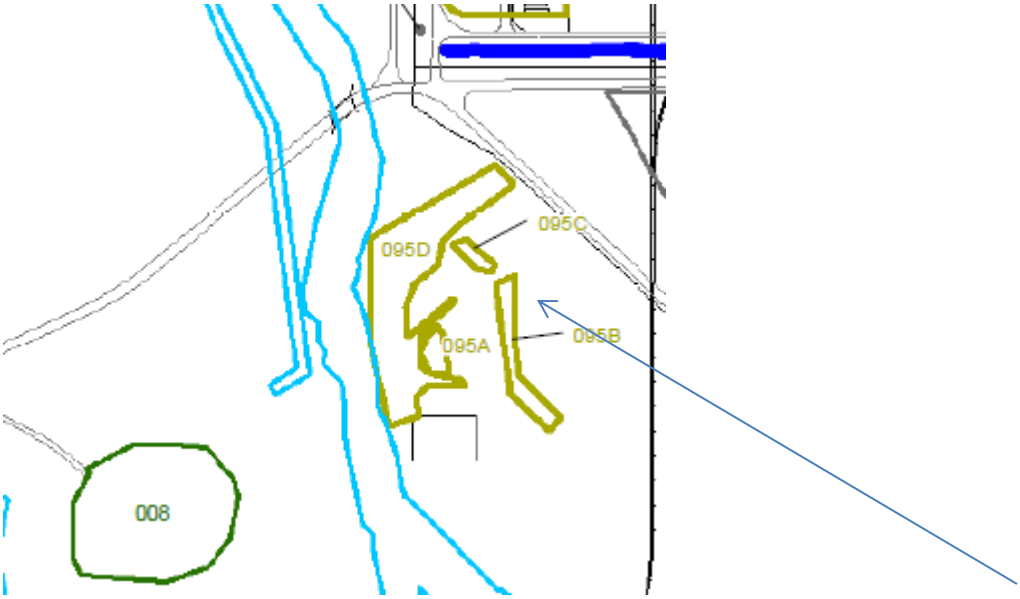
Environmental Concerns:

- Record of Decision (ROD) issued in February 1998, reference ROD for site conditions
- Address in Comprehensive Site Operable Unit

Near-Term Plans FY 15–FY 17:

- Continue meeting ROD operation and maintenance Requirements

10/24/2014



Facility Information

SWMU 95—KOW Burn Area

- Burn and burial areas for KOW waste. Assumed burned on the surface and then buried.

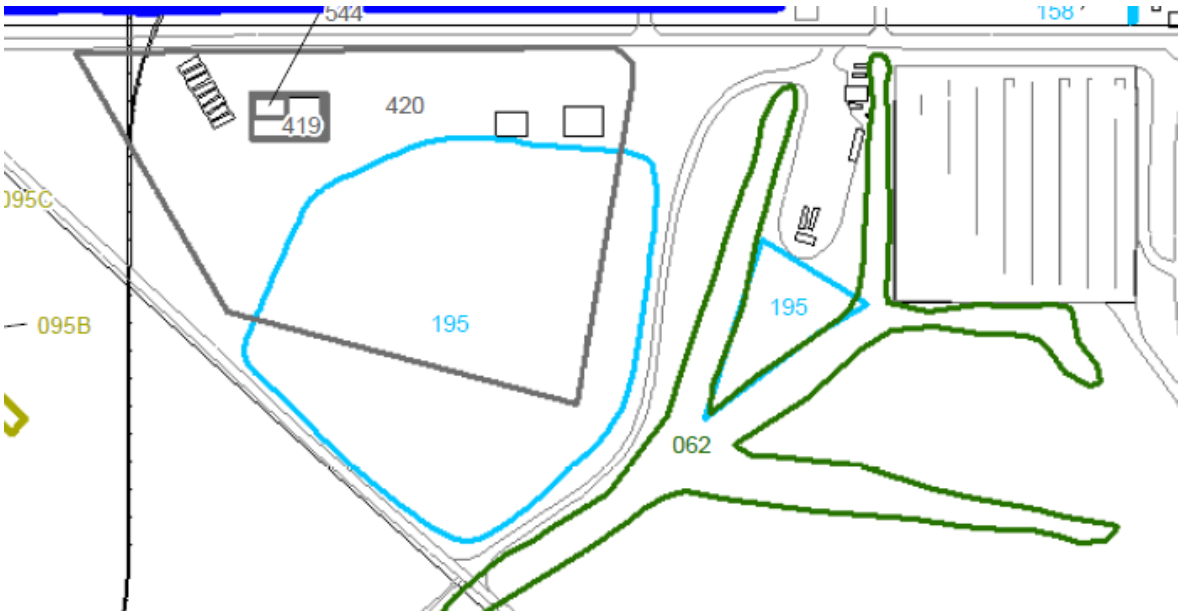
C-748-A (KOW Burn Area) SWMU 95 Is To Be Investigated by Army Corps of Engineers

Environmental Concerns:

- SWMU 95—Analytical data suggest the presence of trinitrotoluene (TNT) at elevated levels. In addition, the results suggest the presence of other semivolatiles at lower concentration. Soil gas sampling detected trichloroethene, carbon tetrachloride, and toluene

Near-Term Plans:

- The COE has not indicated a time frame for the investigation



Facility Information

The Curlee Road Contaminated Soil Mounds (SWMU 195) are located in the southwest portion of the plant site. The site consists of two mounds of soil approximately 10–15 ft in height and covers 370,000 ft^2.

The area was created during original construction of the plant. The soil was unusable for fill due to its characteristics and was placed in this location. Some soil also came from excavation of drainage ditches and cleaning of the ditches. This SWMU is on the banks of KPDES Outfall 009.

SWMU 195 overlaps a portion of SWMU 420, G-752-C-02, a non-RCRA and non-TSCA waste storage area, which is an NFA site in the 2012 SMP.

SWMU 195
Curlee Road Contaminated Soil Mounds
(REM)

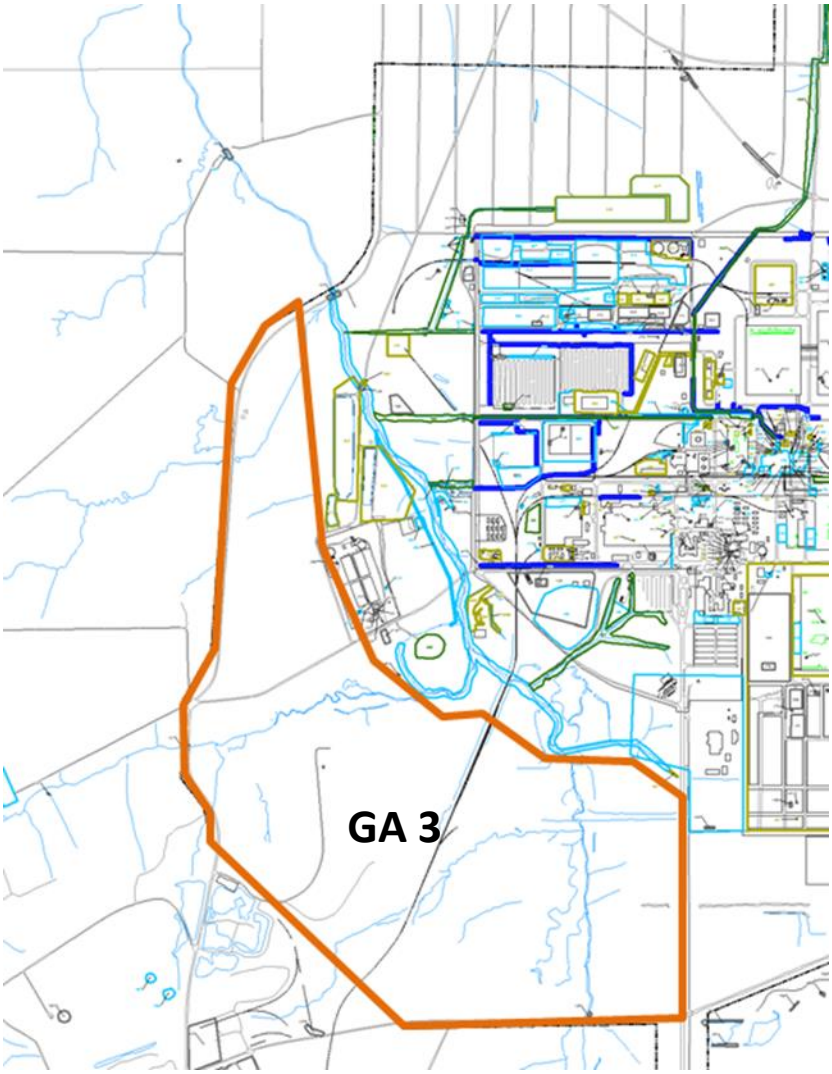
Environmental Concerns:

- This area was further investigated as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 195 is sufficient to support decision making and indicates that a feasibility study is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the Work Plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

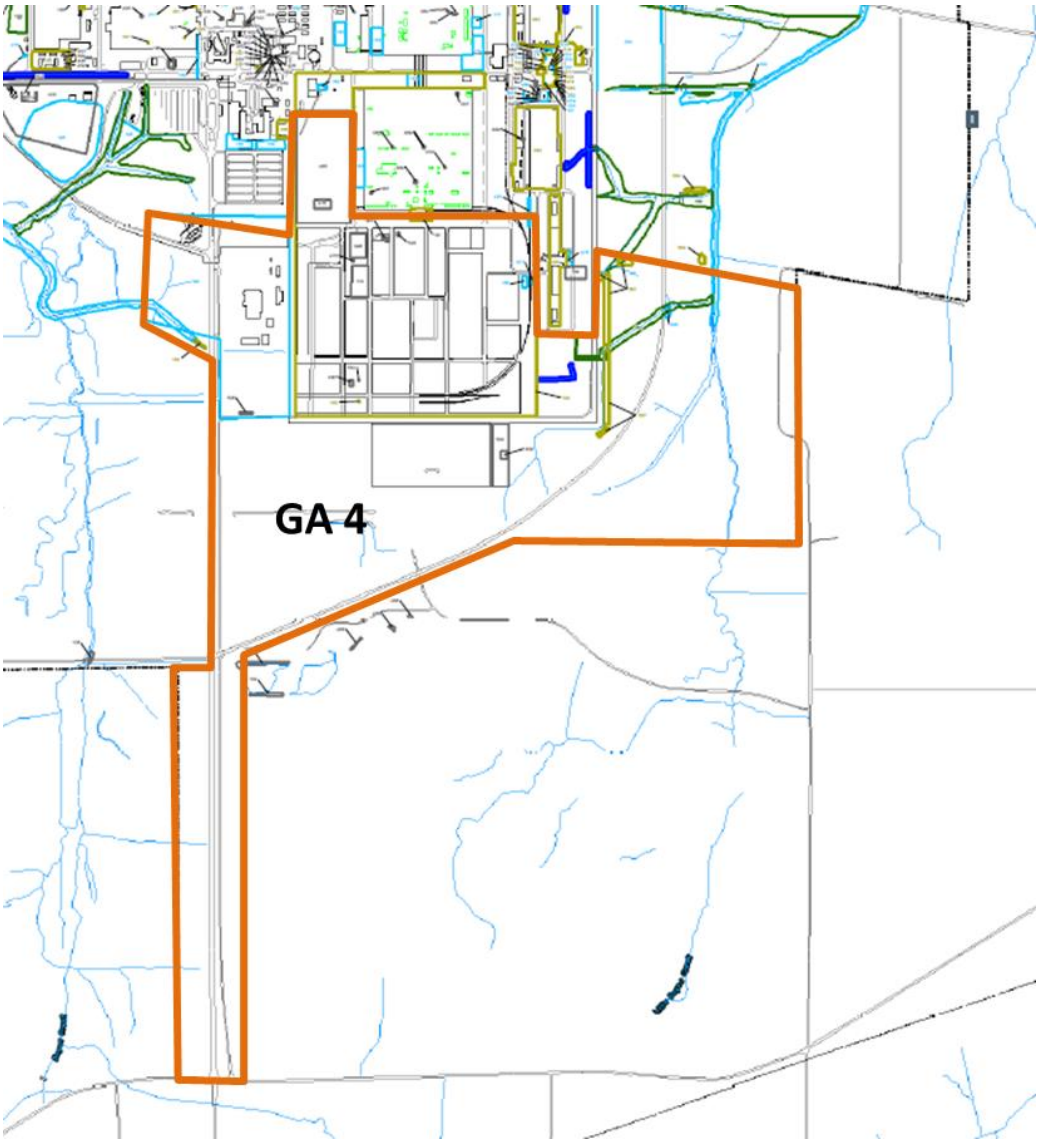
- None—Soils OU FS baselined for 2025

Geographical Area (GA) 3



✓ This area contains no facilities or SWMUs/AOCs.

Geographical Area (GA) 4



- ✓ Most of area will be used until the Depleted Uranium Hexafluoride Conversion Facility mission is complete
- ✓ 21 total SWMUs/AOCs
  - ✓ 11 NFA SWMUs/AOCs
  - ✓ 2 KPDES Permitted Outfalls (017 and 13)
  - ✓ 1 Permitted Storage for Hazardous Waste
  - ✓ 3 SWMUs/AOCs in the DUF_6 Footprint
  - ✓ 2 Soil Piles/Soil Contamination Areas
  - ✓ 1 Concrete Disposal Area
  - ✓ 1 Slab and Surrounding Contaminated Soils

Geographical Area (GA) 4

Utilities Infrastructure (UI)

- C-375-E6 KPDES Outfall 013 (SWMU 61)
- C-375-17 KPDES Outfall 017 (SWMU 164)
- C-617-C Outfall 013 Pond

Mission Support Facilities (MS)

- C-103 DOE Office Facility
- C-103-A DOE Office Facility Annex
- C-214 Post 57, Access Road
- C-746-Q Hazardous and Low-Level Waste Storage Facility (SWMU 46A)
- C-746-Q1 High Assay Waste Storage Facility (SWMU 46A)

Depleted Uranium Hexafluoride Conversion (DUF_6)

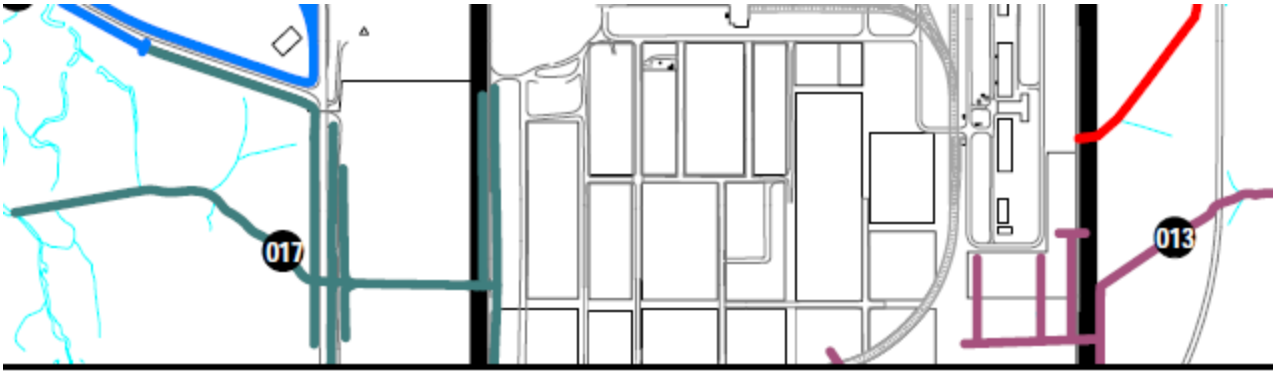
- C-1100 Administration Building
- C-1210 Vehicle Bridge
- C-1215 Vehicle Access House A
- C-1220 Vehicle Access House B
- C-1300 Conversion Building
- C-1305 HF Storage Area
- C-1305A HF Tanker Car Containment Pit
- C-1310 Nitrogen Supply System Pad
- C-1320 KOH Regeneration Building
- C-1330 Hydrogen Supply System Area
- C-1600B Service Water Pump House
- C-1700 Warehouse
- C-1745A Full Cylinder Staging Pad
- C-1745B Empty & Heel Cylinder Staging Pad
- C-1745C Oxide Cylinder Staging Pad

Cylinder Yards (CYLYD)

- C-745-D, F, G, K, L, M, N, P, Q, R, S, T, U, V, W, X, Cylinder Storage Yards
- C-745 B1 Cylinder Storage Yard Office
- C-745-G1 Cylinder Yard Basin and Lift Station
- C-745-G2 Cylinder Painting Facility
- C-745-G3 Cylinder Painting Facility
- C-745-G4 Cylinder Painting Facility
- C-745-G5 Cylinder Painting Facility
- C-745-R1 Cylinder Changeout Building

Other SWMUs/AOCs (non-NFA)

- SWMU 77
- SWMU 93
- SWMU 160
- SWMU 193
- SWMU 194
- SWMU 536
- SWMU 567



KPDES Outfalls 013 and 017 (DEA)

Outfall	Discharge Source	Contributing Process
013	Southeast corner of the plant	Storm water
017	Extreme south area of the plant	Storm water

Environmental Concerns:

- Various plant contaminants (radionuclides, metals, PCBs, etc.) have been discharged through these outfalls
- **SWMU 61**—Outfall 013 effluent ditch
- **SWMU 164**—Outfall 017 ditch soil backfill

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Consolidate the two KPDES permits

Facility Information

This facility was constructed to control runoff from the cylinder yards. It discharges into Outfall 013.

C-617-C Outfall 013 Pond

(DEA)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use to support site operations

C-103, C-103-A Office Facility and Annex

(INF)

Facility Information

10,699 ft^2

This facility houses DOE personnel and their direct support contractors. The main facility is 7,435 ft^2 and an annex adds an additional 3,264 ft^2.

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- DOE Site Office and support personnel office space

Facility Information

This portal is located on the PGDP access road. It currently is unmanned, but may be used in the future.

Guard Posts and Portals

C-214 Post 57, Access Road (DEA)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use to support site operations

C-746-Q and Q1 Hazardous and Low-Level Waste Storage Facility

(REM and DEA)

Facility Information

47,302 ft²

C-746-Q is a bounded concrete pad. The pad is reinforced with rebar and has a minimum concrete strength of 3,000 psi. An 8-inch concrete curb bounds the pad.

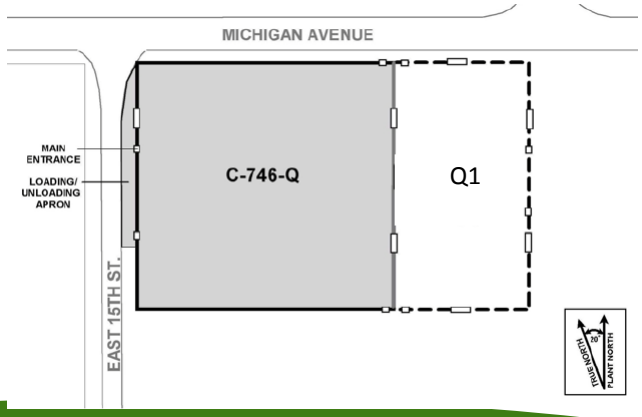
This unit is designed to manage both solid and liquid hazardous wastes. Wastes are stored in containers. This unit currently is permitted for the crushing of light bulbs and for chemical treatment of hazardous wastes in containers. Treatment methods for this facility include (1) treatment in a container by decanting and absorption and/or macroencapsulation and (2) treatment in a container, drum, or a sleeve for compaction.

Environmental Concerns:

- **SWMU 46A**—Permitted to stores hazardous waste

Near-Term Plans FY 15–FY 17:

- Continue permitted storage of hazardous waste



DUF_6 Conversion Facility Complex

(DUF_6)

Facility Information

C-1100 Administration Building
C-1210 Vehicle Bridge
C-1215 Vehicle Access House A
C-1220 Vehicle Access House B
C-1300 Conversion Building
C-1305 HF Storage Area
C-1305A HF Tanker Car Containment Pit
C-1310 Nitrogen Supply System Pad
C-1320 KOH Regeneration Building
C-1330 Hydrogen Supply System Area
C-1600B Service Water Pump House
C-1700 Warehouse
C-1745A Full Cylinder Staging Pad
C-1745B Empty & Heel Cylinder Staging Pad
C-1745C Oxide Cylinder Staging Pad

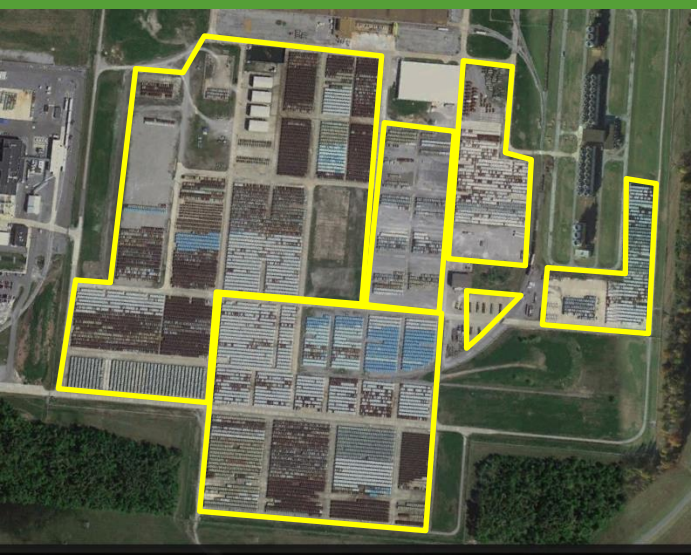
Environmental Concerns:

- The facility was constructed on SWMU 194

Near-Term Plans FY 15–FY 17:

- Continue utilization for DUF_6 conversion

Long-term plans to continue operations until completed (currently 2035)



Cylinder Storage Yards

C-745-D, F, G, K, L, M, N, P, Q, R, S, T, U, V, W, X (DUF_6)

Environmental Concerns:

- Radiological contamination
- Zinc from runoff of some painted cylinders

Near-Term Plans FY 15– FY 17:

- Continue utilization for DUF_6 storage

Yard	Construction Material	Area/Capacity (Approximate)
C-745-D	concrete and compacted DGA	154,903 ft^2 and has a capacity of approximately 1,700 10-ton or 14-ton cylinders
C-745-F	concrete and DGA	246,530 ft^2 and has a capacity of approximately 5,600 10-ton or 14-ton cylinders
C-745-G	concrete	370,826 ft^2 and has a capacity of approximately 6,600 10-ton or 14-ton cylinders
C-745-K	concrete	184,097 ft^2 and has a capacity of approximately 4,200 10-ton or 14-ton cylinders
C-745-L	concrete	303,850 ft^2 and has a capacity of approximately 7,000 10-ton or 14-ton cylinders
C-745-M	concrete	118,531 ft^2 and has a capacity of approximately 2,800 10-ton or 14-ton cylinders
C-745-N	compacted DGA	77,960 ft^2 and has a capacity of approximately 1,700 10-ton or 14-ton cylinders
C-745-P	concrete and compacted DGA	85,869 ft^2 and has a capacity of approximately 1,900 10-ton or 14-ton cylinders
C-745-Q	compacted DGA	265,600 ft^2 and has a capacity of approximately 5,300 10-ton or 14-ton cylinders
C-745-R	compacted DGA	133,000 ft^2 and has a capacity of approximately 4,200 10-ton or 14-ton cylinders
C-745-S	concrete	93,474 ft^2 and has a capacity of approximately 2,300 10-ton or 14-ton cylinders
C-745-T	concrete	470,409 ft^2 and has a capacity of approximately 10,000 10-ton or 14-ton cylinders
C-745-U	compacted DGA	175,000 ft^2 and has a capacity of approximately 3,600 10-ton and 14-ton cylinders
C-745-V	compacted DGA	139,700 ft^2 and has a capacity of approximately 3,900 10-ton and 14-ton cylinders
C-745-W	concrete	17,700 ft^2 and has a capacity of approximately 300 10-ton and 14-ton cylinders
C-745-X	not specified	equipment storage yard

Facility Information

Building C-745-G1 is a 7 ft x 10 ft pump house contains pumps to prevent overflow of the C-745-G basin.

Cylinder Yard Basin and Lift Station

C-745-G1 (DUF_6)

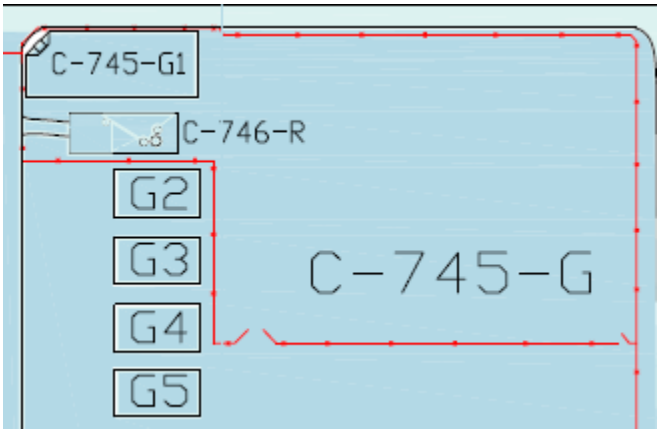
Environmental Concerns:

- Radionuclides
- Zinc and other metals

Near-Term Plans FY 15–FY 17:

- Continue utilization for DUF_6 conversion

Long-term plans to continue operation until completed (currently 2035)



Cylinder Painting Facilities

C-745-G2, G3, G4, G5 (DUF_6)

Facility Information

1,800 ft²

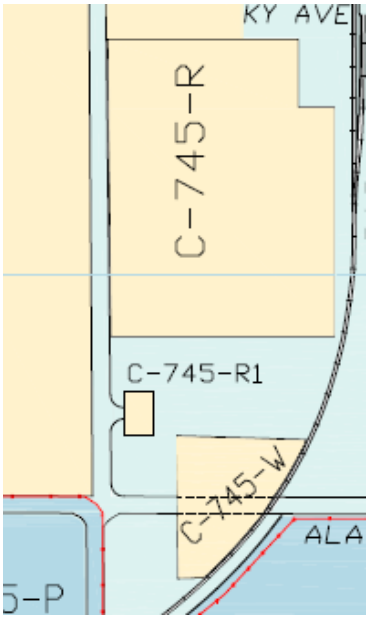
Buildings C-745-G2, C-745-G3, C-745-G4, and C-745-G5 are referred to commonly as cylinder paint buildings, each measuring 50 ft x 90 ft. The cylinder paint buildings currently are used for storing cylinder yard equipment (including cylinder handling equipment and vehicles), furniture, and new equipment. No hazardous materials are stored in these buildings.

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use for storing cylinder yard equipment and vehicles



Facility Information

Facility is used for cylinder changeouts.

Cylinder Changeout Building

C-745-R1 (DUF_6)

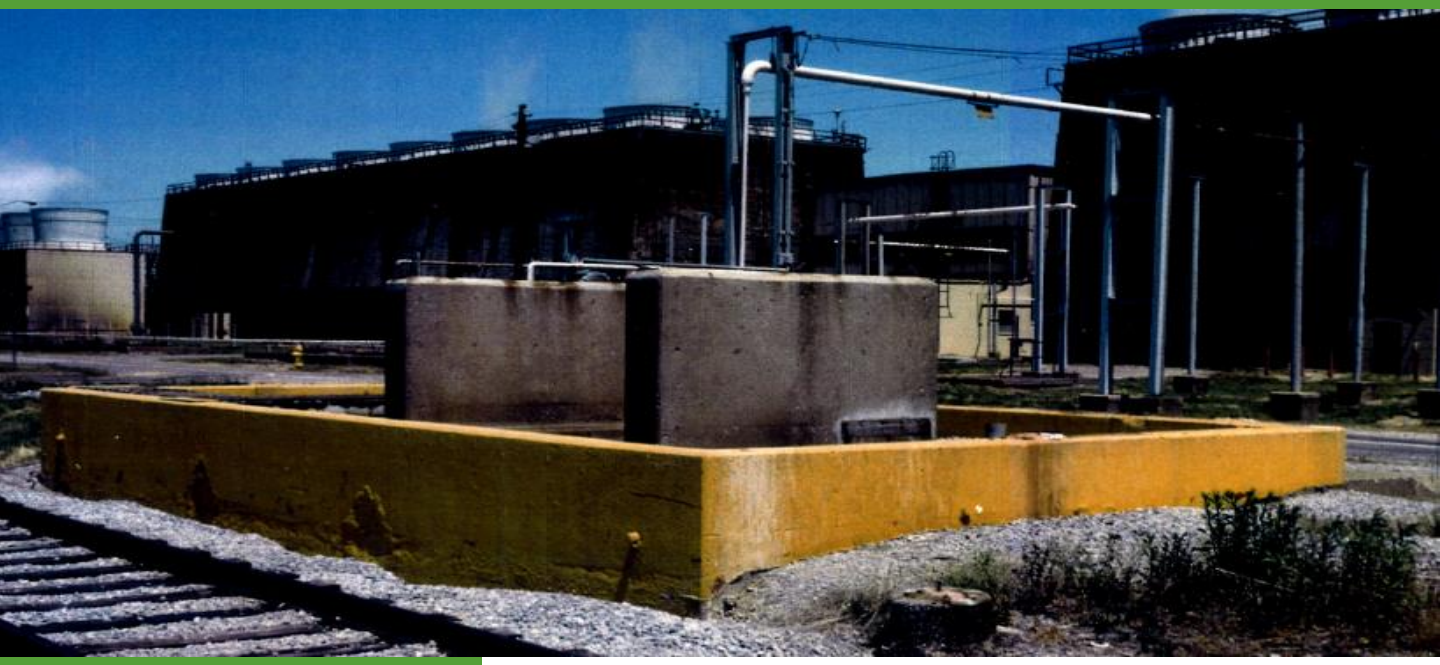
Environmental Concerns:

- Radionuclides

Near-Term Plans FY 15–FY 17:

- Continue utilization for DUF_6 conversion

Long-term plans to continue operation until completed (currently 2035)



Facility Information

Infrastructure that remains there was a former steel, aboveground tank used for sulfuric acid storage.

SWMU 77 C-634-B Sulfuric Acid Storage Tank

(REM)

Environmental Concerns:

- Spills of sulfuric acid may have occurred from the tank and piping
- Recently sampled with Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

The original material has been removed from this area as part of a maintenance action in 2009.

SWMU 93 Concrete Disposal Area East of PGDP

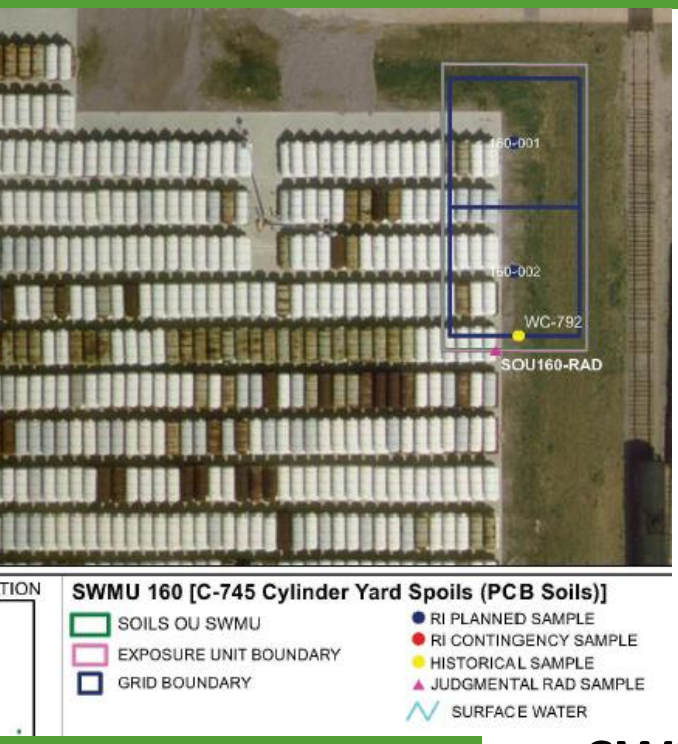
(REM)

Environmental Concerns:

- SWMU 93 (near Outfall 013) was removed as a maintenance action in 2009 as part of lowering the culvert at Outfall 013. The rubble was replaced with riprap for erosion control. Soil sampling and radiological scans were conducted after removal of the concrete, but before replacement of riprap. These samples and scans indicated no contamination present above background levels.

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029



SWMU 160 C-745 Cylinder Yard Spoils PCB Soils (REM)

Facility Information

300 ft x 500 ft

Historically, this area was used as storage of excavated soils and soils for fill from other projects at PGDP.

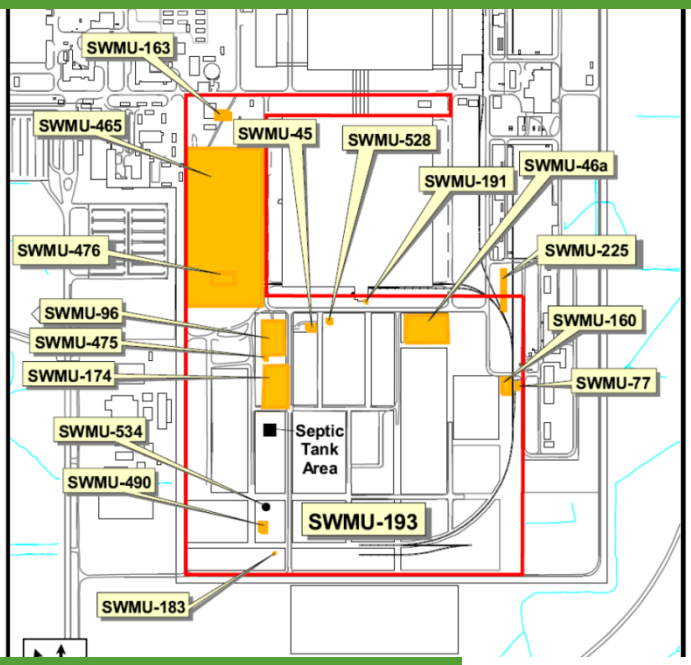
SWMU 160 is across the railroad tracks from SWMU 77, the C-643-B Sulfuric Acid Storage Tank slab and underlying soils. Both of these two SWMUs are within the boundaries of SWMU 193, McGraw Construction Facilities (Southside Cylinder Yards), which is scheduled to be addressed by the GDP D&D OU (DUF_6 D&D subproject). A response action at SWMU 160 would not have an effect on either of the other two SWMUs mentioned, nor would it affect any integrator OUs.

Environmental Concerns:

- Surface samples detected PCBs, uranium, arsenic, chromium, lead, selenium, thallium, and nickel
- This area was further investigated as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 160 is sufficient to support decision making and indicates that a feasibility study is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the Work Plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025



SWMU 193 McGraw Construction Facilities (Southside Cylinder Yards)

(REM)

Facility Information

Approximately 104 acres: 2,100 ft by 1,800 ft (cylinder yards); 500 ft by 1,200 ft (west side of C-333); and 1,200 ft by 120 ft (north side of C-333). Sixteen other SWMUs are included in the footprint of SWMU 193.

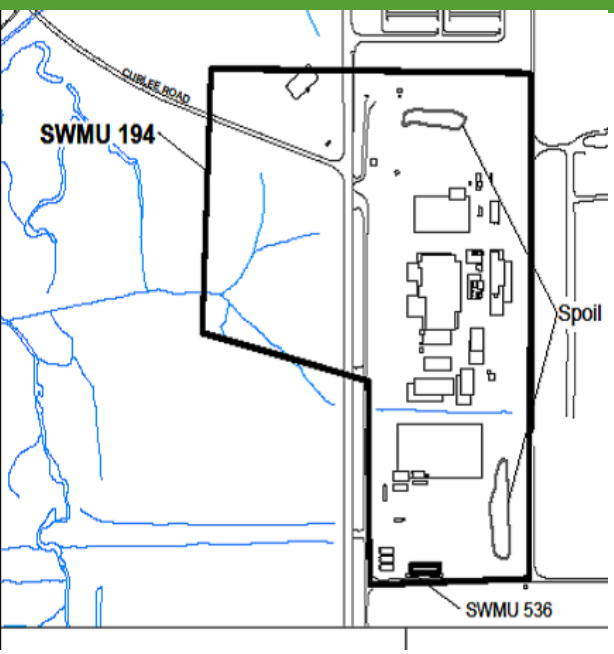
In the 1950s, this area was used for infrastructure support facilities associated with the construction and operation of PGDP. Currently, the C-745-D, -F, -G, -K, -L, -M, -N, -P, -Q, -R, -S, -U, and -V DUF_6 Cylinder Storage Yards are located in this area.

Environmental Concerns:

- In the 1990s, various RIs were conducted on this SWMU
- TCE and degradation products are contaminants of concern in groundwater
- The results, documented in the WAG 28 RI/FS Report, indicate the presence of 1,2-DCE, TCE, boron, chromium, lead, and zinc
- Several underground storage tanks have been removed from this unit

Near-Term Plans FY 15–FY 17:

- None—This is part of the DUF_6 D&D OU, to be addressed as part of D&D of the DUF_6 Conversion Facility



SWMU 194 McGraw Construction Facilities (Southside)

(REM)

Facility Information

600 ft x 900 ft

This unit consisted of buildings for support of original plant construction. Buildings/activities located in this area included Administration Building, Cafeteria, Boiler House, Guard Headquarters, Hospital, and Purchasing. None of the facilities exists at this time. This unit is located outside the security fence adjacent to the plant.

Possible concrete footers and debris may remain below grade. There is no known disposal of hazardous constituents.

Environmental Concerns:

- The Northeast Plume Investigation was conducted in 1995 to identify possible sources of contamination associated with various buildings and operations within SWMU 194. The results of this investigation indicated potential metal contamination, but no volatile or TCE contamination
- The WAG 28 RI/FS noted the sporadic presence of some metals at slightly above background levels. These metals include aluminum, beryllium, cadmium, calcium, iron, lead, magnesium, sodium, vanadium, and zinc

Near-Term Plans FY 15–FY 17:

- None—This is part of the DUF_6 D&D OU, to be addressed as part of D&D of the DUF_6 Conversion Facility

SWMU 536 Concrete Truck Washout Area

(REM)

Facility Information

25 ft x 50 ft

During cylinder yard refurbishment, equipment used for placement of concrete, such as mixers and dump trucks, used the area to wash-out any residual concrete prior to leaving the plant site. The area is surrounded by straw bales and a silt fence to prevent the mobilization of material during rain events.

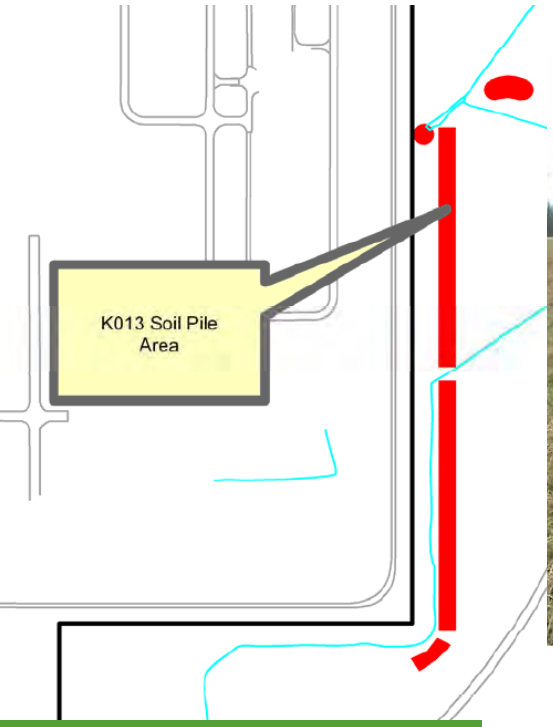
This area is contained within SWMU 194 along the southern edge of SWMU 194 and has not been used for any other purpose in recent history. The southern most portion of the area is the gravel shoulder for Montana Avenue and the northern portion of the area is grass covered.

Environmental Concerns:

- Current washout will not result in contamination of soil in this area
- No impact to the surface soil is anticipated

Near-Term Plans FY 15–FY 17:

- None—This is part of the DUF_6 D&D OU, to be addressed as part of D&D of the DUF_6 Conversion Facility



SWMU 567 Soil Pile K013 near Outfall 013, West of Little Bayou

(REM)

Facility Information

The K013 soil pile consists of 5 individual piles with the following approximate areas: 2,500 ft^2; 6,300 ft^2; 30,400 ft^2; 31,800 ft^2; and 3,800 ft^2. The soil piles are approximately 3 ft high.

This area was discovered June 2008. The area contained soil piles that likely were generated as a result of past construction activities at PGDP. This area was characterized with the other soil piles in the area in October 2008 during the Soil Pile Addendum 1-B investigation. The Addendum 1-B Site Evaluation Report stated that PGDP monitoring data indicates that little to no migration has taken place to date from these piles. The creeks will be investigated by the SWOU, as described in the Site Management Plan.

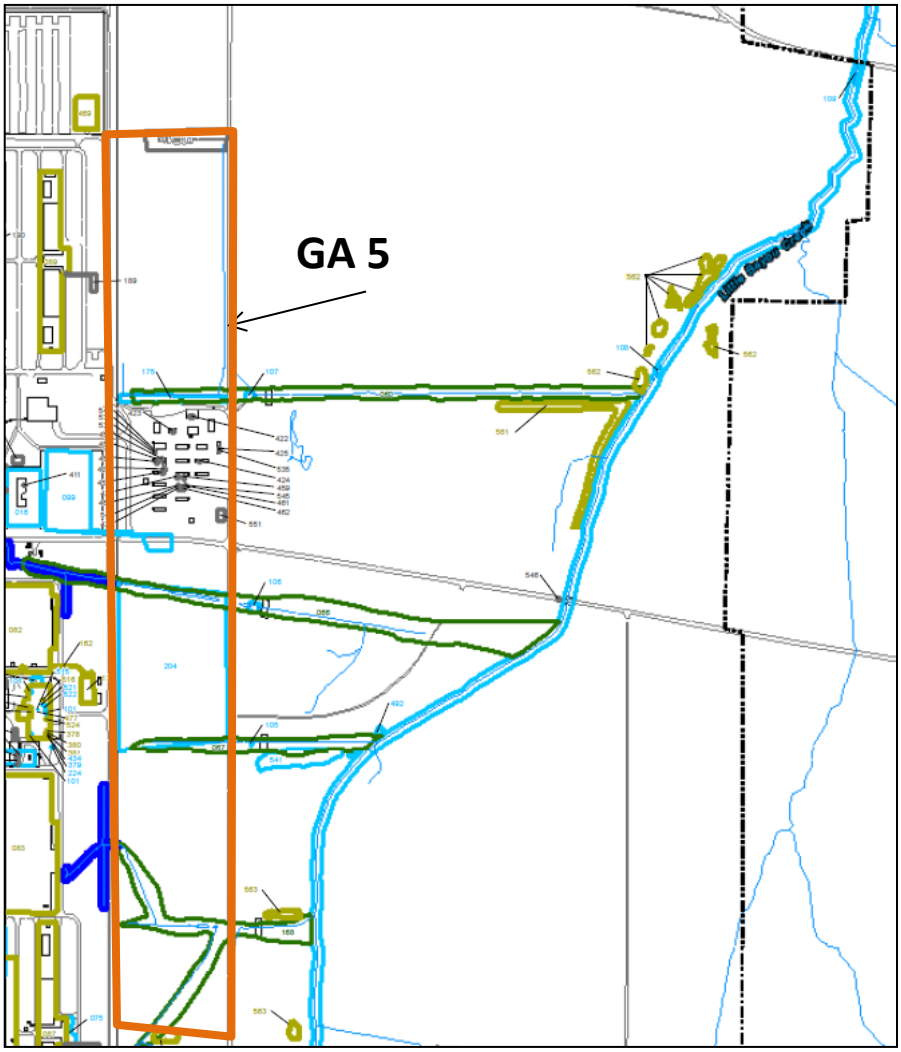
Environmental Concerns:

- This area was further investigated as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 567 is sufficient to support decision making and indicates that a feasibility study is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the Work Plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Geographical Area (GA) 5



- ✓ Includes buffer area between the plant limited area and Dyke Road
- ✓ Includes the C-755 facilities area
- ✓ 28 total SWMUs/AOCs
  - ✓ 22 NFA SWMUs/AOCs
  - ✓ 1 Soils Remedial SWMUs/AOCs
  - ✓ 5 Surface Water SWMUs/AOCs, which Includes 4 Permitted Outfalls (002, 010, 011, 012)

Geographical Area (GA) 5

Utilities Infrastructure (UI)

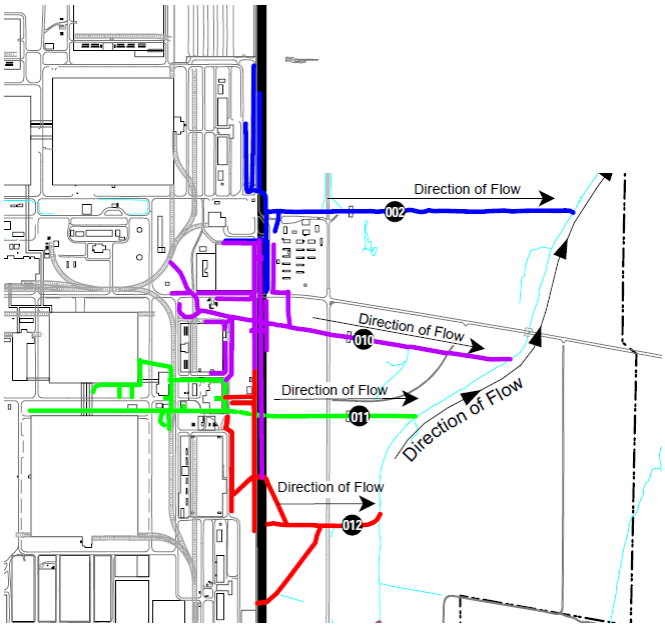
- C-375-E2 KPDES Outfall 002 (SWMU 60)
- C-375-E3 KPDES Outfall 010 (SWMU 66)
- C-375-E4 KPDES Outfall 011 (SWMU 67)
- C-375-E5 KPDES Outfall 012 (SWMU 168)

Mission Support Facilities (MS)

- C-755-A Maintenance Shop
- C-755-B Change House
- C-755-C EM Storage Facility
- C-755-D EM Construction Portal
- C-755-E, F, G, H Storm Shelters
- C-755-U, V, W, Z Trailers
- C-755-T01-07, 08A, 09-12, 16-23, 26-28 Trailers

Other SWMUs/AOCs (non-NFA)

- SWMU 204 Dyke Road Historical Staging Area
- SWMU 175 Concrete Rubble Pile (28)



KPDES Outfalls 002, 010, 011, 012 (DEA)

Environmental Concerns:

- SWMUs 60, 66, 67, 168
- Various plant contaminants (radionuclides, PCBs, TCE, etc.) have been discharged through these outfalls

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Consolidate the two KPDES permits

Outfall	Discharge Source	Contributing Process
002	C-360, C-637, C-337-C	Once-through cooling water, roof and floor drains, sink drains, and extended aeration sewage treatment system.
010	C-531, C-331	Switchyard runoff, roof and floor drains, and condensate sink drains.
011	C-340, C-533, C-532, C-315, C-333, C-331	Previously through cooling water, roof and floor drains, switchyard runoff, condensate, and sink drain; currently rainfall runoff.
012	C-633, C-533, C-333-A	Roof, floor, and sink drains, condensate, surface runoff, and extended aeration sewage treatment system.

C-755 Trailer Complex

C-755-A, E, F, G, H, U, V, W, Z (INF)
C-755-B, C, D, T01-04, T06, T07, T09-12, 16, 21, 23, 24 (REM)
C-755-T-08A, 17, 18, 19, 20, 22, 26, 27, 28 (INF)
C-755-T05 (DUF6)

Facility Information

44,316 ft^2

This complex consists of 4 storm shelters, a maintenance shop and shed, a change house, storage facility, and construction portal, sheds, and 23 trailers. It is located in outside the limited area on the east side of PGDP. Additionally there is a metal car port and a salt storage area.

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- DOE contractors utilize the complex for office space and change trailer for personnel

AOC 204 Dykes Road Historical Staging Area (REM)

Facility Information

Approximately 3 acres

The AOC is located between the plant security fence on the west and Dyke Road on the east and KPDES Outfalls 010 and 011 on the north and south, respectively.

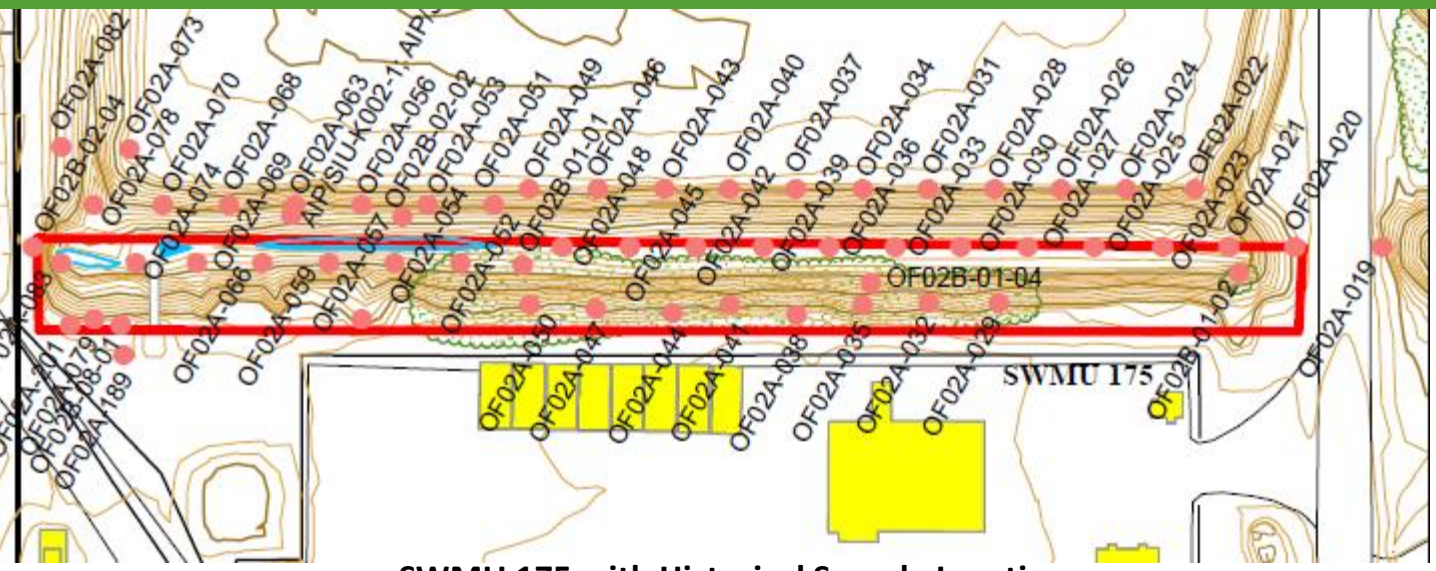
The area is covered with heavy vegetation and several trees. A small ditch (approximately 4-ft wide and 3-ft deep) is situated across the mound from north to south. The surface of AOC 204 is undulating, with elevations ranging from 364 to 382 ft above mean sea level.

Environmental Concerns:

- Types of debris identified on the mound include asphalt, concrete, telephone poles, railroad ties, and cable
- Recently sampled with Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025



SWMU 175 with Historical Sample Locations

Facility Information

400 ft x 20 ft

The material at SWMU 175 consists of concrete rubble from PGDP. The concrete has been placed on the ditch bank to provide erosion control; however, the volume of concrete has not been determined.

SWMU 175 Concrete Rubble Pile

(REM)

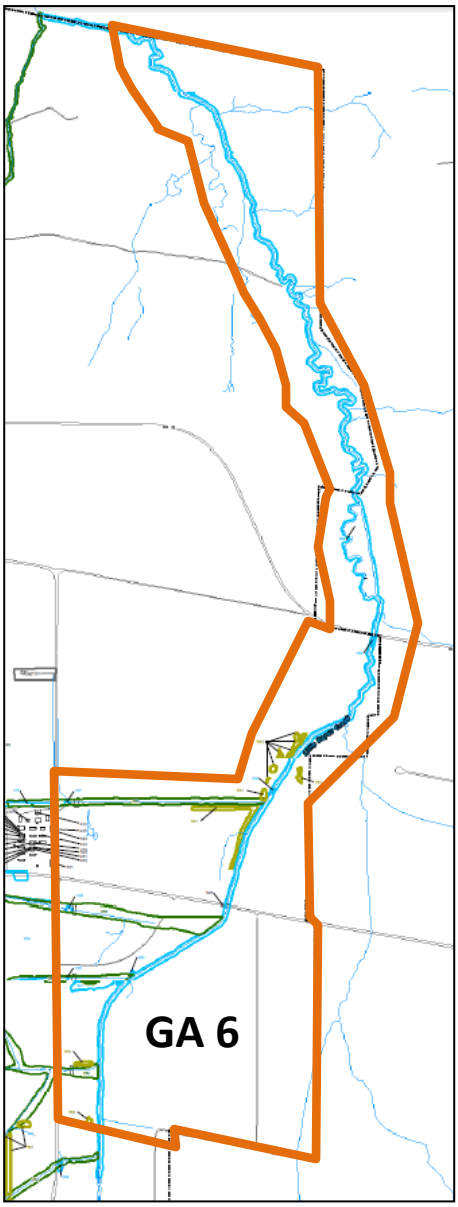
Environmental Concerns:

- None identified

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI, scheduled for 2029

Geographical Area (GA) 6



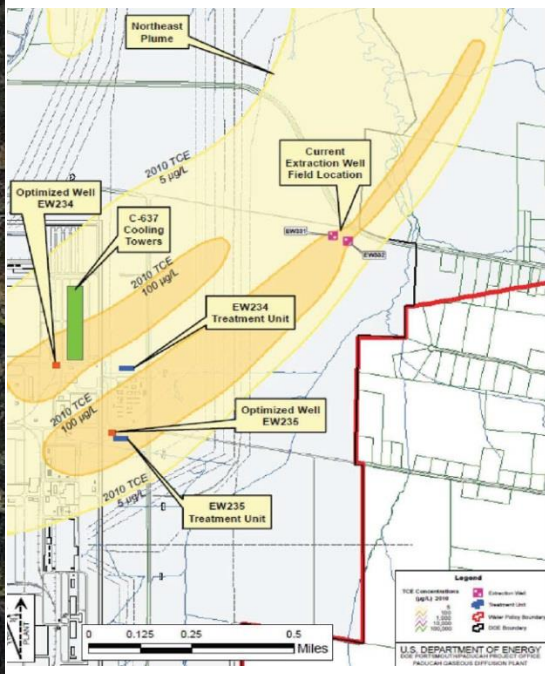
- ✓ Includes outfalls to Little Bayou Creek and banks and creek area to the DOE property boundary
- ✓ 10 total SWMUs/AOCs
  - ✓ 1 NFA SWMUs/AOCs
  - ✓ 5 Soils Remedial SWMUs/AOCs, Includes 4 Soil Pile SWMUs/AOCs
  - ✓ 4 Surface Water SWMUs/AOCs

Geographical Area (GA) 6

Remediation Program Facilities
C-614, C-614-A Northeast Plume Groundwater Treatment System

Other SWMUs/AOCs (non-NFA)

- AOC 492
- AOC 541
- AOC 561
- AOC 562
- AOC 563
- SWMU 105
- SWMU 106
- SWMU 108
- SWMU 109



Facility Information

Pursuant to the ROD for Interim Remedial Action of the Northeast Plume at PGDP signed by DOE, EPA, and KDEP in June 1995, DOE currently is operating groundwater extraction wells (EW331 and EW332) and a treatment system at PGDP to initiate hydraulic control of the high concentration area within the Northeast Plume that extends outside the plant security fence. An optimization of the Northeast Plume Treatment System is being negotiated.

The treatment system is designed to remove TCE and 1,1-dichloroethene (1,1-DCE) from extracted groundwater.

Northeast Plume Groundwater Treatment System

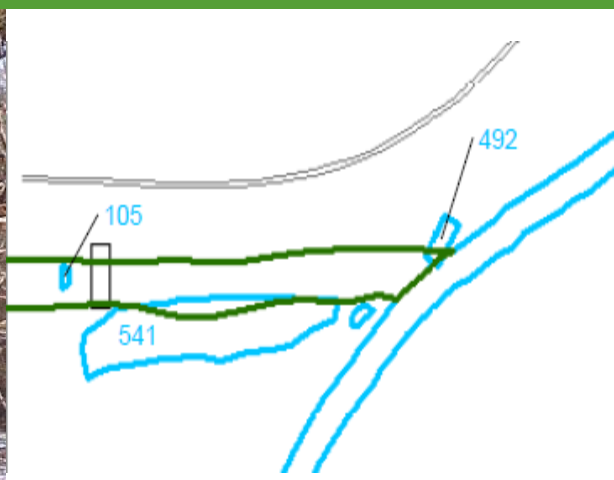
C-614, C-614-A (REM)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use to support site operations



AOC 492 Contaminated Soil Area Near Outfall 010 (REM)

Facility Information

15 ft x 30 ft

The contaminated soil area, north of Outfall 010 (AOC 492) is located east of the plant site, on the banks of Little Bayou Creek.

Environmental Concerns:

- Initial analytical results indicate the presence of metals (chromium), PCBs, and radionuclides (uranium-238)
- This area was investigated further as part of the Soils Operable Unit Remedial Investigation (RI)—refer to RI Report for current data summary
- The representative data set used for SWMU 492 is sufficient to support decision making and indicates that a feasibility study (FS) is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

AOC 541 Contaminated Soil Area South of Outfall 011 (REM)

Facility Information

480 ft x 210 ft

The Contaminated Soil Area South of Outfall 011 (AOC 541) is located in an area of heavy undergrowth, approximately 75 ft from the south bank of Outfall 011. AOC 541 is located east of PGDP, is outside of the secure area.

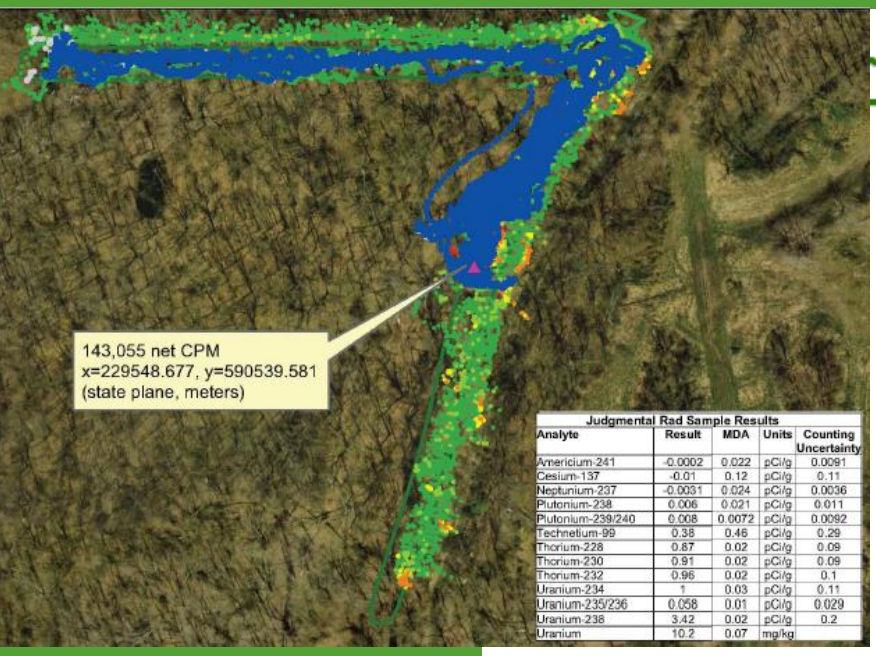
The area consists entirely of soil and grass with trees.

Environmental Concerns:

- Initial analytical results indicate the presence of metals (chromium), PCBs, SVOCs, and radionuclides (uranium-238)
- This area was investigated further as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 541 is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025



Judgmental Rad Sample Results

Analyte	Result	MDA	Units	Counting Uncertainty
Americium-241	-0.0002	0.022	pCi/g	0.0091
Cesium-137	-0.01	0.12	pCi/g	0.11
Neptunium-237	-0.0031	0.024	pCi/g	0.0036
Plutonium-238	0.006	0.021	pCi/g	0.011
Plutonium-239/240	0.008	0.0072	pCi/g	0.0092
Technetium-99	0.38	0.46	pCi/g	0.29
Thorium-228	0.87	0.02	pCi/g	0.09
Thorium-230	0.91	0.02	pCi/g	0.09
Thorium-232	0.96	0.02	pCi/g	0.1
Uranium-234	1	0.03	pCi/g	0.11
Uranium-235/236	0.058	0.01	pCi/g	0.029
Uranium-238	3.42	0.02	pCi/g	0.2
Uranium	10.2	0.07	mg/kg	

SWMU 561 Soil Pile I (REM)

Facility Information

The area of this SWMU is approximately 7 acres.

This SWMU is located east of the PGDP fence and is adjacent to Little Bayou Creek between McCaw Road and Outfall Ditch 002. The footprint of the soil piles within the 7 acre area is approximately 30-ft wide x 700-ft long by an average of 8-ft tall along Outfall Ditch 002 and 30-ft wide x 700-ft long by an average of 8-ft tall along Little Bayou Creek for an estimated total volume of ~ 12,000 yd^3.

There appears to be no function for the soil piles within the SWMU; however, the piles most likely were made from dredged material produced as a result of maintenance activities performed within or along the ditch and creek.

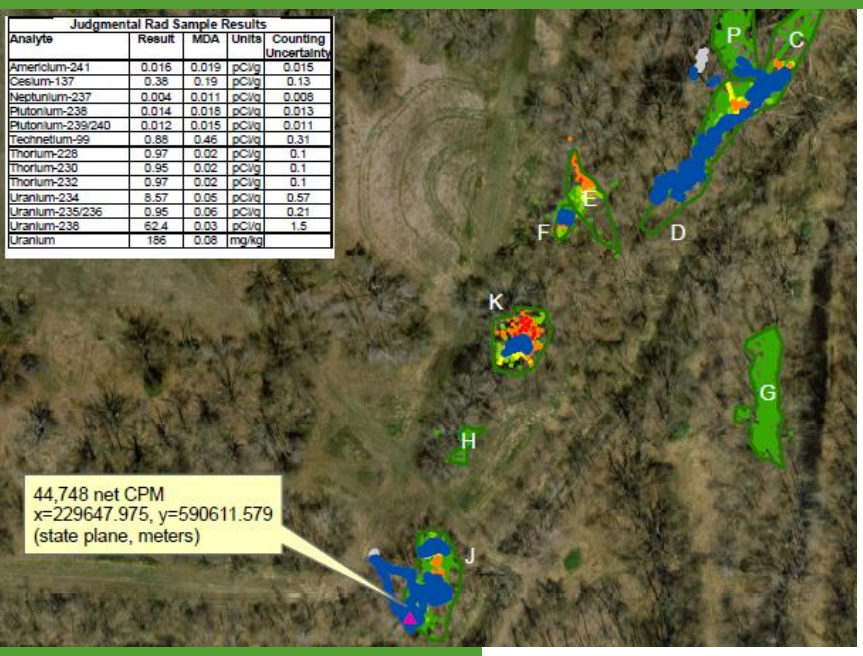
Environmental Concerns:

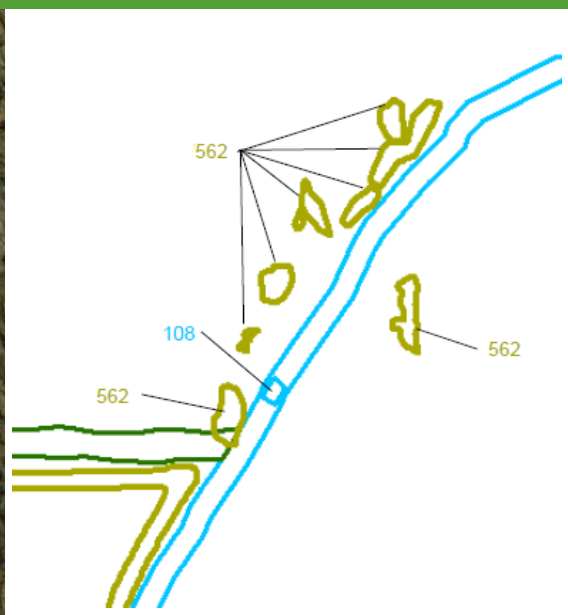
- This area was investigated further as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for SWMU 561 is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Judgmental Rad Sample Results				
Analyte	Result	MDA	Units	Counting Uncertainty
Americium-241	0.016	0.019	pCi/g	0.015
Cesium-137	0.38	0.19	pCi/g	0.13
Neptunium-237	0.004	0.011	pCi/g	0.008
Plutonium-238	0.014	0.018	pCi/g	0.013
Plutonium-239/240	0.012	0.015	pCi/g	0.011
Technetium-99	0.88	0.46	pCi/g	0.31
Thorium-228	0.97	0.02	pCi/g	0.1
Thorium-230	0.95	0.02	pCi/g	0.1
Thorium-232	0.97	0.02	pCi/g	0.1
Uranium-234	8.57	0.05	pCi/g	0.57
Uranium-235/236	0.95	0.06	pCi/g	0.21
Uranium-238	62.4	0.03	pCi/g	1.5
Uranium	186	0.08	mg/kg	





AOC 562 Soil Piles C, D, E, F, G, H, J, K, and P (REM)

Facility Information

Soil Pile D consists of two soil piles separated by a distance of 8 ft. The larger of the two piles is shaped like a saddle having two peaks, one at either end and is approximately 60-ft long by 30-ft wide. The first peak represents an approximate cone-shaped sub-pile that is 45 ft by 30 ft by 12-ft high. The second peak represents an approximate cone-shaped sub-pile that is 15 ft by 30 ft by 8-ft high. The second discrete pile is approximately 7.5 ft by 7.5 ft by 4-ft high. Soil Pile H consists of one small pile approximately 8 ft by 2 ft by 1-ft high. Soil Pile J consists of two soil piles. The first pile is approximately cone-shaped and is 25 ft by 25 ft by 6-ft high. The second pile is shaped like an "L" on the ground and a saddle vertically, having two peaks, one at either end of the "L" covering an area of approximately 62.5 ft by 37.5 ft with a maximum height at both high points of 5 ft.

Environmental Concerns:

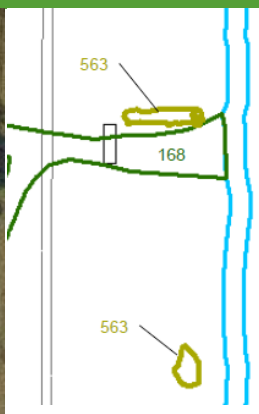
- Initial sampling results identified uranium and PCBs present above the "no-action" levels for screening criteria
- This area was investigated further as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for AOC 562 is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Judgmental Rad Sample Results

Analyte	Result	MDA	Units	Counting Uncertainty
Americium-241	0.003	0.037	pCi/g	0.019
Cesium-137	0.05	0.2	pCi/g	0.093
Neptunium-237	0.0011	0.02	pCi/g	0.0089
Plutonium-238	0.003	0.023	pCi/g	0.011
Plutonium-239/240	0.0073	0.0066	pCi/g	0.0084
Technetium-99	0.29	0.41	pCi/g	0.26
Thorium-228	0.98	0.02	pCi/g	0.1
Thorium-230	0.9	0.007	pCi/g	0.09
Thorium-232	0.82	0.007	pCi/g	0.09
Uranium-234	0.86	0.03	pCi/g	0.11
Uranium-235/236	0.076	0.028	pCi/g	0.038
Uranium-238	1.26	0.02	pCi/g	0.13
Uranium	3.77	0.06	mg/kg	



Facility Information

Soil Pile 20 consists of one conical-shaped small pile approximately 25 ft by 25 ft by 6-ft high. Soil Pile BW consists of one rectangular-shaped pile approximately 150 ft by 25 ft generally uniform in height, approximately 5 ft, with an irregular surface. Soil Pile CC is a large soil pile approximately 75 ft by 25 ft by 3-ft high.

AOC 563 Soil Piles 20, CC, BW

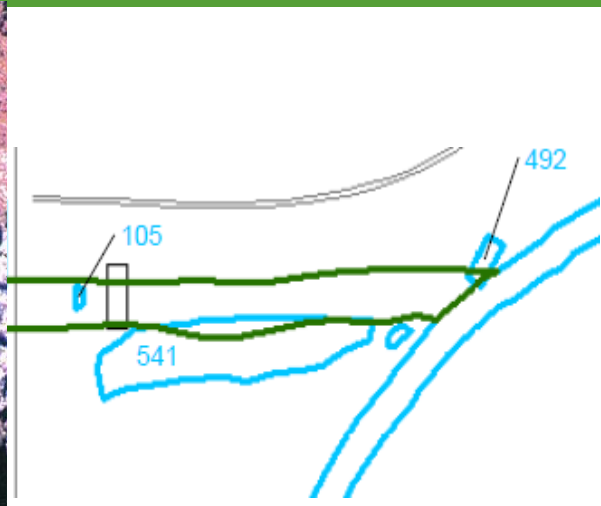
(REM)

Environmental Concerns:

- Chromium was found in soil pile 20, PCBs were found at soil pile BW, and uranium-238 was found in soil pile CC
- This area was investigated further as part of the Soils Operable Unit RI—refer to RI Report for current data summary
- The representative data set used for AOC 563 is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025



SWMU 105 Concrete Rubble Pile (3)

(REM)

Facility Information

SWMU 105 (Rubble Dam Pile 3) is approximately 20-ft long and 10-ft wide. Materials at the site include concrete slabs, bed gravel, and dirt from PGDP road construction spoils. The concrete is partially buried, but approximately 50 yd^3 of concrete pieces is visible.

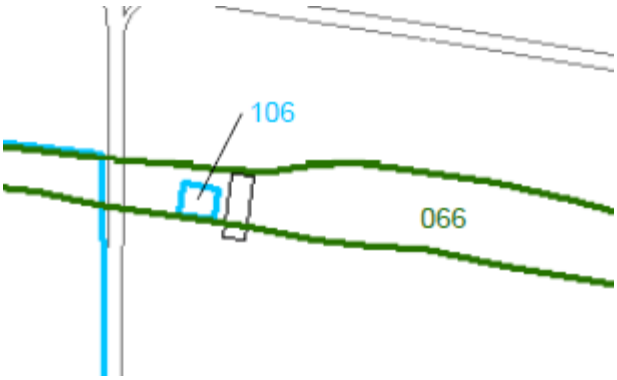
Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029

Material Removed



SWMU 106 Concrete Rubble Pile (4)

(REM)

Facility Information

SWMU 106 (Rubble Dam Pile 4) is approximately 25-ft long and 15-ft wide. Material at the site consisted of concrete slabs from PGDP road construction spoils. The concrete was partially buried.

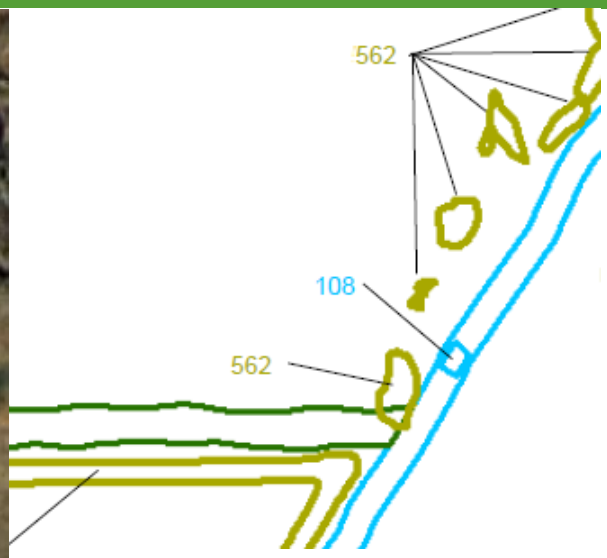
The dam at SWMU 106 was removed and replaced in 2010. Soil underneath each dam was sampled prior to constructing the new dam with clean materials. The waste generated from the dam removals was characterized and disposed of at the C-746-U Landfill.

Environmental Concerns:

- After replacement of the rubble dam in 2010, sampling results indicate uranium-238 was detected just above background (1.2 pCi/g in surface and subsurface) at 1.33 pCi/g. PCBs were detected at 11 ppb

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029



SWMU 108 Concrete Rubble Pile (6) (Horse Crossing)

(REM)

Facility Information

20 ft x 20 ft x 10 ft

Culvert pipes are two 8-ft diameter steel pipes.

SWMU 108 is located at the horse trail culvert near the confluence of Little Bayou Creek and the ditch leading from KPDES Outfall 002.

It provides crossing of Little Bayou Creek for hunters or field trial people riding horses.

Environmental Concerns:

- Radiological contamination
- PCBs

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029

SWMU 109 Concrete Rubble Pile (7)

(REM)

Facility Information

SWMU 109 is located near the water sampling station on Little Bayou Creek (SWMU 64) at Ogden Landing Road (Kentucky Highway 358) in the vicinity of the eastern boundary of the DOE Reservation.

The material at SWMU 109 is composed of concrete slabs and rubble from PGDP street maintenance programs. The approximate volume of concrete is 20 yd^3. The pieces of concrete sit in the bed of Little Bayou Creek to control erosion near the water sampling station weir.

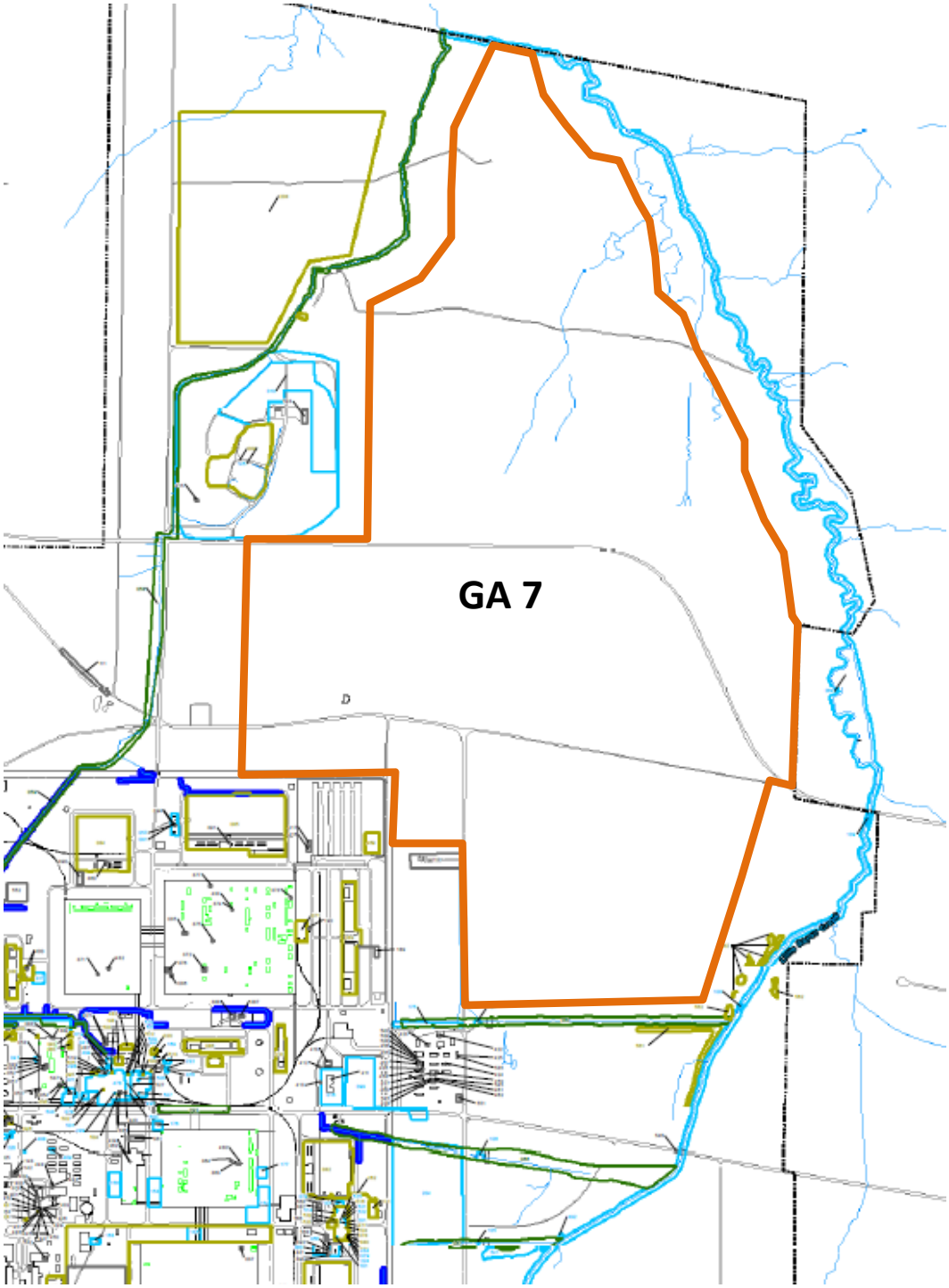
Environmental Concerns:

- Fixed radiological contamination
- PCBs

Near-Term Plans FY 15–FY 17:

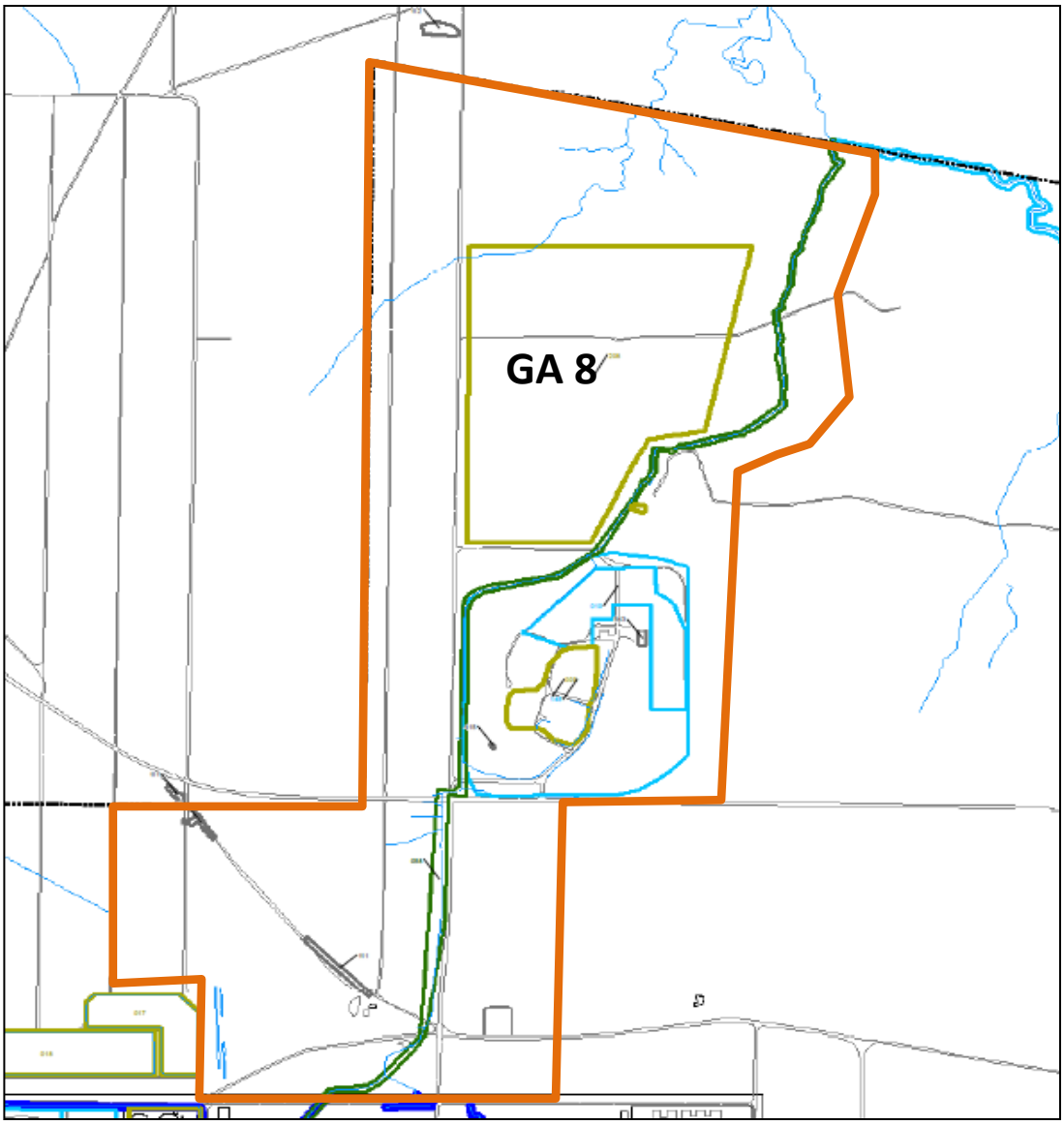
- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029

Geographical Area (GA) 7



✓ This area contains no facilities or SWMUs/AOCs.

Geographical Area (GA) 8



- ✓ 8 total SWMUs/AOCs
  - ✓ 4 NFA SWMUs/AOCS
  - ✓ 3 Permitted Solid Waste Landfills (C-746-S, T, and U)
  - ✓ Sections 3, 4, and 5 of the North-South Diversion Ditch

Geographical Area (GA) 8

Utilities Infrastructure (UI)

C-375-19 KPDES Outfalls 019 and 020

Mission Support Facilities (MS)

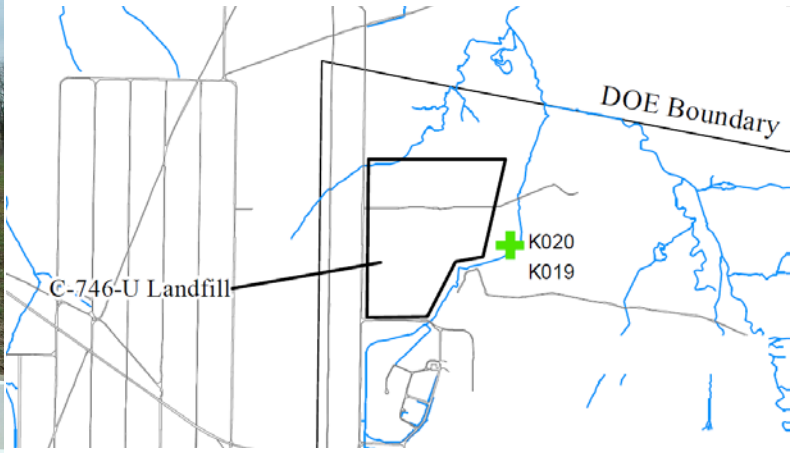
C-746-S1 Landfill Building
C-746-S2 Landfill Building
C-746-S3Landfill Building
C-746-S4 Landfill Building
C-746-U Landfill (SWMU 145)
C-746-U03 Shed
C-746-U04, U05, U06, U07, U08 Sealands
C-746-09 Storage Facility
C-746-U1 Landfill Office Building
C-746-U15 Leachate Treatment Facility
C-746-U16 Leachate Storage Facility
C-746-U2 Landfill Equipment Building
C-746-U3 Landfill Leachate Facility
C-746-U4 Storm Shelter
C-746-U-POND Landfill Holding Pond
C-746-U-S Truck Scale at Landfill
C-746-U-T14 Trailer, Shower
C-762 Storage Area

Remediation Program Facilities (RPF)

C-746-S Residential Landfill (SWMU 9)
C-746-T Inert Landfill (SWMU 10)
Residential/Inert Borrow Area (P-Landfill) (SWMU 145)

Other SWMUs/AOCs (non-NFA)

SWMU 58 North-South Diversion Ditch Outside and KPDES 0013



KPDES Outfalls 019 and 020

C-375-19 (REM)

Outfall	Discharge Source	Contributing Process
019	Landfill north of plant (C-746-U)	Storm water
020	Landfill north of plant (C-746-U), same location as 019	Treated leachate

Environmental Concerns:

- Radionuclides

Near-Term Plans FY 15–FY 17:

- Continue operations to support plant activities
- Consolidate the two KPDES permits

Facility Information

This area includes one office building and three equipment storage buildings.

C-746-S&T Landfill Activities

C-746-S1, S2, S3, S4 (REM)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue utilization to support landfill activities

Facility Information

This area includes one storage shed, four storage building, five Sealands, an office building, a leachate treatment facility, a leachate storage facility, an equipment building, a leachate tank facility, a truck scale, a sedimentation basin, and one trailer.

The landfill opened in 1997 and has helped DOE reduce disposal costs by accepting certain types of waste: sanitary waste, soil and debris, and industrial waste. No hazardous waste is accepted; however, waste with small amounts of radioactivity within the landfill's Authorized Limits is acceptable. No radioactive waste above the Authorized Limits is accepted.

C-746-U Landfill Operations

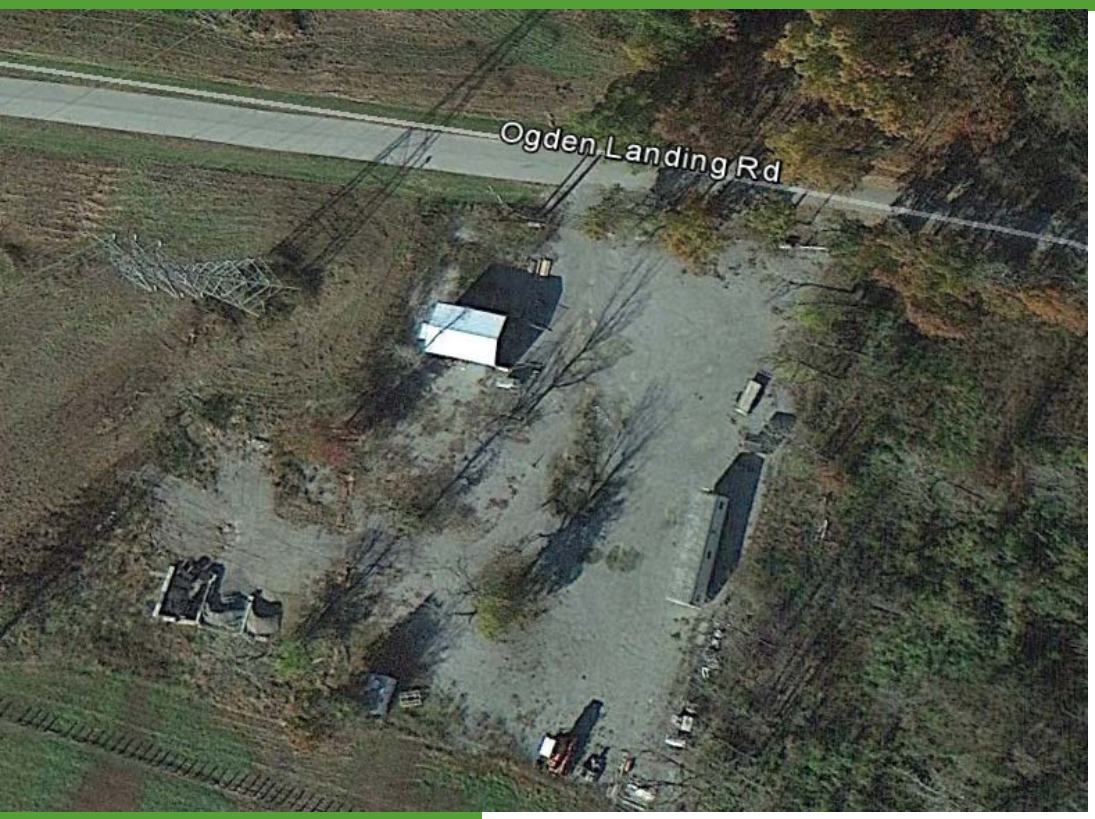
C-746-U, U1, U15, U2, U3, U4, U-POND, U-S, U-T14 U03-U09 (REM)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue operating the permitted landfill for disposal of PGDP solid waste



Facility Information

This area is used to store equipment to support site operations.

C-762 Storage Area

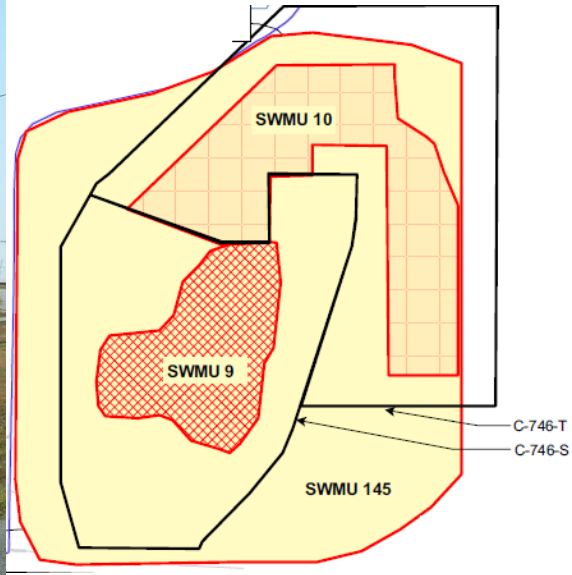
(REM)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use to support site operations

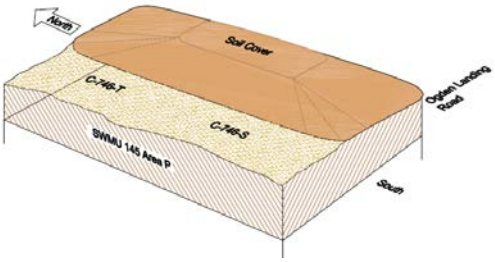


C-746-S Closed Residential Landfill C-746-T Closed Inert Landfills and P Landfill (REM)

Facility Information

P Landfill (SWMU 145) is located north of the PGDP security area and is defined by encompassing SWMUs 9 and 10 (the C-746-S&T Landfills, respectively). The SWMU is approximately 44 acres and began operation in the early 1950s. The area was later permitted for the construction and operation of the C-746-S&T Landfills. Currently, the C-746-S&T Landfills are closed on top of SWMU 145.

SWMU 145 began operation in the early 1950s. This area was used by the contractor during the construction of PGDP to discard all types of scrap and waste materials. Use of the area for discarding of scrap and waste by subcontractors was continued until the early 1980s. Construction debris, such as concrete, roofing materials, wire, wood, shingles with asbestos, and welding rods are expected to have been disposed of in the area.

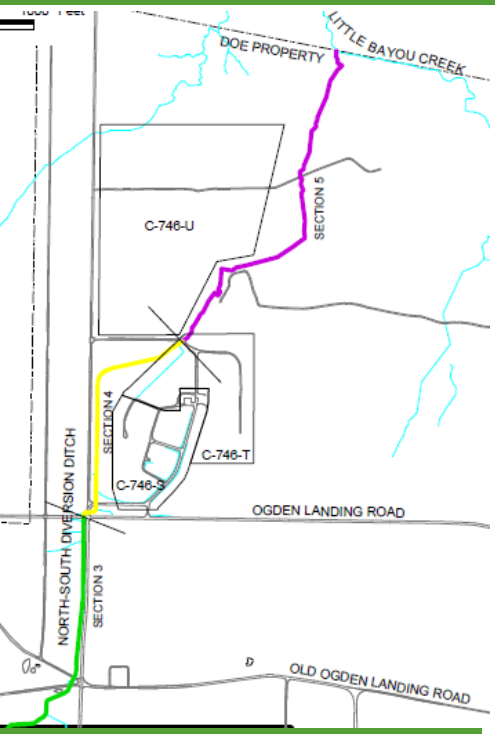


Environmental Concerns:

- SWMUs 9, 10, and 145
- Groundwater monitoring indicates that TCE and PCBs are in the vicinity of the landfills
- Part of Burial Grounds Operable Unit (BGOU)

Near-Term Plans FY 15–FY 17:

- Continue closure requirements as specified in the C-746-S&T Landfills permit
- BGOU remedial action baselined in 2029



SWMU 58 North-South Diversion Ditch (NSDD) Sections 3, 4, and 5, including former KPDERS Outfall 003 (REM)

Facility Information

Historically, the NSDD received wastewater from the C-400 Cleaning Building, coal pile runoff, and storm water. The primary functions of the C-400 Cleaning Building included cleaning, metal plating, metals recovery, radioactive materials stabilization and recovery, uranium trioxide production, diffusion process equipment testing, and uranium tetrafluoride (green salt) pulverization.

In 1977, the C-616-C Lift Station was constructed approximately 145 m (475 ft) upstream of the plant security fence. This lift station diverts all normal flow from upstream locations in the NSDD to the C-616-F Full Flow Lagoon for settlement of suspended solids prior to discharge through the KPDES Outfall 001 ditch system to Bayou Creek.

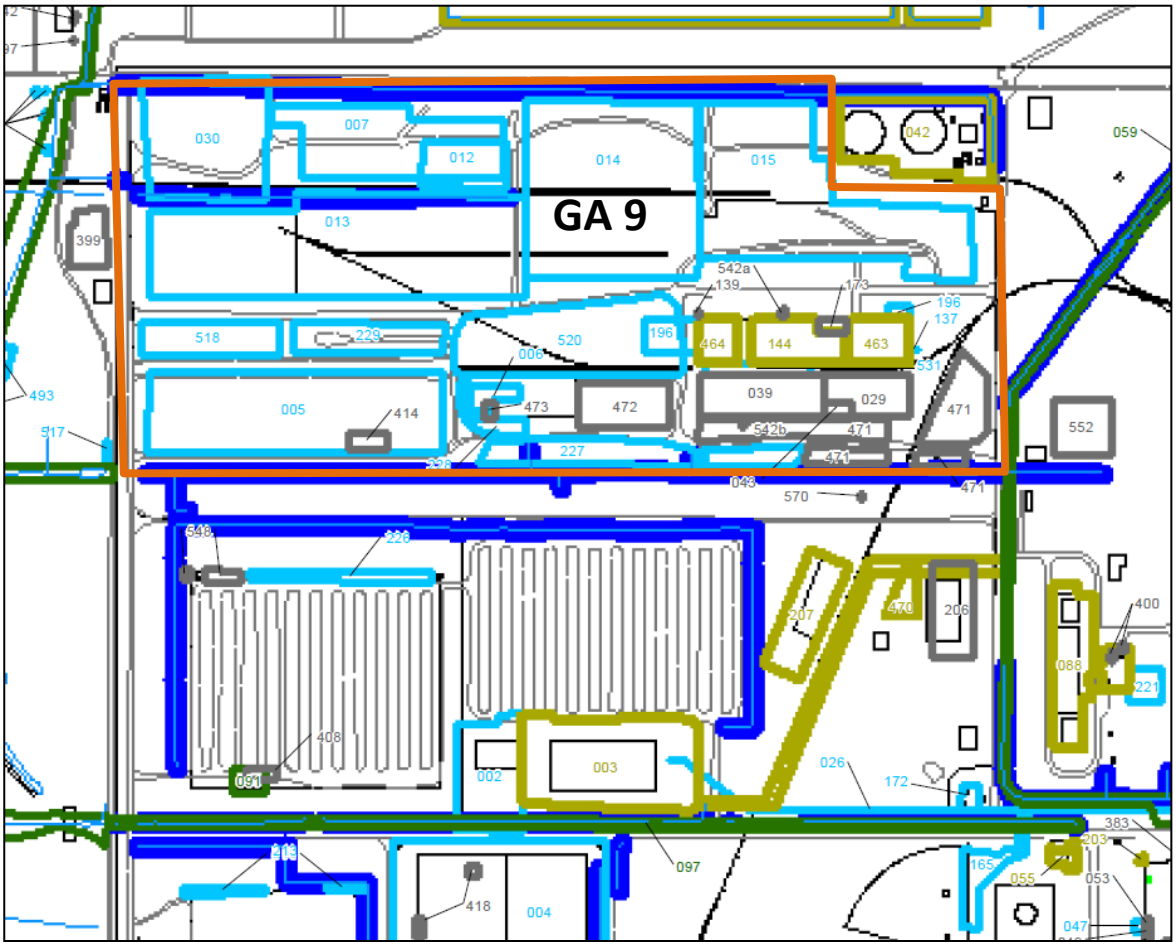
Environmental Concerns:

- The NSDD was addressed as part of the Surface Water Operable Unit (Off-site) Removal Action
- NSDD, four exposure units (EUs) (EUs 01, 02, 03, and 08) containing 40 remedial units (RUs), over an area of approximately 5,200 yd^2, was addressed. At the majority of the RUs, soil/sediment was removed to a depth of 2 ft
- At the completion of excavation activities, the gross alpha and field screening results indicated that all RUs that were excavated were below the respective action limits, and verification sample results indicated that the cleanup levels had been achieved
- From NSDD Sections 3 and 5, a total of 6,956 yd^3 of soil, sediment, and debris was removed
- One RU (RU 12 at EU 02) was not addressed due to the presence of a high pressure gas line immediately underneath

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water Operable Unit RI scheduled for 2029

Geographical Area (GA) 9



- ✓ 2 Warehouses
- ✓ 5 Support Trailers
- ✓ Nickel Ingot Storage Area
- ✓ 32 total SWMUs/AOCs
  - ✓ 14 NFA SWMUs/AOCS
  - ✓ 4 Burial Grounds
  - ✓ 3 Scrapyards
  - ✓ 3 Soils and Slabs/Gaseous Diffusion Plant (GDP) Decontamination and Decommissioning (D&D) SWMUs/AOCs
  - ✓ 8 Soils Remedial SWMUs/AOC

Geographical Area (GA) 9

Mission Support Facilities (MS)

- C-746-A North Warehouse (Remaining Portion)
- C-746-B South Warehouse
- C-746-P-T01 Office Trailer
- C-746-P-T03 Office Trailer
- C-746-P-T04 Shower/Change Trailer
- C-746-P-T05 Shower/Change Trailer
- C-747-A-T01 Office Trailer

Remediation Program Facilities (RPF)

- SWMU 5 C-746-F Classified Burial Ground
- SWMU 6 C-747-B Burial Area
- SWMU 7 C-747-A Burial Ground
- SWMU 13 C-746-P and P1 Clean Scrap Yard
- SWMU 14 C-746-E and E1 Contaminated Scrap Yard
- SWMU 15 C-746-C and C1 Scrap Yard
- SWMU 30 C-747-A Burn Area
- C-746-H4 Nickle Ingot Storage Area

Other SWMUs/AOCs (non-NFA)

- SWMU 137 C-746-A Inactive PCB Transformer Sump Area
- SWMU 196 C-746-A Septic System
- SWMU 227 Outside DOE Material Storage Area OS-16
- SWMU 228 Outside DOE Material Storage Area OS-17
- SWMU 299 Outside DOE Material Storage Area OS-18
- SWMU 463 C-746-A East End Smelter Slab and Underlying Soils
- SWMU 464 C-746-A West End Smelter Building Slab and underlying Soils
- SWMU 472 C-746-B Pad
- SWMU 518 Field South of C-746-P1 Clean Scrap Yard
- SWMU 520 C-746-B1 Scrap Material West of C-746-A
- SWMU 531 Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility

Facility Information

C-746-A—42,000 ft^2
C-746-B—71,100 ft^2

These facilities are used for storage to support the remediation program.

Waste Storage Areas

C-746-A, C-746-B (REM)

Environmental Concerns:

- None—Remaining Buildings are NFA

Near-Term Plans FY 15–FY 17:

- Continue use to support remediation program

Facility Information

5,556 ft^2

There are three office trailers and two shower/support trailers.

Trailers

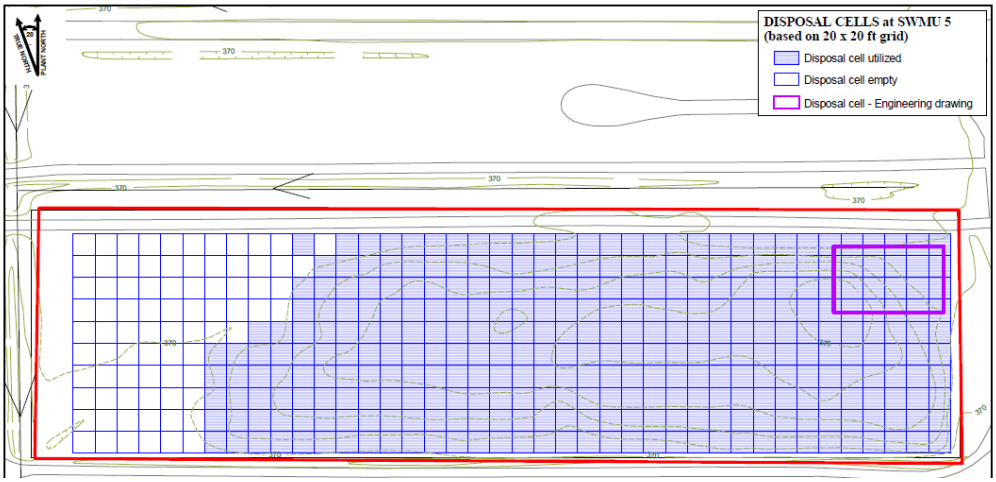
C-746-P-T01, T03, T04, T05, C-747-A-T01 (REM)

Environmental Concerns:

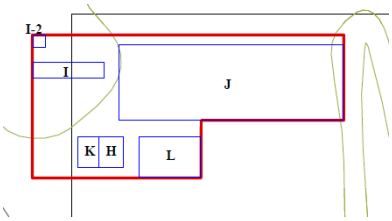
- None

Near-Term Plans FY 15–FY 17:

- Continue use to support remediation program



SWMU 6



Burial Grounds

C-746-F, C-747-B (SWMUs 5 and 6) (REM)

Facility Information

The C-746-F (SWMU 5) Burial Yard is located in the northwestern section of the PGDP secured area. SWMU 5 (which covers an area of approximately 197,400 ft^2) is located adjacent to a scrap yard to the north (C-746-P/P1) and SWMU 6 to the east. Disposal pits were located on a grid system. Documentation of the size of these grids ranges from 10 ft by 10 ft cells to 20 ft by 20 ft cells excavated to a depth of 6 to 15 ft bgs.

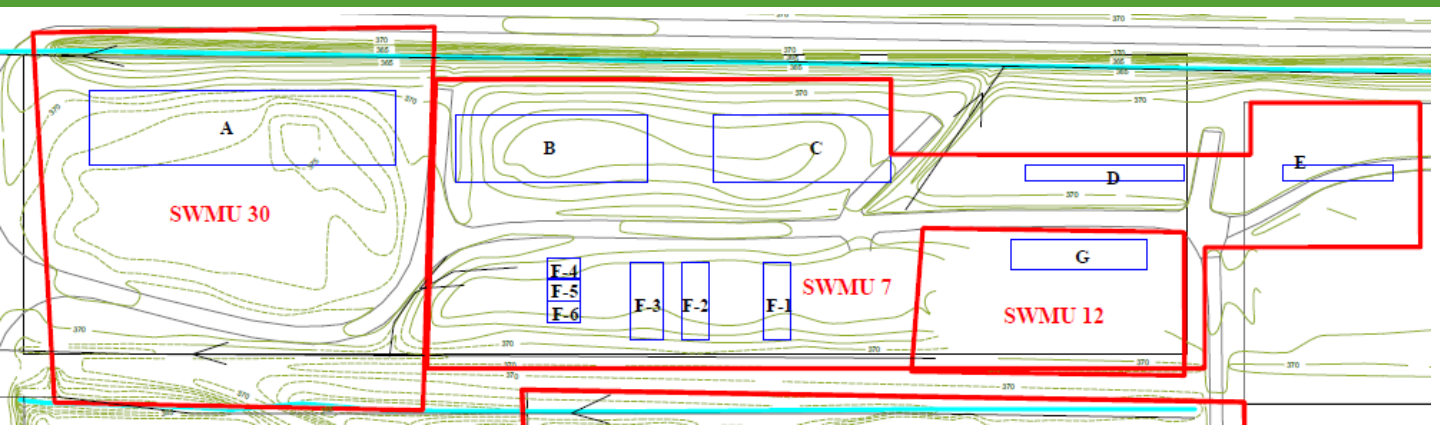
The C-747-B (SWMU 6) Burial Ground is located in the northwestern section of the plant area east of SWMU 5. The entire burial area covers an area of approximately 13,500 ft^2, which is divided into five separate burial cells.

Environmental Concerns:

- Refer to the approved remedial investigation (RI) for nature and extent of contamination
- The feasibility study (FS) for these SWMUs is complete
- The proposed plan is undergoing regulatory review

Near-Term Plans FY 15–FY 17:

- Complete proposed plan and record of decision
- Begin remedial action implementation



Burial Grounds

C-747-A (SWMUs 7 and 30) (REM)

Facility Information

The C-747-A area is located in the northwest corner of the PGDP secured area. SWMU 7 comprises the eastern two-thirds of C-747-A. The SWMU is bounded on the north and south sides by perimeter ditches, on the west side by the C-747-A Burn Area (SWMU 30), and on the east side by the C-746-E Contaminated Scrap Yard. SWMU 7 covers approximately 240,900 ft^2 and includes six discrete burial pit areas. A soils operable unit SWMU, SWMU 12, overlaps a portion of SWMU 7. Any buried material beneath SWMU 12 is considered part of SWMU 7.

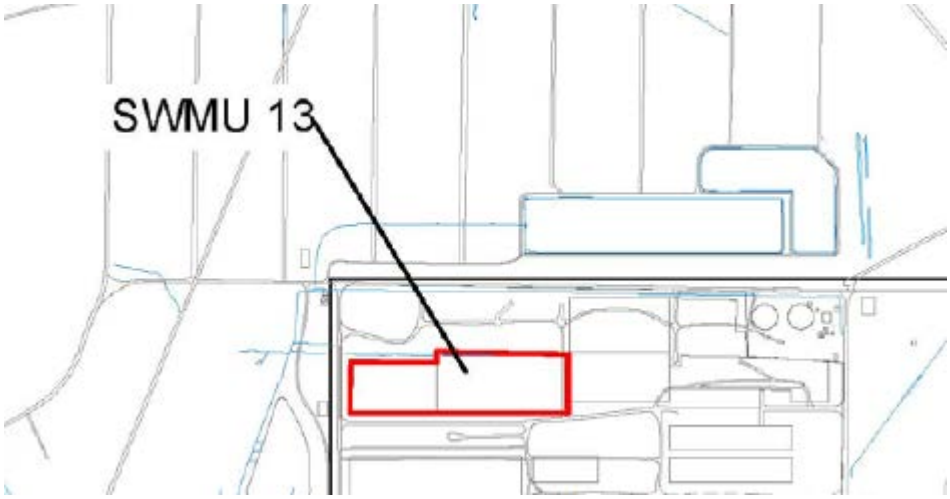
SWMU 30 includes the western one-third of C-747-A. It consists of an historical burn-and-burial pit (Burial Pit A) and the location of a former incinerator. The SWMU is bounded on the north and south sides by ditches, on the west side by a plant road, and on the east side by SWMU 7. The unit encompasses approximately 117,600 ft^2. The pit is reported to have been excavated to a depth of 12 ft and covered with 4 ft of earth.

Environmental Concerns:

- Refer to the approved RI for nature and extent of contamination
- The FS for these SWMUs is undergoing regulatory review

Near-Term Plans FY 15–FY 17:

- Complete FS
- BGOU remedial action baselined in 2024



Scrap Yards

C-746-P, P1 (SWMU 13) (REM)

Facility Information

SWMU 13 is a 294,000-ft^2 area. The SWMU consists of the former C-746-P Clean Scrap Yard, which was used for the storage of clean scrap metal prior to sale. It was divided into east (C-746-P) and west (C-746-P1) units to facilitate the movement and sale of scrap metal.

The storage yard was emptied as specified by the Action Memorandum for Scrap Metal and documented in the Removal Action Report for Scrap Metal.

Environmental Concerns:

- DOE completed a site evaluation report in 2011, which evaluated an additional investigation to determine the extent of any buried material within the SWMU
- The sampling and analysis effort indicated that no burial areas are located in the subsurface soils below 2 ft bgs and that little evidence exists of subsurface disturbance below that level
- In addition, concentrations of analytes detected in soil samples were below the screening levels selected for this project
- SWMU 13 was investigated recently as part of Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

The C-746-E Contaminated Scrap Yard (SWMU 14) is located in the northwest corner of the plant site. SWMU 14 is approximately 265,000 ft^2. C-746-E was used for the storage of uranium-contaminated scrap metal, including ferrous alloys, copper and copper alloys, nickel-plated steel, Monel®, and aluminum from the 1950s through 2005. In addition, Burial Pit E is located under the northeastern section of C-746-E. Burial Pit E was investigated under the BGOU in conjunction with SWMU 7. The storage yard was emptied as specified by the Action Memorandum for Scrap Metal and documented in the Removal Action Report for Scrap Metal.

Scrap Yards

C-746-E, E1 (SWMU 14) (REM)

Environmental Concerns:

- This area was investigated further as part of the Soils OU RI—refer to RI report for current data summary
- The representative data set used is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Scrap Yards

C-746-C (SWMU 15) (REM)

Facility Information

The C-746-C Scrap Yard (SWMU 15) is located in the northwest corner of the plant site. SWMU 15 is approximately 250,000 ft^2. The C-746-C Scrap Yard originally was used to store uncontaminated scrap metal prior to being shipped off-site; however, it was converted to long-term storage of scrap metal after off-site shipments were discontinued. It is divided into north and south areas to segregate the space into two different storage yards. A large portion of the south section was used for storage of ingots produced in the C-746 smelting operations and turnings from the machine shop. Most of the north section was used in the construction of the C-616 Chromate Treatment Facility and clarifiers.

The storage yard was emptied as specified by the Action Memorandum for Scrap Metal and documented in the Removal Action Report for Scrap Metal.

Environmental Concerns:

- SWMU 15 was investigation recently as part of Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

C-746-H4 Nickel Ingot Storage Area

(REM)

Facility Information

The East End Smelter created 9,700 tons of nickel ingots volumetrically contaminated with radionuclides. Estimated value of the nickel exceeds $150 million, but can vary widely based on fluctuating market prices for scrap metals. DOE is evaluating the possibility of having industry reuse/recycle the nickel if it can be decontaminated to meet robust health and safety standards.

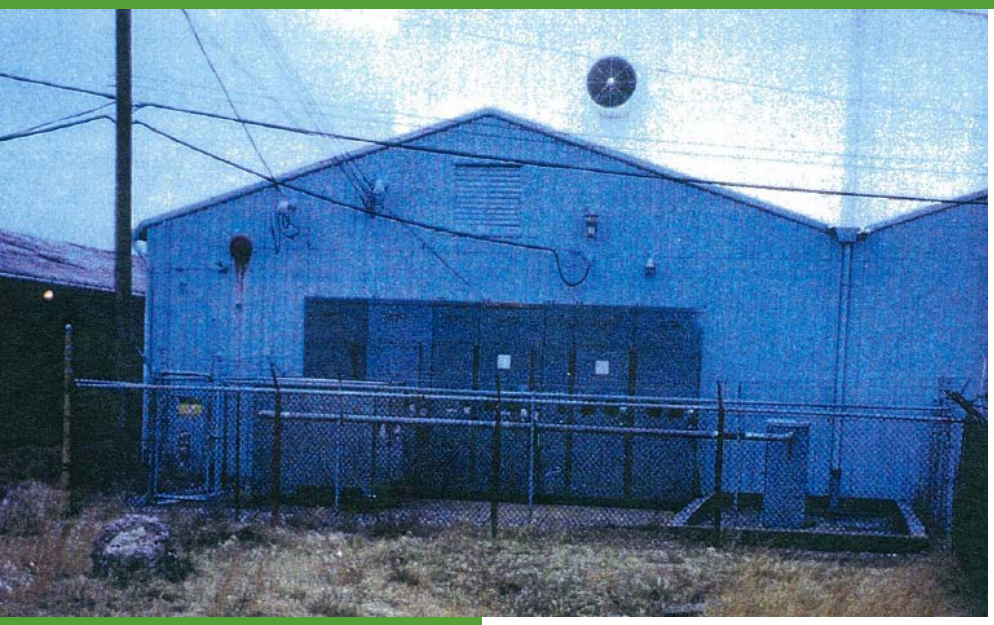
The ingots were made from metal reclaimed during Cascade Improvement Programs in Paducah and Portsmouth in the 1970s and 1980s. Each of the ~ 24-inch by 18-inch ingots weighs about a ton. The ingots are 99.9 percent pure nickel. They have been sampled several times since recasting and contain levels of radionuclides that exceed International Atomic Energy Agency clearance limits.

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue surveillance and maintenance of area



Facility Information

12 ft by 3 ft

The sump area is secondary containment for a transformer. The transformer has been removed. Due to potential impacts on operating electrical systems, closure of SWMU 137 will be delayed until the implementation of the GDP D&D Operable Unit project associated with activities that are post-GDP shutdown.

Until that time, SWMU 137 will be integrated into the plantwide surveillance and maintenance program.

SWMU 137 C-746-A Inactive PCB Transformer Sump Area

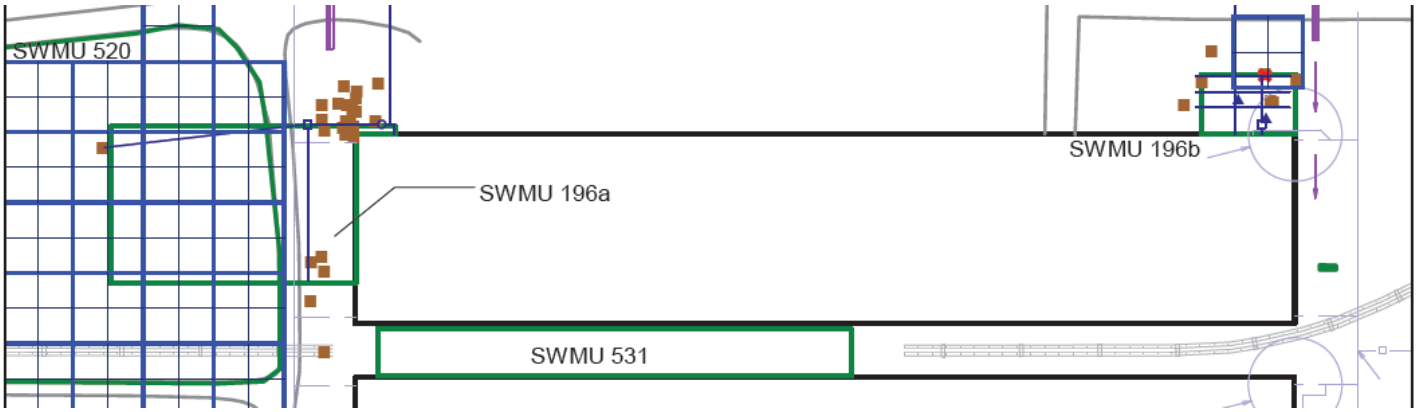
(REM)

Environmental Concerns:

- None known

Near-Term Plans FY 15–FY 17:

- None—to be address as part of the D&D OU
- Continue routine surveillance and maintenance



Facility Information

The C-746-A Septic System (SWMU 196) is located in the northwest portion of the plant site. The C-746-A Septic System consists of two systems: System 1, on the northwest corner of C-746-A, is a 500-gal tank; and System 2, on the northeast corner of C-746-A, is a 950-gal concrete tank and a drainage field 60 ft by 20 ft.

This SWMU is underground; therefore, it has no direct connection to surface water. Both systems were used to process the sanitary waste coming from C-746-A. The systems were abandoned in place in the 1980s. The contents of the septic tanks were removed. The empty tanks were backfilled with clean sand and the site was graded to the surface.

SWMU 196 C-746-A Septic Tank

(REM)

Environmental Concerns:

- This area was investigated further as part of the Soils OU RI—refer to RI report for current data summary
- The representative data set used is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

Former DMSA OS-16 is 37,000 ft^2. This area had been used as a storage area for miscellaneous excess process equipment and UF_6 cylinders since the 1970s.

Former DMSA OS-17 is 10,800 ft^2. DMSA OS-17 was used for the storage of excess mobile industrial equipment, which originally was slated for auction. Equipment at this location included forklifts, tow motors, pump trucks, and concrete culverts.

Former DMSA OS-18 is 48,000 ft^2. The DMSA stored scrap metal, concrete, fireproof safes, portable work platform, empty trash cans, empty 55-gal drums, miscellaneous equipment and parts, road signs, manhole covers, scaffolding, railroad ties, fans, chain link fencing, two small metal buildings, parts from railroad cars, waste oil, and low-level waste.

Outside DOE Material Storage Areas

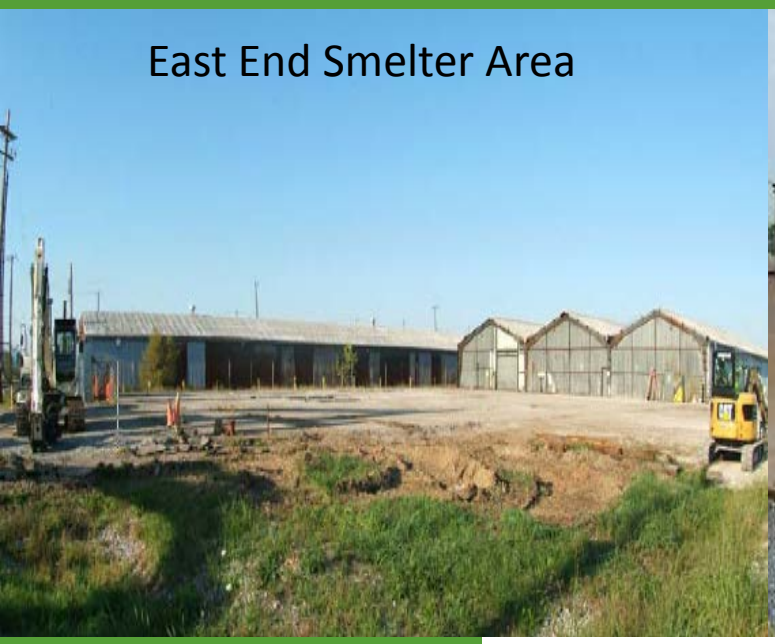
OS-16, OS-17, OS-18 (REM)

Environmental Concerns:

- SWMU 227 (OS-16)—A certified RCRA Closure Report was approved by Kentucky on February 13, 2007, for this DMSA
- SWMUs 227 and 228 were investigated further as part of the Soils OU RI—Refer to RI report for current data summary
- SWMU 229 was sampled recently with Soils RI 2
- The representative data sets used are sufficient to support decision making and indicate that an FS is appropriate for SWMUs 227 and 228
- Possible remedial technologies applicable for these units, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025


East End Smelter Area

West End Smelter Area

Facility Information

The C-746-A West End Smelter (SWMU 464) structure was located in the northwest portion of PGDP, off Tenth Street. D&D of the C-746-A West End Smelter was performed as a non-time-critical removal action. The C-746-A West End Smelter Infrastructure removal began on July 9, 2007. The structural demolition was complete on April 30, 2008.

D&D of the C-746-A East End Smelter (SWMU 463) was performed as a non-time-critical removal action and involved removing the siding and demolishing the building structure, including any remaining piping and equipment on the slab and packaging it for disposal. The actual structural demolition of the East End Smelter was initiated on September 8, 2010, and was completed on September 17, 2010.

C-746-A East End and West End Smelter Slabs

(SWMUs 463 and 464) (REM)

Environmental Concerns:

- SWMU 463—C-746-A East End Smelter
- SWMU 464—C-746-A West End Smelter
- Soils adjacent and under slabs may be contaminated with site contaminants as a result of historical operations

Near-Term Plans FY 15–FY 17:

- None—to be address as part of the Soils and Slabs OU

Facility Information

100 ft by 200 ft

SWMU 472 is located inside the plant security fence, west of building C-746-B.

A gravel base was laid in 1999 in this SWMU for temporary storage of various materials and wastes.

SWMU 472 C-746-B Pad

(REM)

Environmental Concerns:

- None known

Near-Term Plans FY 15–FY 17:

- None—to be address as part of the Soils and Slabs OU

Facility Information

35,000 ft^2

The field south of the C-746-P1 Clean Scrap Yard (SWMU 518) is in the northwestern portion of the plant. It is believed to have been used as a temporary storage area for heavy equipment.

SWMU 518 Field South of C-746-P1 Clean Scrap Yard

(REM)

Environmental Concerns:

- This area was investigated further as part of the Soils OU RI—refer to RI report for current data summary
- The representative data set used is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

SWMU 520 Scrap Material West of C-746-A

(REM)

Facility Information

152,000 ft^2

The scrap material west of C-746-A (SWMU 520) is located in the northwestern portion of PGDP.

This SWMU has been used as a storage area for old equipment and materials since the 1970s. Materials stored in this area include old pallets, old equipment (such as tow motors, forklifts, welding rigs and fixtures, vehicles, and vehicle trailers), and wooden saddles from the cylinder yards.

Geophysics surveys were conducted in February 2009 at this location and revealed potential buried material in the area.

Environmental Concerns:

- Annual surveys of the perimeter of this area are performed, and the area currently is posted as a radioactive materials area, although no known releases have occurred
- The area is also listed in the Additional BGOU
- This area was investigated further as part of the Soils OU RI—refer to RI report for current data summary
- The representative data set used is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

30 ft 300 ft

The Aluminum Slag Reacting Area (SWMU 531) is a concrete pad located adjacent to the south side of the C-746-A Hazardous and Mixed Waste Storage Facility, which is located in the northwestern portion of PGDP.

SWMU 531 Aluminum Slag Reacting Area

(REM)

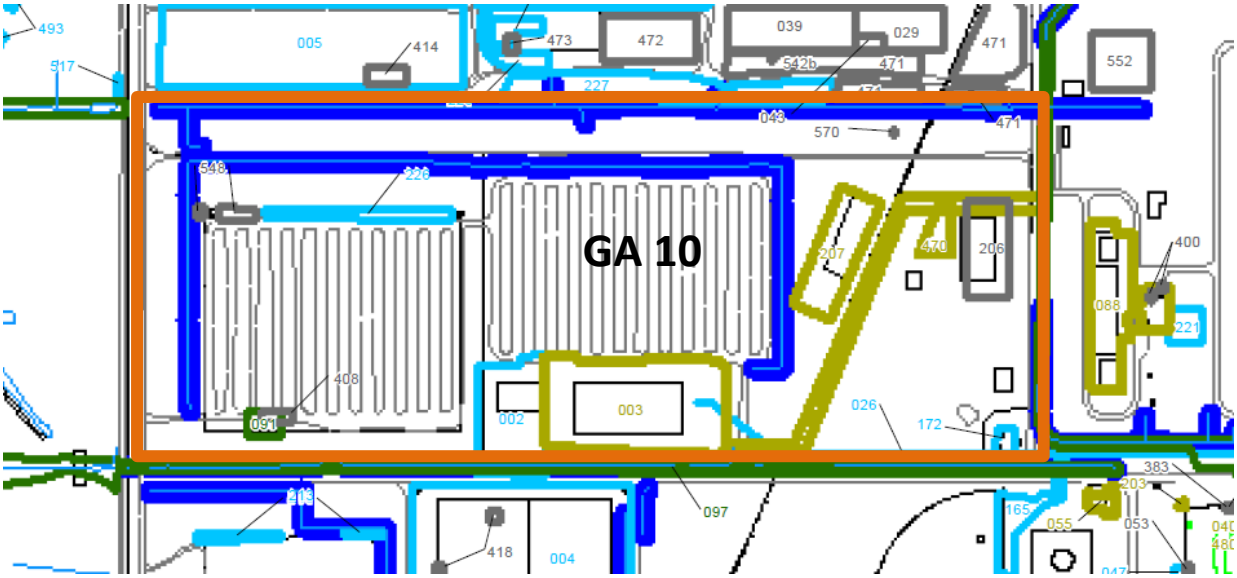
Environmental Concerns:

- This area was investigated further as part of the Soils OU RI—refer to RI report for current data summary
- The representative data set used is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Geographical Area (GA) 10



- ✓ 2 Waste Storage Buildings
- ✓ 1 Active Cylinder Yard
- ✓ 1 Inactive Cylinder Yard
- ✓ 15 total SWMUs/AOCs
  - ✓ 5 No Further Action SWMUs/AOCS
  - ✓ 1 Permitted Waste Storage Facility
  - ✓ 2 Burial Grounds
  - ✓ 1 Record of Decision in Place
  - ✓ 6 Other SWMUs/AOCs

Geographical Area (GA) 10

Mission Support Facilities (MS)

- C-752-A Waste Storage Building (SWMU 207)
- C-753-A TSCA Waste Storage Facility (SWMU 206 NFA)

Cylinder Yards (CYLYD)

- C-742-B Drying Agent Cylinder Storage Building
- C-745-B Cylinder Storage Yard
- C-745 B1 Cylinder Storage Yard Office

Remediation Program Facilities (RPF)

- SWMU 2 C-749
- SWMU 3 C-404 Landfill
- SWMU 91 UF_6 Cylinder Drop Test Area
- C-745-C Former Cylinder Storage Yard

Other SWMUs/AOCs (non-NFA)

- SWMU 26 C-400 to C-404 Underground Transfer Line
- SWMU 97 C-601 Diesel Spill
- AOC 172 C-726 Sandblasting Facility slab and underlying soils
- AOC 200 Soil Contamination South of TSCA Waste Storage Facility
- SWMU 226 Outside DOE Material Storage Area OS-15
- SWMU 470 C-746-V Yard

Facility Information

42,000 ft^2

C-752-A was completed in 1996, this facility is permitted to store Resource Conservation and Recovery Act (RCRA) waste; the facility also stores Toxic Substances Control Act (TSCA), RCRA, and low-level waste.

The facility houses an activated carbon filtration unit that removes polychlorinated biphenyls and trichloroethene (TCE) from wastewater before discharge to effluents within permitted levels.

Waste Storage Areas

C-752-A (SWMU 207) (REM)

Environmental Concerns:

- SWMU 207—None
- RCRA-permitted waste storage facility

Near-Term Plans FY 15–FY 17:

- Continue use to support waste management operations

Waste Storage Areas

C-753-A (REM)

Facility Information

32,160 ft^2

C-753-A is a TSCA waste storage facility.

Environmental Concerns:

- SWMU 206—NFA
- None

Near-Term Plans FY 15–FY 17:

- Continue use to support waste management operations

Cylinder Storage Yards

C-745-B (DUF_6)

Yard	Construction Material	Area/Capacity (Approximate)
C-745-B	Compacted DGA	468,000 ft^2 and has a capacity of approximately 8,800 10-ton or 14-ton cylinders

Environmental Concerns:

- Radiological contamination

Near-Term Plans FY 15–FY 17:

- Continue utilization for depleted uranium hexafluoride (DUF_6) storage

C-745-B1 Cylinder Storage Yard Office

(DUF_6)

Facility Information

128 ft^2

This is an office trailer supporting the cylinder program.

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Evaluate to determine if this trailer is needed to support the cylinder program

C-742-B Drying Agent Cylinder Storage Building

(DEA)

Facility Information

255 ft^2

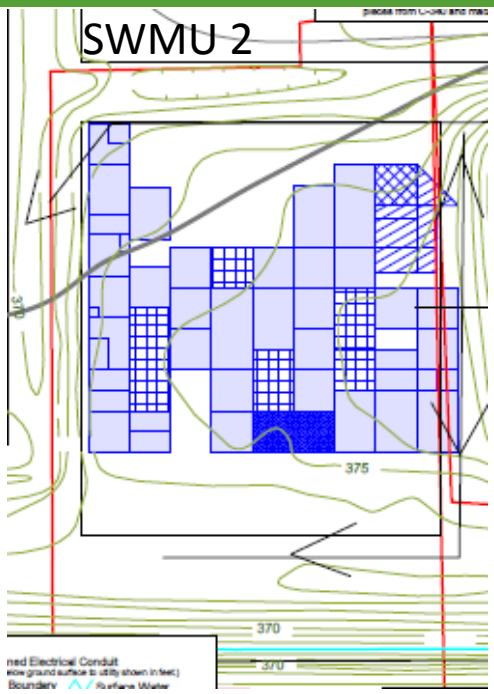
The C-742-B Drying Agent Cylinder Storage Building consists of a covered concrete pad of 255 ft^2. The sheet metal roof is supported by structural steel posts and beams. The facility is located at the northwest comer of the C-745-B Cylinder Storage Yard. It was built 30 to 40 years ago and has been used to store compressed gas cylinders of ClF_3.

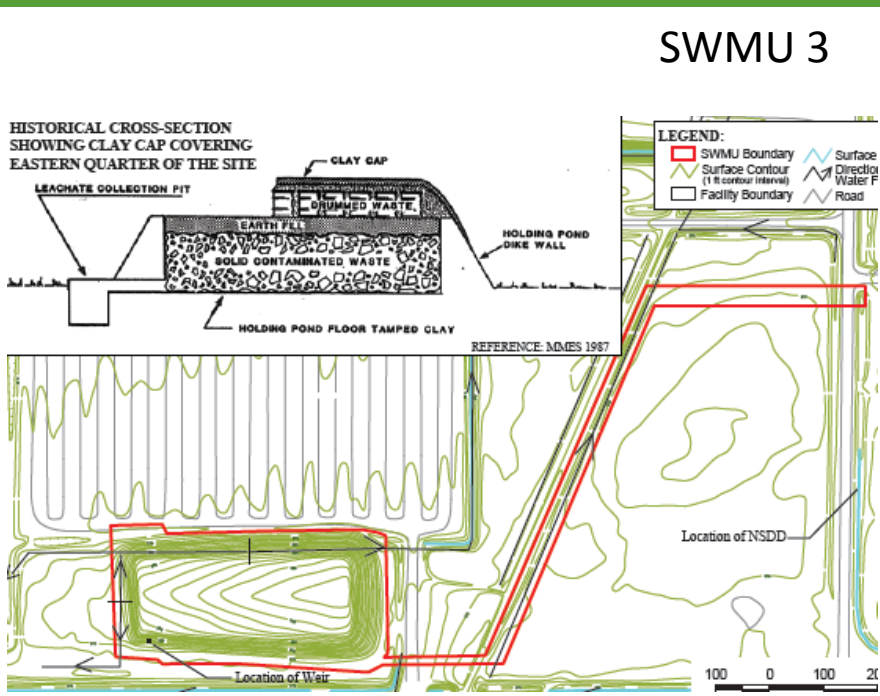
Environmental Concerns:

- Lead-based paint

Near-Term Plans FY 15–FY 17:

- Evaluate to determine if this trailer is needed to support the cylinder program





Facility Information

The C-749 Uranium Burial Ground (SWMU 2) is located within the west-central portion of the plant. SWMU 2 encompasses an area of approximately 32,000 ft^2, with approximate dimensions of 160 ft by 200 ft. Records indicate that when the burial ground was in use, pits were excavated to an estimated depth of 7 ft to 17 ft. After the burial ground no longer was in use, the area was covered with a 6-inch thick clay cap and an 18-inch thick soil layer covered with vegetation

The C-404 Low-Level Radioactive Waste Burial Ground (SWMU 3) is 1.2 acres located in the west central portion of the PGDP secured area. The unit originally was constructed as a rectangular, aboveground surface impoundment measuring 387 ft by 137 ft, with a floor area of approximately 53,000 ft^2. The floor of the surface impoundment was constructed of well-tamped earth, surrounded by clay dikes to a height of 6 ft. The C-404 impoundment was designed with an overflow weir at its southwest corner.

Burial Grounds

(SWMUs 2 and 3) (REM)

Environmental Concerns:

- Refer to the approved RI for nature and extent of contamination

Near-Term Plans FY 15–FY 17:

- Complete FS
- BGOU remedial action baselined in 2022

SWMU 91 UF_6 Cylinder Drop Test Area

(REM)

Facility Information

The Cylinder Drop Test Area (SWMU 91) encompasses approximately 1.7 acres and is located in the extreme west-central area of PGDP on the southern edge of the C-745-B Cylinder Yard. Drop tests were conducted from late 1964 until early 1965 and in February 1979.

DOE selected Lasagna™ for full-scale remediation of the Cylinder Drop Test area and documented this decision in the *Record of Decision for Remedial Action at Solid Waste Management Unit 91 of Waste Area Group 27 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/06-1527&D2.

Environmental Concerns:

- The remedial system operated from December 1999 through December 2001. The results of post-cleanup verification sampling indicated the average concentration of TCE was 0.38 mg/kg, with a maximum concentration of 4 mg/kg
- Refer to remedial action completion report and current five-year review for status

Near-Term Plans FY 15–FY 17:

- Continue operation and maintenance requirements

Former Cylinder Storage Yard

C-745-C (REM)

Facility Information

Approximately 450,000 ft^2

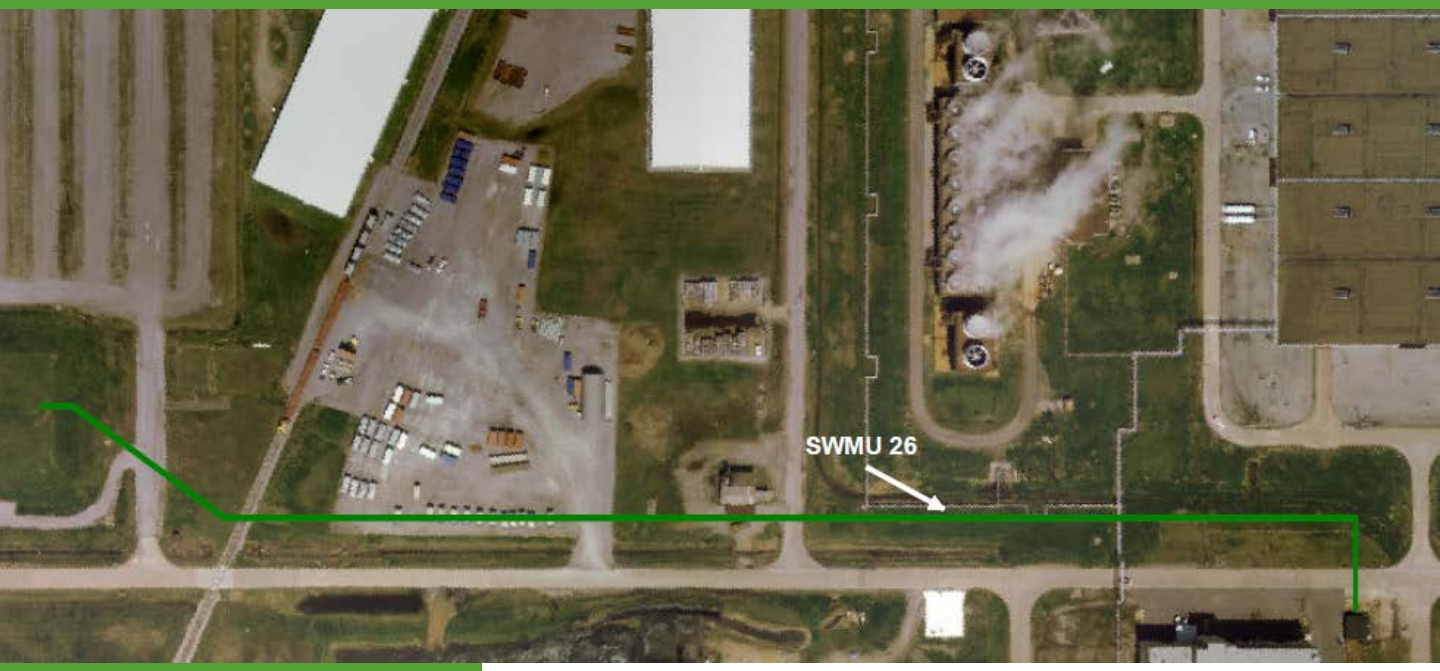
This area was a former cylinder storage yard, but is no longer used.

Environmental Concerns:

- Radiological contamination

Near-Term Plans FY 15–FY 17:

- Continue surveillance and maintenance of area



SWMU 26 C-400 to C-404 Underground Transfer Line

(REM)

Facility Information

The C-400 to C-404 Underground Transfer Line (SWMU 26) is located in the central portion of the plant site. SWMU 26 is a 4-inch steel line, approximately 1,500-ft long. This SWMU runs along Kentucky Pollutant Discharge Elimination System Outfall 015.

From 1951 to 1956, SWMU 26 was used to transfer uranium-contaminated solutions from the C-400 Cleaning Building to the C-404 Lagoon for settling prior to discharge. The transfer line was abandoned in 1957.

Environmental Concerns:

- This area was sampled recently as part of the Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

On March 9, 1979, a spill of approximately 17,000 gal of No. 2 fuel oil occurred at the C-601 fuel oil tank area.

AOC 97 C-601 Diesel Spill

(REM)

Environmental Concerns:

- This area was addressed as part of the Surface Water OU (On-site) Removal Action
- Any remaining risk will be evaluated as part of the Surface Water OU Remedial Action

Near-Term Plans FY 15–FY 17:

- None—Baselined with the Surface Water OU RI scheduled for 2029

Facility Information

45 ft by 40 ft

Building C-726 is a one-story building that was built in 1973 and used to conduct sandblasting operations. The building has a poured-concrete foundation, a gable roof of transite panels, and exterior walls of transite.

The building no longer is used.

AOC 172 C-726 Sandblasting Facility slab and underlying soils

(REM)

Environmental Concerns:

- Soils adjacent and under slabs may be contaminated with site contaminants as a result of historical operations

Near-Term Plans FY 15–FY 17:

- None—to be addressed as part of the D&D OU and the Soils and Slabs OU

Facility Information

The soil contamination south of TSCA Waste Storage Facility (AOC 200) is located in the central portion of the plant site. This area is approximately 282-ft wide by 304-ft long. This AOC was used in the past for placement of dredged material from the North-South Diversion Ditch. This area does not have a connection to a surface water body.

AOC 200 Soil Contamination South of TSCA Waste Storage Facility

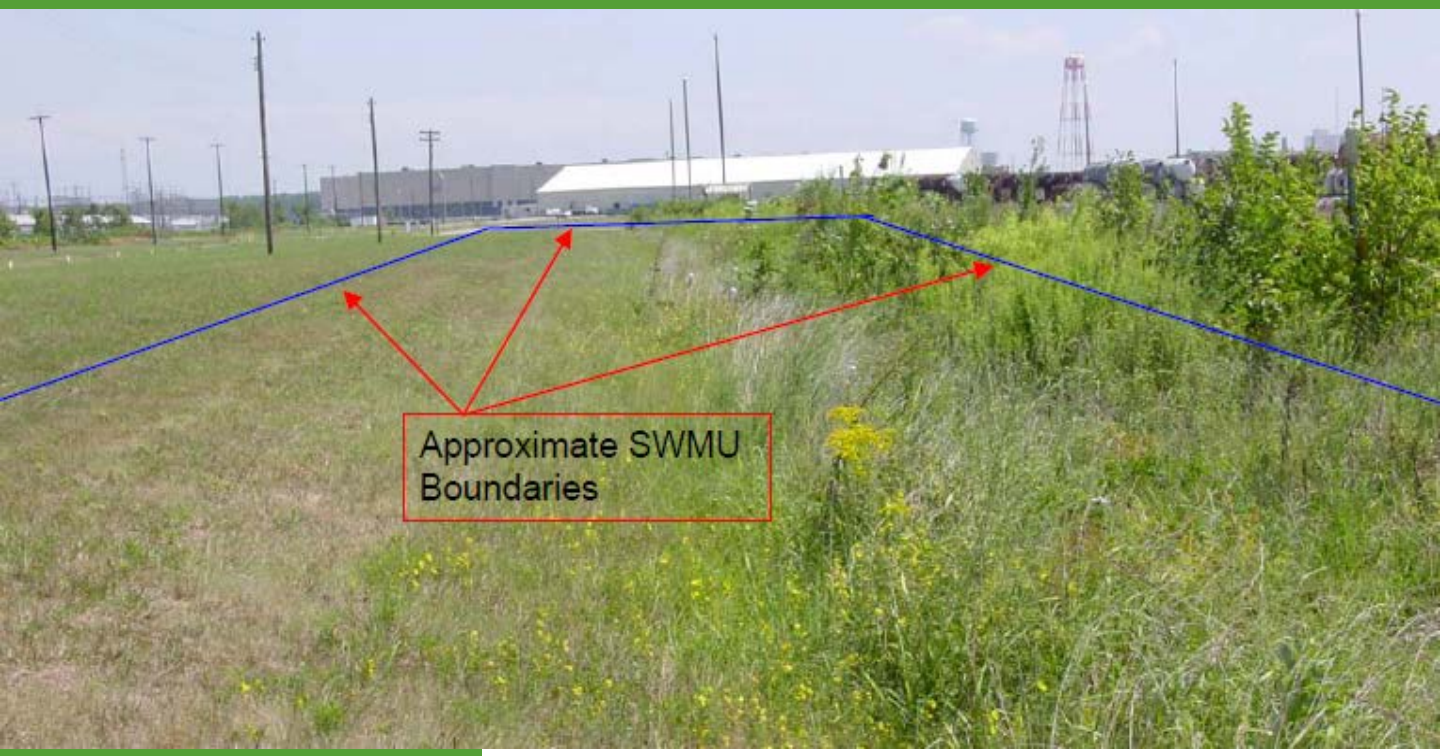
(REM)

Environmental Concerns:

- This area was investigated further as part of the Soils OU RI—refer to RI report for current data summary
- The representative data set used is sufficient to support decision making and indicates that an FS is appropriate
- Possible remedial technologies applicable for this unit, as discussed in the work plan, are posting, fencing (or other means of limiting access), *in situ* treatment, and additional excavation

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025



Facility Information

10,170 ft^2

This area was used for the storage of equipment during the Process Equipment Modification program from 1976 to 1979. Uranium hexafluoride (UF_6) tails cylinders also were stored here until summer of 2000.

This SWMU was used as a staging/storage area for DMSA materials until 2007.

This SWMU currently is empty.

SWMU 226 Outside DOE Material Storage Area OS-15

(REM)

Environmental Concerns:

- This area was sampled recently as part of Soils RI 2

Near-Term Plans FY 15–FY 17:

- None—Soils OU FS baselined for 2025

Facility Information

100 ft by 300 ft

The C-746-V yard began receiving waste in 1997. The waste is received for storage at this location from other areas, such as C-745-K. This area is in use and continues to receive waste today.

SWMU 470 C-746-V Yard

(REM)

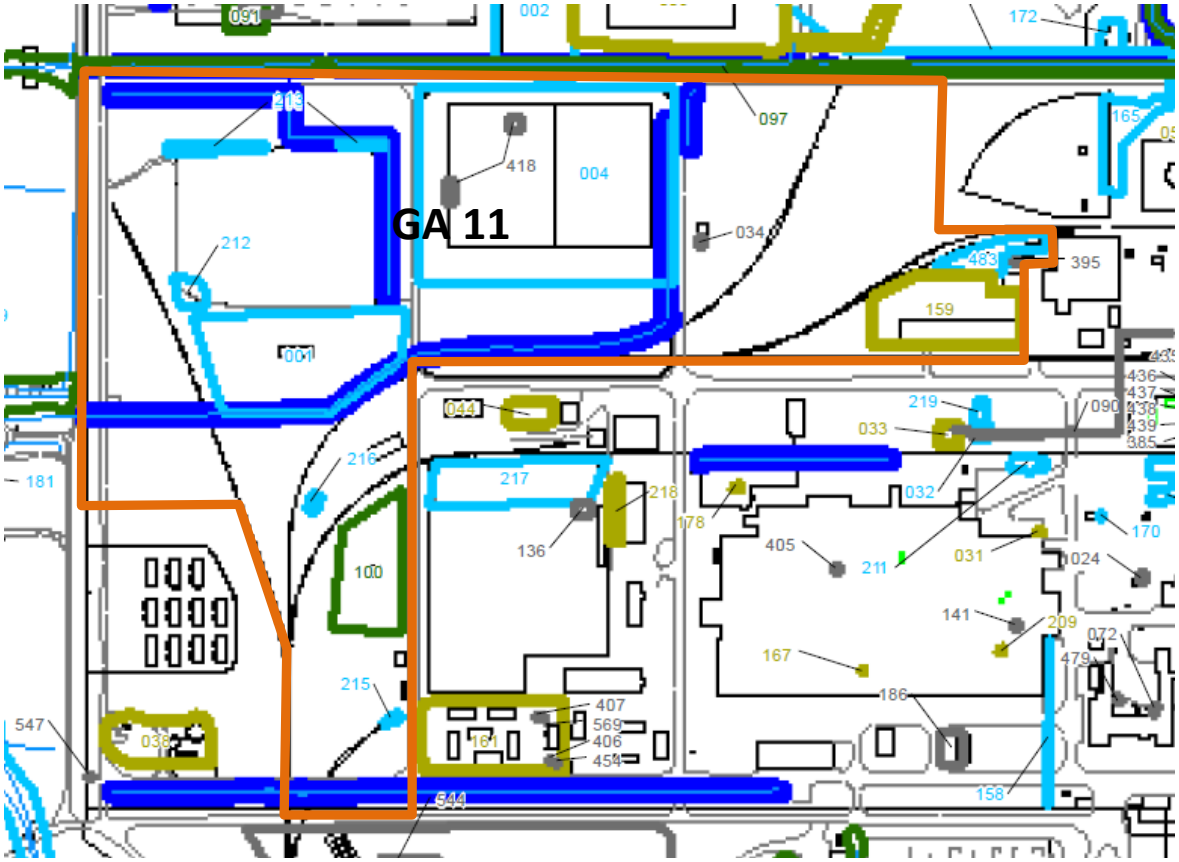
Environmental Concerns:

- Soils adjacent and under the area may be contaminated with site contaminants as a result of historical operations

Near-Term Plans FY 15–FY 17:

- None—to be addressed as part of the Soils and Slabs OU

Geographical Area (GA) 11



- ✓ 1 Fire Training Facility
- ✓ 4 Storage Pads/Buildings
- ✓ 1 Cylinder Yard
- ✓ 2 Former Support Facilities
- ✓ 12 total SWMUs/AOCs
  - ✓ 3 NFA SWMUs/AOCS
  - ✓ 1 Burial Grounds
  - ✓ 2 RODs in Place
  - ✓ 6 Other SWMUs/AOCs

Geographical Area (GA) 11

Mission Support Facilities (MS)

- C-207 Fire Training Facility
- C-746-H3 Storage Pad slab and underlying soils (SWMU 159)
- C-747-D, E Waste Storage Pads
- C-747-F H3 Pad Office Trailer
- C-746-M Storage Building

Cylinder Yards (CYLYD)

- C-745-A Cylinder Storage Yard

Former Support Facilities (FSF)

- C-206 Pumper Drafting Pit
- C-206-B Smoke Training Facility

Remediation Program Facilities (RPF)

- SWMU 1 C-747-C Oil Landfarm
- SWMU 4 C-748-B and C-747 Burial Grounds
- AOC 100 Fire Training Area

Other SWMUs/AOCs (non-NFA)

- AOC 212 C-745-A Radiological Contamination Area
- SWMU 213 Outside DOE Material Storage Area OS-02
- SWMU 215 Outside DOE Material Storage Area OS-04
- SWMU 216 Outside DOE Material Storage Area OS-05
- SWMU 483 Nitrogen Generating Facilities slab and underlying soils

Facility Information

900 ft^2

The C-207 Fire Training Facility is a live fire training facility on-site to augment firefighting training.

C-207 Fire Training Facility

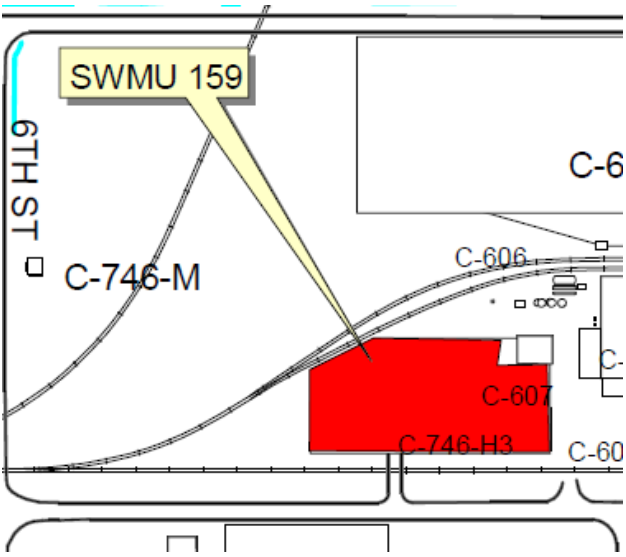
(DEA)

Environmental Concerns:

- Outfall 016 collects and discharges rain runoff from fire training activities at the fire training facility. A portable sodium thiosulfate feed station is used when needed at this outfall during fire training activities to dechlorinate the runoff.

Near-Term Plans FY 15–FY 17:

- Continue to utilize to support site emergency personnel



SWMU 159 C-746-H3 Storage Pad slab and underlying soils

Includes C-747-D and C-747-E (REM)

Facility Information

170 ft by 350 ft

A concrete pad surrounded by a fence for access control. Two clam shell facilities are constructed on the C-746-H3 pad, which cover approximately 10,000 ft^2 each.

This area has been used from 1988 to present for temporary storage of materials. These materials include Toxic Substance Control Act regulated wastes, low-level wastes, and a separate 90-day accumulation area for temporary storage of hazardous wastes.

Wastes are stored in various containers, such as 55-gal drums and 85-gal overpacks.

Environmental Concerns:

- Soils adjacent and under slabs may be contaminated with site contaminants as a result of historical operations

Near-Term Plans FY 15–FY 17:

- Continue use to support waste management operations

Facility Information

432 ft^2

C-746-M is being used for general storage to support the remediation program activities. It formerly stored radiological waste such as the uranium chips.

Support Facilities

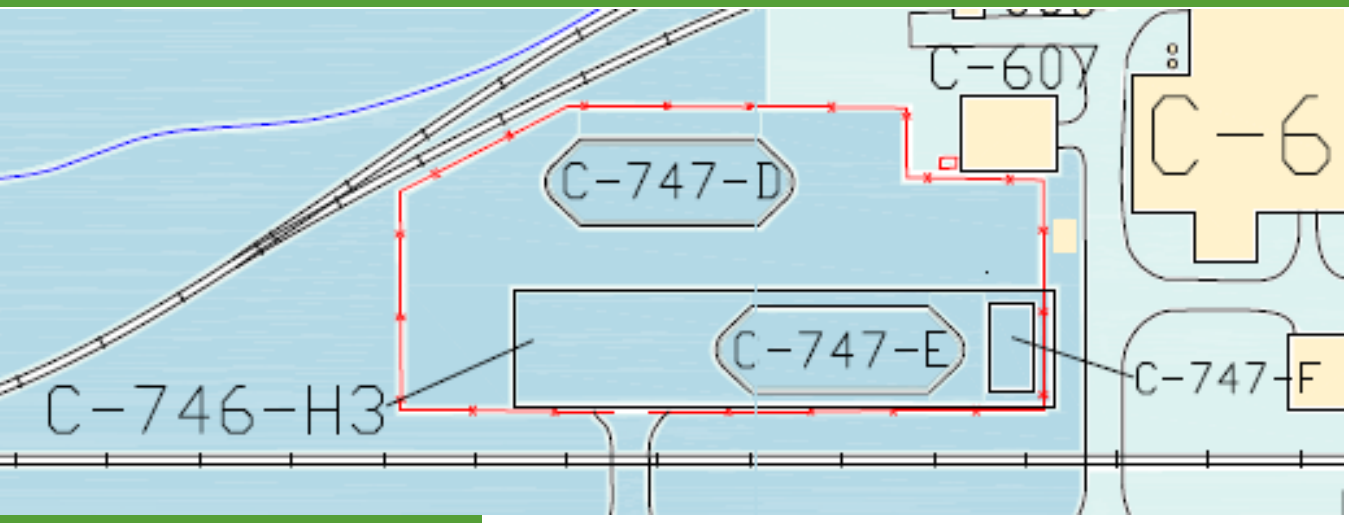
C-746-M (REM)

Environmental Concerns:

- Radiological contamination

Near-Term Plans FY 15–FY 17:

- Continue use to support remediation program activities



Facility Information

336 ft^2

This trailer is used to support offices for the H3 Pad storage areas.

Support Facilities

C-747-F (REM)

Environmental Concerns:

- None

Near-Term Plans FY 15–FY 17:

- Continue use to support waste management activities