

Department of Energy

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SEP 20 2013

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Kentucky Department for Environmental Protection
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Ms. Jennifer Tufts
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Ms. April Webb Kentucky Department for Environmental Protection Division of Waste Management 200 Fair Oaks Lane, 2nd Floor Frankfort, Kentucky 40601

Dear Mr. Mullins, Ms. Tufts, and Ms. Webb:

TRANSMITTAL OF REPLACEMENT PAGES FOR APPENDICES C, E, AND F OF THE U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST HALF OF FISCAL YEAR 2012 PADUCAH, KENTUCKY (DOE/LX/07-1278/V1)

References:

- Letter from R. Blumenfeld to C. Collins, T. Mullins, and A. Webb, "U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2013, Paducah, Kentucky (DOE/LX/07-1290/V1)," (PPPO-02-1896411-13), dated April 30, 2013
- 2. Letter from R. Knerr to T. Ballard, A. Webb, and E. Winner, "U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2012, Paducah, Kentucky (DOE/LX/07-1278/V1)," (PPPO-02-1449991-12B), dated April 24, 2012

Enclosed are the certified replacement pages for Appendices C, E, and F of the U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2012, Paducah, Kentucky, DOE/LX/07-1278/V1.

PPPO-02-2065403-13

The enclosed replacement pages have been prepared to correct reporting errors that occurred as a result of an unintentionally limiting data query. This error was discovered during an independent assessment conducted in April 2013 of the data tables presented in the appendices (Appendix C, E, and F) of the report. The submission of these replacement pages has been previously discussed between the Federal Facilities Agreement parties.

If you have any questions or require additional information, please contact Jennifer Woodard at (270) 441-6820.

Sincerely,

Rachel H. Blumenfeld Acting Paducah Site Lead

Portsmouth/Paducah Project Office

Kulul and Sturages

Enclosures:

- 1. Appendix C Replacement Pages—C-746-K Landfill Data
- 2. Appendix E Replacement Pages—C-400 Project Groundwater Monitoring Wells Data
- 3. Appendix F Replacement Pages—C-749 Uranium Burial Ground (SWMU 2) Groundwater Monitoring Wells Data

e-copy w/enclosures:

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CERTIFICATION

Document Identification:

Replacement Pages for Appendices C, E, and F of the U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2012, Paducah, Kentucky (DOE/LX/07-1278/V1)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LATA Environmental Services of Kentucky, LLC

Mark J. Duff, Padacah Project Manager

Date Signed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

U.S. Department of Energy (DOE)

Rachel H. Blumenfeld, Acting Paducah Site Lead

Portsmouth/Paducah Project Office

Date Signed

U.S. Department of Energy
Paducah Gaseous Diffusion Plant
Federal Facility Agreement
Semiannual Progress Report for the
First Half of Fiscal Year 2012
Paducah, Kentucky



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U.S. Department of Energy
Paducah Gaseous Diffusion Plant
Federal Facility Agreement
Semiannual Progress Report for the
First Half of Fiscal Year 2012
Paducah, Kentucky

Date Issued—April 2012

Prepared for the U.S. DEPARTMENT OF ENERGY Office of Environmental Management

Prepared by
LATA Environmental Services of Kentucky, LLC
managing the
Environmental Remediation Activities at the
Paducah Gaseous Diffusion Plant
under contract DE-AC30-10CC40020

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ACRONYMS

ARRA American Recovery and Reinvestment Act

BGOU Burial Grounds Operable Unit CAB Citizens Advisory Board

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CRP Community Relations Plan

D&D decontamination and decommissioning

DOE U.S. Department of Energy

EPA U.S. Environmental Protection Agency

EQ equalization

ERH electrical resistance heating

EW extraction well

FFA Federal Facility Agreement

FS feasibility study FY fiscal year

GDP Gaseous Diffusion Plant
GWOU Groundwater Operable Unit
IRA Interim Remedial Action
KDOW Kentucky Division of Water

LATA Kentucky LATA Environmental Services of Kentucky, LLC

LFRG Low-Level Waste Disposal Facility Federal Review Group

MW monitoring well

NEPCS Northeast Plume Containment System NWPGS Northwest Plume Groundwater System

O&M operation and maintenance

OU operable unit

PGDP Paducah Gaseous Diffusion Plant
RAWP Removal Action Work Plan
RGA Regional Gravel Aquifer
RI remedial investigation
ROD record of decision
SER site evaluation report

SEWP sitewide evaluation work plan

SMP Site Management Plan SOU Soils Operable Unit

SST Swift and Staley Mechanical Contractors, Inc.

SWMU solid waste management unit SWOU Surface Water Operable Unit

TBD to be determined

USEC United States Enrichment Corporation

WAG waste area group



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

INTRODUCTION

The Paducah Gaseous Diffusion Plant (PGDP) was placed on the National Priorities List on May 31, 1994. In accordance with Section 120 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the U.S. Department of Energy (DOE) entered into a Federal Facility Agreement (FFA) with the U.S. Environmental Protection Agency (EPA) and Kentucky on February 13, 1998. The FFA established one set of consistent requirements for achieving comprehensive site remediation in accordance with the Resource Conservation and Recovery Act and CERCLA, including stakeholder involvement.

Site cleanup activities are being implemented in a sequenced approach consisting of (1) pre-shutdown scope, (2) post-shutdown scope, and (3) Comprehensive Site Operable Unit scope. The pre-shutdown scope is associated with media-specific operable units (OUs) initiated prior to shutdown of the operating gaseous diffusion plant (GDP). The source areas for the pre-GDP shutdown scope have been grouped into these media-specific OUs:

- Groundwater OU (GWOU)
- · Burial Grounds OU (BGOU)
- · Surface Water OU (SWOU)
- · Soils OU (SOU)
- · Decontamination and Decommissioning (D&D) OU

Section XXIII of the FFA requires that DOE prepare a regulatory progress report that describes the actions that DOE has taken during the previous six months to implement FFA requirements, as well as the schedules¹ of activities to be taken during the upcoming six months. Activities that have taken place after the reporting period closed are not included in this report. Projects and activities reported in this update are grouped by the media-specific OUs listed in Table 1.

Each section of this update has been divided into nine sections as follows:

- I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan)
- II. Schedules of activities to be performed during next reporting period (including projected work/crucial phases of construction)
- III. Identity and assigned tasks of DOE contractors for work to be performed during this reporting period

¹ Schedules are included for information and planning purposes only; enforceable schedules are established in the Site Management Plan (SMP).

Table 1. Operable Units and Corresponding Report Topics

Operable Unit	Project/Activities
Groundwater Operable Unit	· C-400 Interim Remedial Action
	Southwest Plume Sources Interim Remedial Action
	 Dissolved-Phase Plumes Remedial Action
	Northeast Plume Interim Remedial Action
	Northwest Plume Interim Remedial Action
Burial Grounds Operable Unit	Burial Grounds Operable Unit
	· C-749 Uranium Burial Ground (SWMU 2)
Surface Water Operable Unit	Remedial Action
Soils Operable Unit	· Remedial Action
Decontamination and Decommissioning Operable Unit	· C-410/420 Complex
	· C-746-A East End Smelter and C-340 Metals
	Reduction Plant Complex
Comprehensive Site Operable Unit*	No Projects
Additional Reporting	 Waste Area Groups 1 and 7
	· Community Relations Plan
	· Site Management Plan (SMP)
*TI G 1 1 1 C C D 1 1 1 1 C C D 1	CERCLA Waste Disposal Alternatives Evaluation

^{*} The Comprehensive Site Operable Unit work scope, including GDP shutdown, is defined more clearly in the fiscal year 2012 SMP.

- IV. Statement of the manner and extent to which the requirements and time schedules are being met
- V. Primary/Secondary Document Tracking System
 - A) Documents under review and/or preparation for this reporting period
 - B) Due dates for completion of review/modification tasks
- VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay)
- VII. Summary of all contacts with local community, public interest groups, or state government
- VIII. Changes in relevant personnel
- IX. Actual cost for operation and maintenance (O&M), if appropriate

Each of the sections satisfies a reporting requirement for the FFA semiannual report or the Hazardous Waste Facility Permit and has been formatted in accordance with the template found in Appendix D of the FFA.

This report includes six appendices as follows:

- Appendix A contains Northeast and Northwest Plumes Water Withdrawal Reports for this reporting period.
- Appendix B contains Figures B.1 through B.25, as referenced in the Northeast and Northwest Plume updates.
- Appendix C contains a map depicting the monitoring well (MW) locations: a figure summarizing the trichloroethene (TCE) concentrations in these wells over time and a summary of the C-746-K Landfill groundwater monitoring data from January 1996 through September 2011. This data currently are collected semiannually. C-746-K Landfill groundwater monitoring data for reporting dates October 2011 through March 2012 will be included in the next semiannual report scheduled for October 2012. Sampling of these MWs is outlined in the Record of Decision (ROD) for Waste Area Groups (WAGs) 1 and 7.
- Appendix D contains updates to the Administrative Record index since the last progress report. This is required by the Paducah FFA (Section XXXII.F).
- Appendix E contains a map depicting the C-400 MW location; and a summary of the C-400 groundwater MW data trending TCE and technetium-99 (Tc-99) from 2000 through September 2011. Groundwater data from October 2011 through March 2012 will be included in the next semiannual report scheduled for October 2012.
- Appendix F contains a map depicting the C-749 Uranium Burial Ground [Solid Waste Management Unit (SWMU) 2] groundwater MWs and a summary of the SWMU 2 trends for TCE and Tc-99 for reporting dates 1996 through August 2011. SWMU 2 groundwater monitoring data from October 2011 through March 2012 will be included in the next semiannual report scheduled for October 2012.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

GROUNDWATER OPERABLE UNIT

The scope of the GWOU includes investigation, a baseline risk assessment, evaluation of removal/remedial alternatives, and selection and implementation of actions necessary to achieve protection of human health and the environment from exposure to groundwater contamination that could result in an unacceptable risk.

Within the GWOU are these projects: C-400 Interim Remedial Action (IRA), Southwest Plume Sources, Dissolved-Phase Plumes, Northeast Plume IRA, and Northwest Plume IRA.

The overall objective of the GWOU is to remove/mitigate ongoing sources and to remediate the groundwater to target concentrations. The most predominant contaminant of concern in the groundwater is TCE. Table 2 provides an overall broad picture of the TCE mass removed by various actions through March 31, 2012. Additionally, the table provides the current understanding of the remaining masses yet to be addressed. Some of the components still are being estimated and are listed as to be determined (TBD).

Table 2. Cumulative TCE Removed and Remaining TCE Estimate at Paducah

Source Area	Cumulative TCE	Remaining TCE Estimate
	Removed (gal)*	(gal)
Northwest Plume Pump-and-Treat	2,687	TBD
Northeast Plume Pump-and-Treat	272	TBD
C-400 Six-Phase Treatability Study	1,900	N/A
C-400 Phase I	580	TBD
C-400 Phase II	0	600-7,000**
Dissolved-Phase Plume	N/A	1,600
Southwest Plume***	0	70
SWMU 4***	0	TBD
Other sources (i.e., SWMU 91, LASAGNA [™])	246	TBD
Total	5,670	2,200-8,600

^{*}Cumulative through March 31, 2012.

^{**}This estimate is currently under review.

^{***}Additional investigation pending.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

GROUNDWATER OPERABLE UNIT PROJECT: C-400 IRA

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Submitted the Revised Proposed Plan for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-1263&D1, to EPA and Kentucky on December 21, 2011.
- Received approvals from the EPA on January 9, 2012, and Kentucky on January 25, 2012, to bifurcate the C-400 Interim Remedial Action into two phases with Phase I remediating the southwest and northeast source areas, while Phase IIa and IIb will remediate the southeast source area.
- Received comments from EPA and Kentucky on February 28, 2012, and February 3, 2012, respectively, on the *Revised Proposed Plan for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1263&D1, and began developing the D2 version of the document for submittal during the next reporting period.
- Continued developing the Remedial Action Work Plan for Phase IIa of the Interim Remedial Action for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/1271&D1.
- · Submitted the Remedial Design Report, Certified for Construction Design Drawings and Technical Specifications Package, for the Groundwater Operable Unit for the Phase IIa Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-1272&D1, to EPA and Kentucky on March 7, 2012.
- · Continued developing the Amendment to the Record of Decision for the Interim Remedial Action for the Groundwater Operable Unit for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-1270&D1.
- · Continued groundwater monitoring for the C-400 project required by the *Remedial Action Work Plan for the Interim Remedial Action the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-0004&D2/R2. The TCE and Tc-99 groundwater monitoring trends from May through September 2011 are included as Appendix E of this report.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Begin subcontracting and procurement of long lead-time equipment for the Phase IIa action.
- Initiate quality and electric testing of electrodes that were delivered to the PGDP during Phase I operations during the next reporting period prior to utilization in Phase IIa ERH operations.
- Submit the D1 Remedial Action Work Plan for Phase IIa of the Interim Remedial Action for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, DOE/LX/07-1271&D1.
- Prepare and submit the D2 Remedial Design Report for the C-400 IRA Phase IIa.
- Continue development of the D1 ROD for the C-400 IRA Phase IIb for submittal to EPA and Kentucky.
- Initiate development of the D1 Remedial Design Work Plan for the C-400 IRA Phase IIb for submittal to EPA and Kentucky by September 24, 2012.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the GWOU belongs to LATA Environmental Services of Kentucky, LLC, (LATA Kentucky) as the DOE prime remediation contractor at the PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management services. Swift and Staley Mechanical Contractors, Inc., (SST) manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and schedules are being met for the GWOU C-400 action subprojects consistent with the Site Management Plan (SMP) or as agreed to by the FFA parties.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The C-400 IRA Phase IIa Remedial Action Work Plan has been under development during this reporting period.
- The D1 Remedial Design Report (90%) for the C-400 IRA Phase IIa has been under development and EPA and Kentucky review during this reporting period.
- The D1 Revised Proposed Plan for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, DOE/LX/07-1263&D1, was under EPA and Kentucky review during this reporting period.

- The D2 Revised Proposed Plan for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, DOE/LX/07-1263&D2, has been under development during this reporting period.
- The C-400 IRA Phase IIb ROD has been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

Not applicable.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

ERH did not reach target temperature in the lower Regional Gravel Aquifer (RGA). DOE conducted an evaluation of the Phase I IRA (detailed in the Technical Evaluation Report). DOE has evaluated other viable technologies for addressing the RGA. This evaluation resulted in the bifurcation of the C-400 IRA, which was approved by EPA and Kentucky during this reporting period.

VII. Summary of all contacts with local community, public interest groups, or state government:

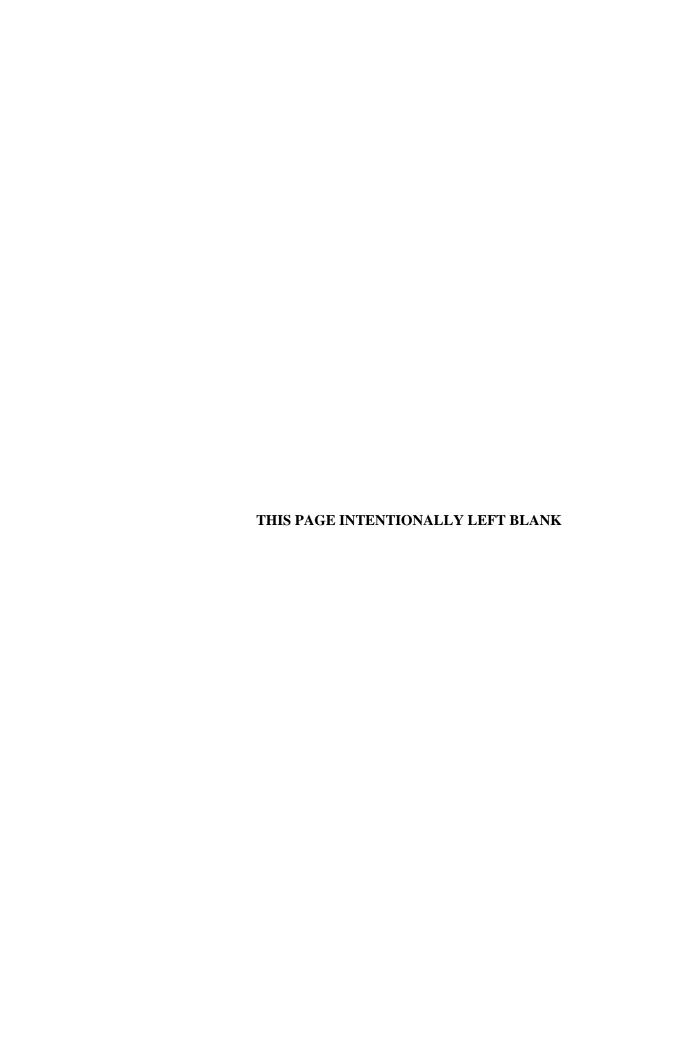
DOE provided routine updates on the subproject to the Paducah Site Citizens Advisory Board (CAB), FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Sampling of the C-400 wells has been incorporated into the Environmental Monitoring Program. O&M cost is not broken out separately.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

GROUNDWATER OPERABLE UNIT PROJECT: Southwest Plume Sources

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Submitted to EPA and Kentucky on November 18, 2011, the D1 version and on February 3, 2012, the D2 version of the Remedial Design Work Plan for Solid Waste Management Units 1, 211-A, and 211-B Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-1268.
- Developed and submitted the D2 Remedial Design Work Plan for Solid Waste Management Units 1, 211-A, 211-B Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plan, Paducah, Kentucky, DOE/LX/07-1268&D2, on February 3, 2012.
- Submitted the Remedial Design Support Investigation Characterization Plan for the C-747-C Oil Landfarm and C-720 Northeast and Southeast Sites at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0350&D1, to EPA and Kentucky on February 8, 2012.
- · Issued the approved Revised Proposed Plan for Solid Waste Management Units 1, 211-A, 211-B, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for public review and comment from October 2, 2011, to November 16, 2011.
- Developed and submitted the D2/R1 Record of Decision for Solid Waste Management Units 1, 211-A, 211-B, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0365&D2/R1, on March 16, 2012.
- Obtained approval of the Record of Decision for Solid Waste Management Units 1, 211-A, 211-b, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0365&D2/R1. DOE signed the D2/R1 ROD on March 16, 2012; EPA signed the ROD on March 20, 2012; and the Commonwealth of Kentucky concurred on the ROD by letter on March 23, 2012.
- Received conditional concurrences on the Remedial Design Work Plan and Remedial Design Support Investigation Characterization Plan from EPA on March 19, 2012, and Kentucky on March 20, 2012.

• Began developing the 30% Remedial Design Report, In Situ Source Treatment Using Deep Soil Mixing for the Southwest Groundwater Plume Volatile Organic Compound Source at the C-747-C Oil Landfarm at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-1276&D1.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Submit the 30% Remedial Design Report for the Remedial Action of the Solid Waste Management Units 1, 211-A, 211-B, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume in May 2012.
- Complete development of the D2 Remedial Design Work Plan for the Remedial Action of the Solid Waste Management Units 1, 211-A, 211-b, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume to be submitted in April 2012.
- Prepare and submit for EPA and Kentucky review the 60% Remedial Design Report for the C-747-C Oil Landfarm.
- Initiate performance of the Remedial Design Support Investigation.
- · Initiate development of the Remedial Action Work Plan.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the GWOU belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management services. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Development and submittal of decision documents for the Southwest Plume source areas are being met consistent with the negotiated timelines as agreed to by the FFA parties.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The Remedial Design Work Plan and Remedial Design Support Investigation Characterization Plan concurrences (March 19, EPA; March 20, Kentucky) contain conditions under review by DOE.
- The D2/R1 Record of Decision for Solid Waste Management Units 1, 211-A, 211-B, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0365&D2/R1, was under development and EPA and Kentucky review.

R)	Due	dates for	completion	οf	review	/modifics	ation	tasks:
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None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

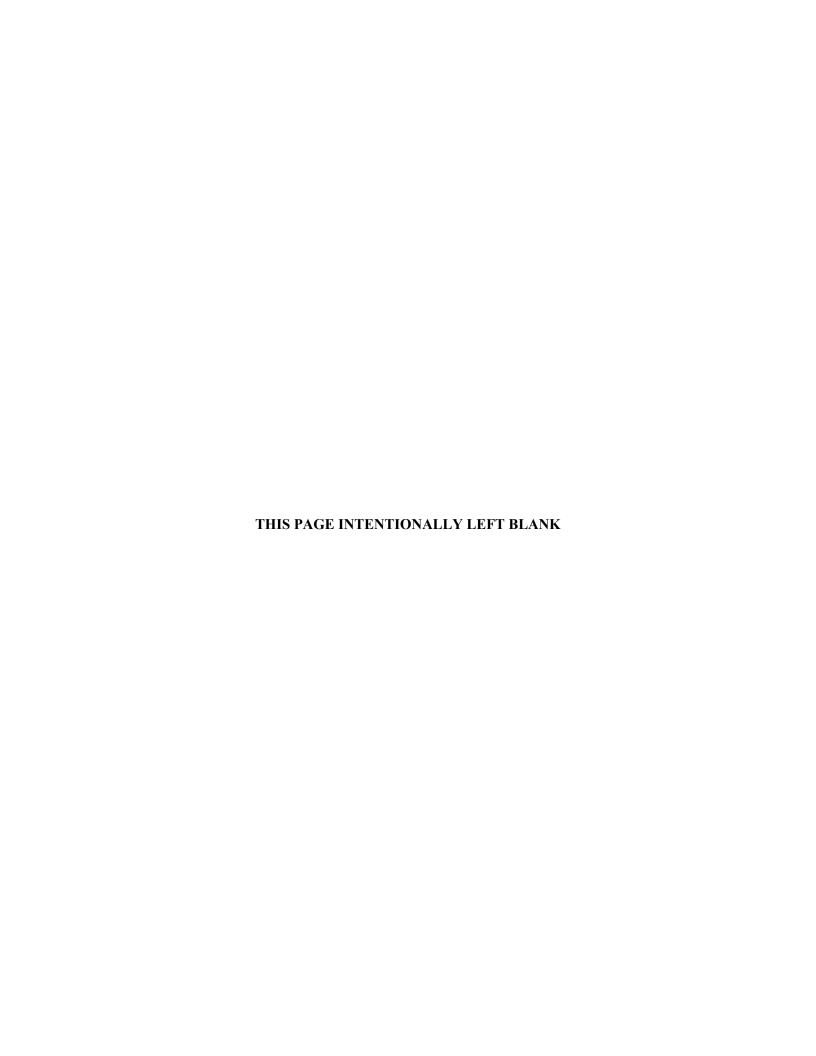
- DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.
- · Conducted public review of the approved Revised Proposed Plan for Solid Waste Management Units 1, 211-A, 211-B, and Part of 102 Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, from October 2, 2011, to November 16, 2011.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

GROUNDWATER OPERABLE UNIT PROJECT: Dissolved-Phase Plumes

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

None.

II. Schedule of activities during upcoming reporting period (including projected work/crucial phases of construction):

This project has been resequenced and the milestone for submittal of the D1 Remedial Investigation Work Plan has been moved from fiscal year (FY) 2012 to FY 2015. No activities are scheduled for this project during the upcoming reporting period.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the GWOU belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management services. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Project implementation has been resequenced as described in Section II.

- V. Primary/Secondary Document Tracking System:
 - A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII.	Summary of all contacts with local community, public interest groups, or state government:
	None.
VIII	Changes in relevant personnel:
	None.
IX.	Actual cost for O&M, if appropriate:
	None.

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

GROUNDWATER OPERABLE UNIT PROJECT: Northeast Plume IRA

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

During this reporting period, the Northeast Plume Containment System (NEPCS) treated 40,205,825 gal of contaminated groundwater and achieved an operational efficiency of 97.9%. The average system treatment rate for the reporting period was 152.6 gal/min and was calculated assuming 100% operational uptime. Operational online efficiencies for the reporting period were as follows: October, 100%; November, 100%; December 2011, 100%; January, 100%; February, 96.6%; and March 2012, 90.7%.

During the reporting period, preliminary design modeling was conducted using the 2008 PGDP sitewide groundwater flow model to test initial design concepts for optimization of the Northeast Plume wellfield. The results of preliminary modeling and observations stemming from implementation of the Northwest Plume optimization indicated that model recalibration was needed before detailed wellfield design could be completed. Briefings to regulatory personnel were held in December 2011 and January 2012 to convey this information. Additionally, information was requested and obtained from the Kentucky Research Consortium for Energy and Environment regarding updated lithologic mapping to incorporate into the recalibration effort.

A) Process Operations:

The NEPCS consists of two extraction wells (EWs), an underground equalization (EQ) tank, transfer piping, a cooling tower for air stripping, and MW network.

B) Process Testing:

Operation of the NEPCS began February 28, 1997. As of March 31, 2012, the NEPCS has processed a total of approximately 1,237,860,000 gal of water. The monthly withdrawal volumes this reporting period are presented in Appendix A, Table A.1, of this report. This table includes a summary of the withdrawn water volumes and average daily rates.

C) NEPCS Influent, Effluent, and Extraction Well Testing:

Due to sample analysis time and the data assessment process, the analytical data included in this report lags operational data by three months. This report presents analytical data from July through December 2011.

Influent sample results, compared to the effluent (cooling tower shower) sample results, indicated that TCE was effectively removed below the operational goal of 5 micrograms/liter (μ g/L). The influent flow is a composite from two EWs. Influent TCE analytical data from

1997 through the end of December 2011 are presented in Appendix B. Environmental samples were collected monthly from the treatment system influent and effluent for the period of July through December 2011. High, low, and average influent and effluent TCE concentrations for these months are presented in Table 3. Values reported as less than the reporting limit of 1 μ g/L are considered to be 1 μ g/L for averaging and graphing purposes.

Table 3. TCE Concentrations for Northeast Plume

		TCE (µg/L))		
	High Low Average				
Influent (EQ Tank)	170	130	151		
Effluent (Cooling Tower Effluent)*	< 1	< 1	< 1		

^{*}For the purpose of determining efficiency, a reading of < 1 is assumed to be zero.

As presented in Table 3, the NEPCS continued to remove TCE effectively. The system operated with an average removal efficiency of approximately 100% for TCE. All effluent TCE samples showed less than the reporting limit.

The EWs were sampled quarterly during this reporting period. The results of the sampling showed no significant change in TCE levels since the last reporting period. Extraction well EW331 had an average TCE concentration of 135 μ g/L, while EW332 had an average concentration of 163 μ g/L.

Concentrations of Tc-99 in water samples collected from the EQ tank did not exceed shut down action level of 3,600 pCi/L. The highest Tc-99 concentration from the EQ tank was 34.2 pCi/L.

D) Maintenance Activities:

Routine Maintenance Activities:

Daily, monthly, quarterly, and annual routine maintenance activities were conducted in accordance with the *Paducah Plume Operations Maintenance*, *Calibration*, *and Testing Plan*, PAD-ENM-001, September 2010.

Instances of downtime occurred during the reporting period relating to power outages, routine maintenance, and calibration of system components.

Nonroutine Maintenance Activities:

On December 1, 2011, the effluent pressure indicator (PI-6) was replaced due to a faulty gauge.

On February 12, 2012, the effluent control valve would not operate properly due to freezing temperatures at the Northeast Plume Treatment System. The treatment system was out of service for approximately 24 hours.

On the evening of March 2, 2012, the power was interrupted at the Northeast Plume Treatment Facility. The circuit breaker was reset on the Northeast Plume Transfer Pump and

the system was restarted on March 5, 2012. The Northeast Plume was out of service for approximately 69 hours.

E) Effectiveness Monitoring—Monitoring Well Results:

Figure B.1, included in Appendix B, shows locations of the MWs and EWs. Figure B.2 shows the location of the MWs with the top of McNairy topography. Figures B.3 shows system influent TCE concentrations, and Figure B.4 includes a summary of the TCE in the Northeast Plume extraction wells. Figure B.5 shows the estimated cumulative amount of TCE removed since the NEPCS began operations in 1997. Figures B.6 through B.10 presented in Appendix B, show TCE concentrations and Tc-99 activities in MWs downgradient and upgradient and the EWs.

MW292 is located approximately 1,200 ft upgradient of the pumping wells to provide an early detection point for Tc-99 migration. During the third and fourth quarters of calendar year 2011, Tc-99 activity at MW292 was 38.4 and 46.8 pCi/L, respectively.

F) Modification of the NEPCS Operations or Configuration:

No modifications were made to the NEPCS operation or configuration during the reporting period.

II. Schedule of activities during upcoming reporting period (including projected work/crucial phases of construction):

- The project team will continue to conduct and document the necessary tasks required for equipment maintenance, calibration, and operations, as specified within the *Operations and Maintenance Plan for the Northeast Plume Containment System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1535&D3.
- Complete recalibration of the 2008 PGDP sitewide groundwater flow model, complete
 wellfield design, engineering design, submit the D1 Removal Action Work Plan (RAWP) for
 Northeast Plume Optimization, and conduct procurement planning and bid package
 development for drilling and construction subcontracts for Northeast Plume Optimization.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the NEPCS belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management services. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The effluent concentration goal of 5 μ g/L for TCE was met during the reporting period. The NEPCS remained operational 97.9% of the time during this reporting period.

On February 17, 2012, the regulatory milestone date of March 30, 2012, for submittal of the D1 RAWP for Northeast Plume Optimization was extended to August 30, 2012, to allow time to complete the model recalibration to support the wellfield design.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

No future operational problems or delays are anticipated.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Actual costs for O&M of the Northwest/Northeast Plume facilities are tracked jointly. The total operating cost for the reporting period was \$220,000.

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

GROUNDWATER OPERABLE UNIT PROJECT: Northwest Plume IRA

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- During this reporting period, the Northwest Plume Groundwater System (NWPGS) treated 55,451,653 gal of contaminated groundwater with an average monthly operational efficiency of 96.6%. The average system treatment rate for the reporting period was 210.4 gal/min and was calculated assuming 100% operational uptime. Operational efficiencies for the reporting period were as follows: October, 87.4%; November, 98.1%; December 2011, 100%; January, 96.8%; February, 98.9%; and March 2012, 99.1%.
- DOE conducted quarterly sampling of 22 MWs associated with effectiveness monitoring for the optimized NWPGS in June and August 2011.

A) Process Operations:

The NWPGS previously consisted of two EW fields (north and south with each field having two EWs), for a total of four wells, underground pipeline, treatment facility, and MW network. In August 2010, two new EWs (EW232 and EW233) became operational in the south well field near the north fence line of PGDP. The north well field EWs (EW228 and EW229) were removed from service in August 2010, and the new EWs were placed into operation at that time. EW230 and EW231, also located in the south well field, are kept in standby mode and are returned to service, as needed.

B) Process Testing:

Operation of the NWPGS began on August 28, 1995. As of March 31, 2012, the NWPGS has processed a total of 1,674,770,000 gal of water. The monthly withdrawal volumes for the reporting period are presented in Appendix A, Table A.2, of this report. This table includes a summary of the withdrawn water volumes and average daily rates.

C) NWPGS Influent, Effluent, and Extraction Well Testing:

Due to sample analysis time and the data assessment process, the analytical data included in this report lags operational data by three months. This report presents analytical data from July through December 2011.

Figure B.11, included in Appendix B, shows locations of the Northwest Plume MWs. Figure B.12 shows the location of the MWs with the top of McNairy topography. Influent TCE and Tc-99 analytical data are presented in Appendix B on Figures B.13 and B.14. Figures B.15 and B.16 includes a summary of the TCE and Tc-99 concentrations of the effluent versus

time at the Northwest Treatment System. Figure B.17 shows the cumulative estimated amount of TCE removed since the Northwest Plume system began operations in 1995. The influent sample results, compared to the NWPGS effluent results, indicated that the NWPGS continues to effectively remove TCE and Tc-99.

TCE values reported as less than the reporting limit of 1 μ g/L are considered to be 1 μ g/L for averaging and graphing purposes. High, low, and average influent and effluent TCE and Tc-99 concentrations from July through December 2011 are presented in Table 4.

Table 4. TCE and Tc-99 Concentrations for Northwest Plume

TCE (µg/L)			Tc-99 (pCi/L)			
	High	Low	Average	High	Low	Average
Influent	3,200	2,600	2,889	406	339	371.6
Effluent	5.8	2.2	3.68	40.6	13.1	27.0

The treatment system influent, a composite from two EWs, was sampled monthly. The effluent was sampled weekly. These sampling frequencies were conducted in accordance with the revised O&M Plan for the Northwest Plume Groundwater System IRA D4/R5, which DOE submitted on September 13, 2010, and was approved in correspondence from Kentucky on October 4, 2010, with concurrence from EPA on October 8, 2010. As presented in Table 4, the NWPGS continued to effectively remove TCE and Tc-99. The system operated with an average removal efficiency of 99.87% for TCE and 92.7% for Tc-99.

The average TCE effluent concentration for this reporting period was 3.68 μ g/L, which is less than the treatment goal of 5 μ g/L. The average Tc-99 effluent value was 27.0 pCi/L, which is less than the operational goal of 900 pCi/L, during the reporting period.

High, low, and average sample results for this reporting period at the EWs are shown in Table 5. EWs 228 and 229 were removed from operation in August 2010. These wells are not tied physically into the Northwest Plume Treatment Facility and no longer are sampled. EWs 230 and 231 also were removed from operation in August 2010. These wells, however, are sampled only when they are operated (these wells were not operated during this reporting period). EWs 232 and 233 were sampled quarterly in accordance with the revised O&M Plan for the Northwest Plume.

Table 5. TCE and Tc-99 Concentrations for Northwest Plume EWs

	TCE (µg/L)			Tc-99 (pCi/L)		
	High	Low	Average	High	Low	Average
EW232	1,800	1,800	1,800	279	268	274
EW233	4,500	3,500	4,000	498	445	472

D) Treatment Media:

Ion Exchange Resins:

The NWPGS is equipped with four ion exchange columns used for the removal of Tc-99. Purolite A-520-E resin is used in the columns, which are arranged in a lead/lag configuration on two parallel skids. No resin changes were required during this reporting period.

Activated Carbon Media:

The NWPGS is equipped with two carbon columns containing granular activated carbon for adsorption of volatile organic compounds from the vapor-phase effluent of the air stripper unit. The carbon in each column is replaced routinely. The carbon in both columns was replaced on March 7, 2012, with new and recycled carbon. The current inventory of new and recycled carbon is sufficient for the next carbon change and additional new carbon will not be required.

E) Maintenance Activities:

Routine Maintenance Activities:

Daily, monthly, quarterly, and annual routine maintenance activities were conducted in accordance with the *Paducah Plume Operations Maintenance, Calibration, and Testing Plan*, PAD-ENM-0001, September 2010. Instances of minor downtime occurred during the reporting period relating to power outages, maintenance, and calibration of the system.

Nonroutine Maintenance Activities:

At approximately 0200 hours on October 28, 2011, the electrical power to the C-612 Treatment Facility was interrupted due to a tripped circuit breaker at the United States Enrichment Corporation (USEC) facility. The power disruption caused a fault in the process control card in the sand filter control panel, which would not allow the C-612 facility to operate. The fault in the control card was repaired, and the system was returned to service at approximately 1200 hours on November 1, 2011.

On November 8, 2011, a project that installed lightning and surge protection on EW232 and EW233 was completed. Damage from electrical storms during the past year had required the variable frequency drives in each of these wells to be replaced. It is anticipated that this project will minimize/eliminate future problems.

On November 14, 2011, the C-612 equalization tank level control card was replaced due to intermittent faulty readings. The NWPGS Treatment System was removed from service for approximately two hours for the repairs.

At approximately 1000 hours on January 8, 2012, the electrical power to the C-612 Treatment Facility was interrupted due to a tripped circuit breaker at the USEC facility. The power disruption caused a fault in the process control card in the sand filter control panel, which would not allow the C-612 facility to operate. The fault in the control card was repaired and the system was returned to service at approximately 1000 hours on January 9, 2012.

On February 29, 2012, the electrical power to the C-612 facility was interrupted. The power disruption caused a fault in the process control card in the sand filter control panel, which would not allow the C-612 facility to operate. The fault in the control card was repaired and the system was returned to service at approximately 1000 hours on February 29, 2012.

On March 7, 2012, the carbon changeout at the C-612 facility was completed. The treatment system was out of service for approximately seven hours while the carbon was changed.

F) Effectiveness Monitoring—Monitoring Well Results:

Figures B.18 through B.25 presented in Appendix B, show TCE and Tc-99 concentrations in MWs at the south and north fields of the Northwest Plume and the EWs, respectively. These graphs show all data since monitoring began in 1995 and indicate the position of the MWs relative to the extraction.

G) Modification of the NWPGS Operations or Configuration:

EW 232 and EW233, became operational on August 24, 2010. These EWs supplant the previous EWs for recovery of TCE contaminated groundwater from the Northwest Plume. Each of the new wells has a design capacity of 220 gal per minute and is operated full time at approximately 110–115 gpm. EW228 and EW229 have been disconnected from the Northwest Plume Treatment facility. EW230 and EW231 are kept in standby mode and can be operated, as needed.

II. Schedules of activities during upcoming reporting period (including projected work/crucial phases of construction):

The project team will continue to conduct and document the necessary tasks required for equipment maintenance, calibration, and operation, as specified in the *Operations and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1253&D4/R5.

Hydraulic and chemical effectiveness monitoring, as described in the D4/R5 O&M Plan for the Northwest Plume Groundwater System IRA, was initiated during the reporting period.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the NWPGS belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition LATA Kentucky provides programmatic and technical support, analytical services, and business management services. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The average NWPGS water effluent concentrations met the operational goals of 5 µg/L for TCE and 900 pCi/L for Tc-99 during the reporting period. The NWPGS has remained operational 96.6% of the time during this reporting period.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, and reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Actual costs for O&M of the Northwest/Northeast Plume facilities are tracked jointly. The total operating cost for the reporting period was \$220,000.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

BURIAL GROUNDS OPERABLE UNIT

The scope of the BGOU includes a remedial investigation (RI), baseline human health risk assessment, evaluation of remedial alternatives, remedy selection, and implementation of actions, as necessary, for protection of human health and the environment for the following burial grounds: C-749 (SWMU 2); C-404 (SWMU 3); C-747/C-748-B (SWMU 4); C-746-F (SWMU 5); C-747-B (SWMU 6); C-747-A (SWMU 7 and 30), which includes the area beneath C-747-A (SWMU 12); the residential/inert borrow area (SWMU 145); and the C-746-S&T Landfills (SWMUs 9 and 10, respectively).

This section also includes information on the sampling activities being conducted at the C-749 Uranium Burial Ground, as required in the *Record of Decision for Interim Remedial Action at Solid Waste Management Units 2 and 3 of Waste Area Group 22 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, signed in 1995.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

BURIAL GROUNDS OPERABLE UNIT PROJECT: C-749 (SWMU 2); C-404 (SWMU 3); C-747/C-748-B (SWMU 4); C-746-F (SWMU 5); C-747-B (SWMU 6); C-747-A (SWMUs 7 and 30), which includes the area beneath C-747-A (SWMU 12); the Residential/Inert Borrow Area (SWMU 145); and the C-746-S&T Landfills (SWMUs 9 and 10)

- I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):
 - The parties worked to resolve the dispute on the D2 feasibility study (FS) during this reporting period. On February 10, 2012, the parties successfully resolved formal dispute.
 - Submitted the D2/R1 FS for SWMUs 5 and 6 to EPA and Kentucky on February 29, 2012, for review and approval.
 - The D1 FS for SWMUs 2, 3, 7, and 30 has been under development during this reporting period.
 - Submitted a SWMU Assessment Report to EPA and Kentucky on October 6, 2011, that transferred SWMU 13 from the BGOU to the Soils OU.
 - Prepared and submitted the D2/A2 SWMU 4 Work Plan addendum on October 28, 2011, and errata for the quality assurance project plan on December 21, 2011, to EPA and Kentucky for review and approval.
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):
 - Develop and submit a D2/R2 FS for SWMUs 5 and 6 to EPA and Kentucky.
 - Develop and submit the D1 FS for SWMUs 2, 3, 7, and 30 to EPA and Kentucky by April 29, 2012
 - Develop and submit a D1 Proposed Plan for SWMUs 5 and 6 to EPA and Kentucky by June 30, 2012.
 - Prepare and submit the D2/A2/R1 SWMU 4 Work Plan addendum to EPA and Kentucky by April 24, 2012.
 - Initiate field activities associated with SWMU 4 Work Plan addendum no later than September 30, 2012.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of BGOU belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center, and maintains existing burial ground caps.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation during this reporting period:

- D1 FS for SWMUs 2, 3, 7, and 30
- D1 Proposed Plan for SWMUs 5 and 6
- D2/A2/R1 SWMU 4 Work Plan Addendum

B) Due dates for completion of review/modification tasks:

- The D2/A2/R1 SWMU 4 Work Plan addendum to EPA and Kentucky by April 24, 2012.
- The D1 FS for SWMUs 2, 3, 7, and 30 to EPA and Kentucky by April 29, 2012.
- The D1 Proposed Pan for SWMUs 5 and 6 is due to EPA and Kentucky by June 30, 2012.
- Field start for SWMU 4 RI is scheduled to begin no later than September 30, 2012.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

• EPA and Kentucky requested a 30-day extension to the review period for D2/R1 FS for SWMUs 5 and 6. This extension will result in a 30-day extension of the subsequent FFA documents associated with SWMUs 5 and 6.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

BURIAL GROUNDS OPERABLE UNIT PROJECT: C-749 Uranium Burial Ground (SWMU 2)

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Groundwater monitoring continued at the C-749 Uranium Burial Ground, as required by the *Record of Decision for Interim Remedial Action at Solid Waste Management Unit 2 and 3 of Waste Area Group 22 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/06-1351&D1. The results for the groundwater monitoring for the October 31, 2010, through August 31, 2011, have been included as part of this report. The results of the groundwater monitoring trends through August 2011 are presented in Appendix F. Data from October 2011 through March 2012 are unavailable at this time and will be included in the October 2012 report.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

Groundwater monitoring will continue at the C-749 Uranium Burial Ground, as required by the ROD.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of C-749 Uranium Burial Ground belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center, and maintains existing burial ground cover.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

- V. Primary/Secondary Document Tracking System:
 - A) Documents under review and/or preparation during this reporting period:

None.

B) Due dates for completion of review/modification tasks:

VI.	Anticipated problems/delays (provide summary of problems, schedule, reason for delay,
	and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

None.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Sampling of the C-749 Uranium Burial Ground has been incorporated into the Environmental Monitoring Program. O&M cost is approximately \$1,000.00 per year.

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

SURFACE WATER OPERABLE UNIT

The SWOU includes the Surface Water Removal Action and Surface Water Remedial Action projects. Additionally, O&M is performed on North-South Diversion Ditch Sections 1 and 2 and institutional controls, as required by the *Operations and Maintenance Plan for Sections 1 and 2 of the North-South Diversion Ditch*, DOE/OR/07-2057&D2, and *Operations and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1904&D1; and O&M activities for the C-613 Basin are maintained in accordance with the *Operations and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R4, respectively. Inspection reports are filed in the Document Management Center, managed by SST. The estimated annual cost of this O&M is \$66,000.

Per the *Operations and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R4, the relationship of turbidity to total suspended solids is compared on a quarterly basis. No change in the existing linear regression model has occurred since July 2009 and the current maximum discharge limit for turbidity is 53 nephelometric turbidity units (NTU) with a 30-day average not to exceed 29 NTU.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

SURFACE WATER OPERABLE UNIT PROJECT: Remedial Action

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Comments on the D1 SWOU RI/FS Work Plan were received from EPA and Kentucky on October 14, 2011.
- The D2 SWOU RI/FS Work Plan was submitted to EPA and Kentucky on January 11, 2012. Conditional approval with comments was received from EPA and Kentucky on February 14, 2012, and February 15, 2012, respectively.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Revise the D2 SWOU RI/FS Work Plan based on comments received from EPA and Kentucky.
- Revise the O&M Plan for the SWOU as required by the CERCLA Five-Year Review.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the SWOU Remedial Action belongs to LATA Kentucky, as the DOE prime remediation contractor at the PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The FFA parties determined that additional time was required to further discuss the sampling strategy for the Ohio River Floodplain and associated moist soil unit based upon the walkover of those areas conducted by the FFA parties on March 12, 2012, and March 13, 2012. In addition, the FFA parties determined that additional time was required for the submittal and review of a radiological survey plan that will be included in the D2/R1 SWOU RI/FS Work Plan. As a result, a 90-day extension request was submitted that modified the milestone date for the submittal of the D2/R1 SWOU RI/FS Work Plan from March 16, 2012, to June 14, 2012.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D2 SWOU RI/FS Work Plan has been under development and EPA and Kentucky review during this reporting period.
- The O&M Plan for the SWOU has been under development during this reporting period.
- The D2/R1 SWOU RI/FS Work Plan has been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

- The O&M Plan for the SWOU is scheduled to receive regulatory approval prior to the submittal of the D1 CERCLA Five-Year Review.
- The D2/R1 SWOU RI/FS Work Plan is due to EPA and Kentucky on June 14, 2012.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

This project has been resequenced and the RI has been moved from FY 2012 to FY 2013.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

SOILS OPERABLE UNIT

The SOU is being implemented in a phased approach (i.e., pre-GDP shutdown and post-GDP shutdown). The SOU consists of 86 SWMUs/areas of concern; three inactive facilities [C-218 Firing Range (SWMU 181), C-403 Neutralization Tank (SWMU 40), C-410-B HF Neutralization Lagoon (SWMU 19)]; and the soil/rubble areas that have been identified to date. Prior to GDP shutdown, the SOU will focus on accessible plant surface soils (ground surface to 10 ft below ground surface and 16 ft below ground surface in the vicinity of pipelines) not associated with PGDP operations. Following PGDP shutdown, slabs and underlying soils associated with facilities that have undergone D&D will be addressed as part of a subsequent action (e.g., post-GDP shutdown for the Soils and Slabs OU). Actions to address 14 of the 86 SWMUs have been deferred to Soils and Slabs OU.

Due to interferences from ongoing United States Enrichment Corporation operations, implementation of the response action pursuant to an approved Action Memorandum (*Action Memorandum for Soils Operable Unit Inactive Facilities*, DOE/LX/07-0121&D2/R1), for SWMU 40 will occur after GDP shutdown. Implementation of the SWMU 40 response will be reinstituted with development, review, and approval of a RAWP.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

SOILS OPERABLE UNIT PROJECT: Remedial Action

- I. Work performed during this reporting period (including summaries of findings and any deviations from the work plan):
 - · Initiated scoping of the D1 Soils FS Report with EPA and Kentucky.
 - Initiated scoping of the additional fieldwork for the D2 Sitewide Evaluation Work Plan (SEWP) with the Radiological Technical Working Group participants from EPA and Kentucky.
 - Received comments on the D1 SOU RI Report from Kentucky on December 12, 2011, and from EPA on January 17, 2012, and began comment resolution meetings for the D2 SOU RI Report.
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):
 - Develop the D2 SOU RI Report for submittal to EPA and Kentucky.
 - Develop the D1 Soils FS Report for submittal to EPA and Kentucky.
 - Revise the D2 SEWP for submittal to EPA and Kentucky.
 - · Conduct additional fieldwork as documented in the D2/R1 SEWP.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the SOU RI belongs to LATA Kentucky, as the DOE prime remediation contractor at the PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

- IV. Statement of the manner and extent to which the requirements and time schedules are being met:
 - The D2 SOU RI Report submittal date has been extended by 30 days to August 14, 2012. As
 a result, the milestone dates for subsequent documents have been modified to reflect the 30day extension.

• The FFA parties agreed that due to the additional fieldwork request under the D2 SEWP, a modification to the D1 Site Evaluation Report (SER) milestone would be necessary. As a result, the milestone date for the D1 SER has been extended to March 5, 2013.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D2 SOU RI Report has been under development during this reporting period.
- The D1 Soils FS Report has been under development during this reporting period.
- The D2/R1 SEWP has been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

- The D2 SOU RI Report is due to EPA and Kentucky by August 14, 2012.
- The D1 Soils FS Report is due to EPA and Kentucky by July 14, 2012.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

- The milestone dates for the SOU Remedial Action have been modified by 30 days to allow for a 30-day extension for the Soils RI Report.
- Discussions are on-going among the FFA parties regarding the revision of the D2 SEWP.
 Characterization activities required based upon these discussions will be conducted, and results of the characterization will be incorporated into the D1 SER. The milestone date for submittal of the D1 SER has been extended to March 5, 2013.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

DECONTAMINATION AND DECOMMISSIONING OPERABLE UNIT

The D&D OU will employ the CERCLA removal action process to decommission excess buildings (i.e., inactive with no reuse potential) that have a known or potential release of contamination to the environment. Consistent with the 1995 DOE and EPA Memorandum, *Policy on Decommissioning DOE Facilities under CERCLA*, DOE will employ the CERCLA Non-Time-Critical Removal Action framework when appropriate. In instances where facilities do not have a known or potential release, DOE may decommission the facility as a non-CERCLA demolition action using National Environmental Policy Act documentation.

The remaining scope of the D&D OU prior to PGDP shutdown consists of the following inactive DOE facilities:

- C-410/420 Feed Plant Complex
- C-340 Metals Reduction Complex



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

D&D OPERABLE UNIT: C-410/420 Complex

The scope of this project includes D&D of the C-410 Uranium Hexafluoride (UF₆) Feed Plant, using CERCLA removal actions implemented in accordance with the FFA and consistent with the 1995 EPA and DOE Joint Policy Statement on decommissioning activities.

- I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan) for the C-410/420 Complex:
 - Initiated asbestos removal in Zones 1, 2, 7, 8, 12, 13, 22, and 26.
 - Cold traps:
 - Isolation of three traps in Zone 23 is 75% complete, and isolation of three traps in Zone 24 is 55% complete.
 - Completed isolation of three cold traps in Zone 27.
 - Isolated one bank of three cold traps in Zone 27; six individual cold traps were isolated in Zone 39.
 - Completed removal of equipment from Zone 53, basement.
 - Application of exterior fixative is 50% complete.
 - Continued HF system removal in Zone 38N.
 - HVAC system:
 - Completed HVAC stabilization in C-420 and in Zones 14, 16, 17, and 18, including fixative application.
 - Ongoing HVAC stabilization in Zones 22, 23, 24, 26, 27, 28, 31, 33, 38, 47, and 48.

- Prohibited items:
 - Completed prohibited items removal in Zones 22, 23, 26, 34, 36, and the Lime House.
 - Ongoing prohibited items removal in Zones 8, 9, 10, 11, 13, 14, 15, 16, and 17.
- UF₆ pipe
 - Completed UF₆ piping removal in Zones 27, 33, 38, and 39.
 - Ongoing UF₆ pipe removal in Zones 22, 23, 24, and 26.
- Completed accessible vacuum system removal in Zones 11, 24, 26, 27, 28, 47, and 48.
- Completed pumping water from Zone 54 Basement.

II. Schedules of activities to be performed during next reporting period (including projected work/crucial phases of construction):

- Begin waste management activities for the HVAC system.
- Demolish the boundary control station.
- Complete instrument line removal.
- Stabilize and remove the vacuum system in Zones 25 and 31.
- Cold traps:
 - Containerize cold traps in Zones 23, 24, 27, and 39.
 - Move cold traps to C-746-Q.
- Complete HF system stabilization and removal.
- Complete fluorine piping stabilization and removal.
- Complete UF₆ piping stabilization and removal.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of D&D belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

Action Memorandum Addendum for the C-410 Infrastructure Removal at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0273&D2.

B) Due dates for completion of review/modification tasks:

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

Several systems are being identified with substantial chemical or radiological holdup, which is requiring additional time and effort to stabilize.

Substantial quantities of UF₆ that was not anticipated originally have been encountered in several UF₆ lines and have required additional time and resources to complete adequate stabilization (purging out any gaseous UF₆ and then sweeping air through the lines to stabilize solid UF₆ residuals) of the lines to allow cutting and removal of the piping.

VII. Summary of all contacts with local community, public interest groups, or state government:

Provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, congressional staff, and D&D Tri-Party Working Group.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

<u>D&D OPERABLE UNIT: C-746-A East End Smelter and</u> C-340 Metals Reduction Plant Complex

The scope of this project includes demolition of the C-746-A East End Smelter and C-340 Uranium Metals Reduction Complex, using CERCLA removal actions implemented in accordance with the FFA and consistent with the 1995 EPA and DOE Joint Policy Statement on decommissioning activities. The C-746-A East End Smelter has been demolished and all wastes appropriately dispositioned in FY 2011. As a result, the following discussion pertains to the C-340 Complex only.

- I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan) for the C-340 Complex:
 - · Continued interior fixative application and equipment demobilization.
 - Completed collection and shipment of additional PCB samples in C-340 to characterize extent of PCB remediation waste; results received in January.
 - EPA requested withdrawal of Action Memorandum Addendum requesting an applicable or relevant and appropriate requirements waiver for alternative transite removal approach. Kentucky declined to approve Addendum and is awaiting EPA action on waiver request.
- II. Schedules of activities to be performed during next reporting period (including projected work/crucial phases of construction):
 - Complete interior vacuuming and fixative application, based on lessons learned from the contamination event that occurred at the Separations Process Research Unit in New York.
- III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of D&D belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

Action Memorandum Addendum for the C-340 Metals Reduction Plant Complex at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-0290&D21.

B) Due dates for completion of review/modification tasks:

EPA has notified DOE that review of the C-340 Action Memoranda will be delayed indefinitely.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

C-340—None.

VII. Summary of all contacts with local community, public interest groups, or state government:

Provided routine updates on the subproject to the Paducah Site CAB, FFA managers, local elected officials, Congressional staff, and D&D Tri-Party Working Group.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

COMPREHENSIVE SITE OPERABLE UNIT

There were no reportable activities for the Comprehensive Site Operable Unit during this reporting period.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

ADDITIONAL REPORTING

Presented in this section are updates for WAGs 1 and 7 (C-746-K Landfill, TCE Spill Sites, Underground Storage Tanks, and Kentucky Ordnance Works sites), the Community Relations Plan (CRP), the SMP, and CERCLA Waste Disposal Alternatives Evaluation.



Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

<u>PROJECT: WAGs 1 and 7 (C-746-K Landfill, TCE Spill Sites,</u> Underground Storage Tanks, and Kentucky Ordnance Works Sites)

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Surface water and groundwater monitoring continued around the C-746-K Landfill and in Bayou Creek, as required by the *Record of Decision for Waste Area Groups 1 and 7 at PGDP, Paducah, Kentucky*, DOE/OR/06-1470&D3. WAGs 1 and 7 ROD requires these data to be submitted semiannually. The results of the groundwater monitoring data from January 1995 through September 2011 are presented graphically in Appendix C. Data collected in October 2011 through March 2012 will be included in the October 2012 report.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

Surface water and groundwater monitoring will continue around C-746-K Landfill and in Bayou Creek, as required by the ROD. This monitoring is conducted and reported in accordance with other PGDP programs, such as the Groundwater Protection Program, Environmental Monitoring Program, and Kentucky Pollutant Discharge Elimination System Permit.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of WAGs 1 and 7 belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

- V. Primary/Secondary Document Tracking System:
 - A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

VI.	Anticipated problems/delays (provide summary of problems, schedule, reason for delay
	and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

None.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Sampling of the surface water for the C-746-K Landfill has been incorporated into the Environmental Monitoring Program. O&M cost is not broken out separately.

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

PROJECT: Community Relations Plan

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

DOE received approval of Revision 7 of the CRP from EPA on October 12, 2011. Kentucky previously had provided approval on August 2, 2011.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

Initiate development of Revision 8 of the CRP. The FFA parties have agreed to revise and submit the CRP for review and approval on a biannual basis (i.e., status of major projects in Chapter 2, Appendix A—Key Contacts for the PGDP and Appendix B—Public Involvement History). The next revision to the CRP (Revision 8) is due in July 2013.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the maintenance of the CRP belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Not applicable.

- V. Primary/Secondary Document Tracking System:
 - A) Documents under review and/or preparation for this reporting period:

Revision 7 of the CRP has been under EPA review during this reporting period.

B) Due dates for completion of review/modification tasks:

Revision 7 of the CRP was pending EPA review and comment/approval. Regulatory comment and/or approval was due October 11, 2011.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

PROJECT: Site Management Plan

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Based upon feedback received from the FFA managers, the FY 2012 D1 SMP was developed and submitted to EPA and Kentucky on November 14, 2011.
- DOE received comments on the FY 2012 D1 SMP on December 8, 2011, and December 14, 2011, from Kentucky and EPA, respectively. DOE submitted a 30-day schedule notification on December 16, 2011, to allow sufficient time to address EPA and Kentucky comments.
- The FFA parties held a comment resolution meeting on January 19, 2012. While the FFA parties were able to resolve the majority of comments, it was determined that significant sections of the D2 FY 2012 were pending resolution of the BGOU FS formal dispute. As a result, the FFA parties agreed to an additional 30-day extension to allow for members of the Senior Executive Committee to issue a written decision on the dispute and for the results of that decision to be incorporated into the D2 FY 2012 SMP.
- The FFA parties held a follow-up comment resolution meeting on February 16, 2012. DOE incorporated the results of the written decision on the dispute into the D2 FY 2012 SMP and addressed any remaining comments. The D2 FY 2012 SMP was issued to EPA and Kentucky on February 24, 2012, for final comments and/or approval.
- The FY 2012 SMP was approved by EPA and Kentucky on March 20, 2012, and March 22, 2012, respectively.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

DOE will initiate discussions for the development of the 2013 D1 SMP.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the maintenance of the SMP belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

FFA Section XVIII requires submittal of the SMP by November 15 of each year.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D1 FY 2012 SMP has been under development and EPA and Kentucky review during this reporting period.
- The D2 FY 2012 SMP has been under development and EPA and Kentucky review during this reporting period.

B) Due dates for completion of review/modification tasks:

- D1 FY 2013 SMP is due to EPA and Kentucky no later than November 15, 2012.
- Comments on the D1 FY 2013 SMP are due to DOE within 30 days of the document's being issued or December 15, 2012.
- D2 FY 2013 SMP, if required, is due within 15 days of receipt of regulatory comments on the D1 SMP.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

The BGOU project continued formal dispute regarding the content of the BGOU FS during development and finalization of the FY 2012 SMP. The dispute resolution affected the BGOU scope (e.g., remedial action objectives and planning assumptions) and milestone sections of the SMP. The FFA parties agreed to align the FY 2012 SMP to reflect the results of the written decision of BGOU dispute resolution and, as a result, there was a 30-day delay in reaching consensus on the BGOU text in Appendix 3 and Appendix 5 of the SMP. This in turn delayed approval of the FY 2012 SMP by 30 days.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

Facility: Paducah Gaseous Diffusion Plant Plant EPA I.D. No.: KY8-890-008-982 Reporting Period: 10/1/2011-3/31/2012

PROJECT: CERCLA Waste Disposal Alternatives Evaluation

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Submitted the conformed D2/R1 RI/FS Work Plan to Kentucky and EPA on October 20, 2011, that incorporated receipt of Kentucky and EPA approval for Appendix C of the D2/R1 RI/FS Work Plan, Proposed Groundwater Modeling Methodology, on September 22, 2011, and September 29, 2011, respectively.
- Preliminary waste acceptance criteria modeling was conducted by DOE and Kentucky. A
 symposium to present the results was facilitated by DOE's Low-Level Waste Disposal
 Facility Federal Review Group (LFRG) and held on the campus of the University of
 Kentucky February 22, 2012. Presentations were made by DOE, LFRG, EPA, Kentucky, and
 University of Kentucky staff and students.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- The D1 RI/FS Report will be submitted to EPA and Kentucky for review in May 2012.
- Initiate development of the D1 Proposed Plan for submittal to EPA and Kentucky by December 21, 2012.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the CERCLA waste disposal evaluation belongs to LATA Kentucky, as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the Administrative Record and the Environmental Information Center.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Following submittal of the RI/FS Report, the standard FFA review and comment periods for primary documents are expected to apply.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D1 RI/FS Report was under development during this reporting period.
- Finalization of the D2/R1 RI/FS Work Plan occurred during this reporting period and a conformed D2/R1 RI/FS Work Plan was provided to EPA and Kentucky on October 20, 2011.

B) Due dates for completion of review/modification tasks:

Comments and/or approval of the D1 RI/FS Report will be due within 90 days of submittal to EPA and Kentucky.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

There are no FFA dates that are being impacted.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

APPENDIX A

NORTHEAST AND NORTHWEST PLUME WATER WITHDRAWAL REPORTS



Table 1. Northeast Plume Containment System
Water Withdrawal Reporting Form (Gallons of Water Pumped)

Day	October 2011	November 2011	December 2011	January 2012	February 2012	March 2012
1	256,625	259,500	256,175	258,000	260,800	147,000
2	256,625	255,100	256,175	258,000	249,500	147,000
3	255,400	121,825	256,175	247,100	249,500	0
4	254,700	121,825	256,175	259,500	249,500	0
5	253,300	121,825	252,800	258,400	249,500	255,400
6	256,550	121,825	242,700	258,400	265,500	346,100
7	256,550	266,400	256,900	258,400	251,100	186,300
8	256,550	249,900	255,175	258,400	254,400	262,075
9	256,550	260,200	255,175	276,000	207,167	262,075
10	265,900	54,950	255,175	243,300	207,167	262,075
11	250,300	54,950	255,175	259,500	207,167	262,075
12	253,600	54,950	254,900	259,980	0	274,800
13	258,675	54,950	256,100	259,980	256,000	248,200
14	258,675	56,800	250,300	259,980	261,800	250,700
15	258,675	260,500	257,075	259,980	263,000	264,700
16	258,675	251,500	257,075	259,980	263,900	264,700
17	243,900	39,425	257,075	251,000	263,900	264,700
18	253,000	39,425	257,075	262,600	263,900	264,700
19	150,500	39,425	231,800	258,875	263,900	261,400
20	26,100	39,425	249,300	258,875	256,600	262,900
21	26,100	250,000	258,950	258,875	261,500	265,000
22	26,100	31,933	258,950	258,875	261,600	266,700
23	26,100	31,933	258,950	257,600	263,650	266,700
24	173,800	31,933	258,950	259,600	263,650	266,700
25	264,500	31,933	258,950	257,400	263,650	266,700
26	249,700	31,933	258,950	261,600	263,650	261,400
27	207,700	31,933	258,000	261,600	257,700	288,500
28	207,700	252,800	255,600	261,600	185,100	181,500
29	207,700	260,700	258,000	261,600	274,000	46,525
30	207,700	260,700	258,000	257,400	NA	46,525
31	253,800	NA	258,000	251,300	NA	46,525
Monthly Total	6,631,750	3,922,100	7,909,800	8,013,700	7,038,800	6,689,675
*Daily Average	213,927	130,737	255,155	258,506	251,386	230,678
Days water pumped	31	30	31	31	28	29

^{*}Value based on number of days water was pumped

Table 2. Northwest Plume Groundwater System Water Withdrawal Reporting Form

Day	October 2011	November 2011	December 2011	January 2012	February 2012	March 2012
1	307,023	157,980	316,853	329,876	335,880	331,678
2	222,613	157,980	316,853	329,876	332,795	331,678
3	199,460	322,475	316,853	322,040	332,795	331,678
4	242,470	322,475	316,853	335,790	332,795	331,678
5	313,150	322,475	323,830	346,233	332,795	332,570
6	293,813	322,475	312,210	346,233	336,850	327,190
7	293,813	323,170	321,200	346,233	324,280	241,450
8	293,813	312,950	319,460	0	333,200	330,368
9	293,813	322,210	319,460	300,950	334,575	330,368
10	334,620	317,988	319,460	315,000	334,575	330,368
11	326,170	317,988	319,460	334,610	334,575	330,368
12	314,710	317,988	314,930	332,810	334,575	335,890
13	97,448	317,988	322,250	332,810	330,060	359,880
14	97,448	301,320	320,080	332,810	330,600	307,910
15	97,448	299,270	320,553	332,810	316,230	349,298
16	97,448	319,680	320,553	332,810	335,018	349,298
17	327,500	318,818	320,553	328,690	335,018	349,298
18	151,120	318,818	320,553	336,230	335,018	349,298
19	332,160	318,818	325,570	333,123	335,018	274,130
20	318,963	318,818	325,160	333,123	330,390	325,460
21	318,963	313,940	328,942	333,123	334,880	282,240
22	318,963	320,070	328,942	333,123	334,090	303,930
23	318,963	320,070	328,942	331,330	324,665	303,930
24	282,970	320,070	328,942	334,790	324,665	268,030
25	308,290	320,070	328,942	331,570	324,665	268,030
26	304,630	320,070	328,942	298,513	324,665	311,770
27	253,050	320,070	318,900	298,513	331,320	325,340
28	0	317,440	324,510	298,513	211,680	325,340
29	0	322,100	329,876	298,513	293,830	325,340
30	0	311,910	329,876	337,120	NA	325,340
31	0	NA	329,876	327,910	NA	322,933
Monthly Total	7,060,825	9,217,490	9,999,378	9,825,072	9,451,500	9,897,388
*Daily Average	261,512	307,250	322,561	327,502	325,914	319,271
ys water pumped	27	30	31	30	29	31

^{*}Value based on number of days water was pumped

APPENDIX B

NORTHEAST PLUME AND NORTHWEST PLUME GRAPHS AND MAPS FIGURES B.1 THROUGH B.25



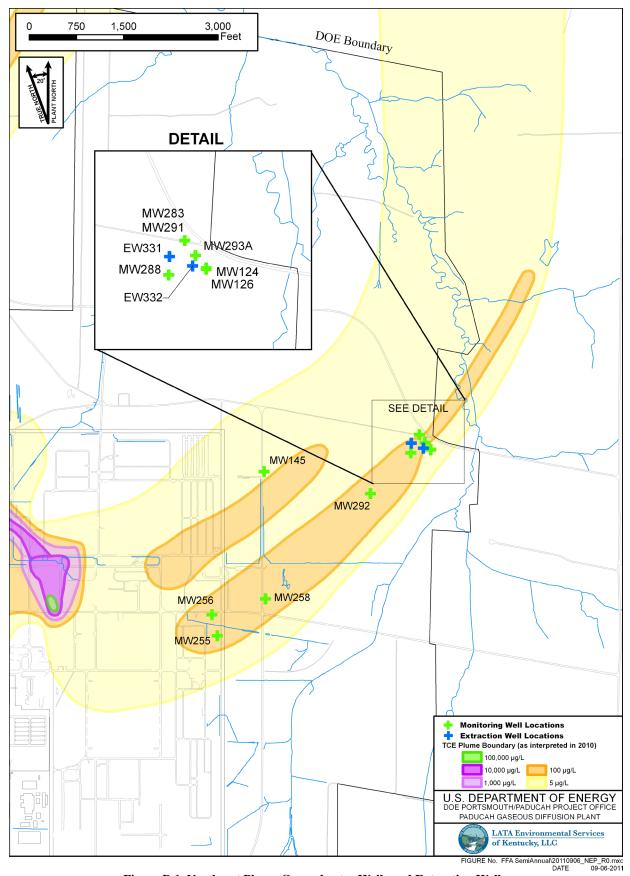


Figure B.1. Northeast Plume Groundwater Wells and Extraction Wells

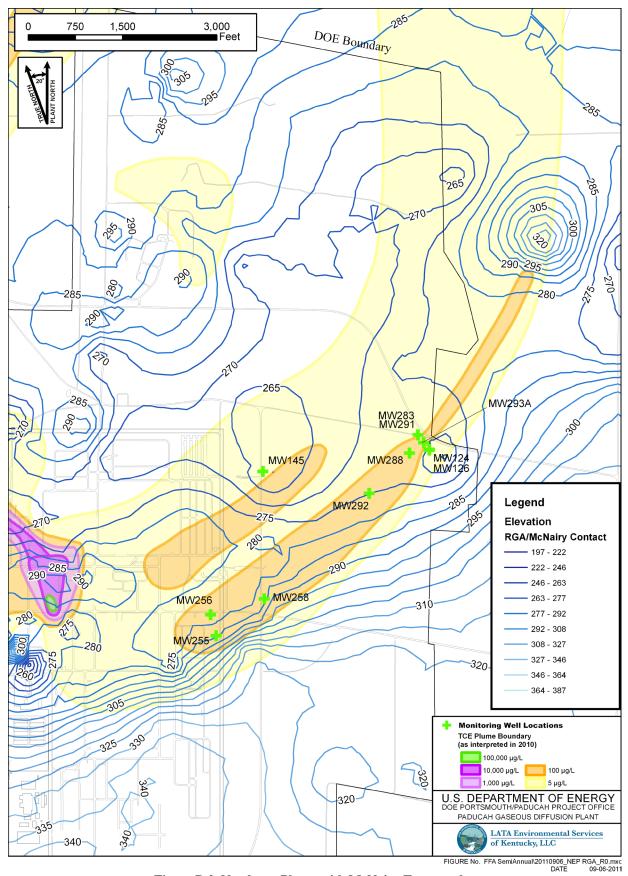


Figure B.2. Northeast Plume with McNairy Topography

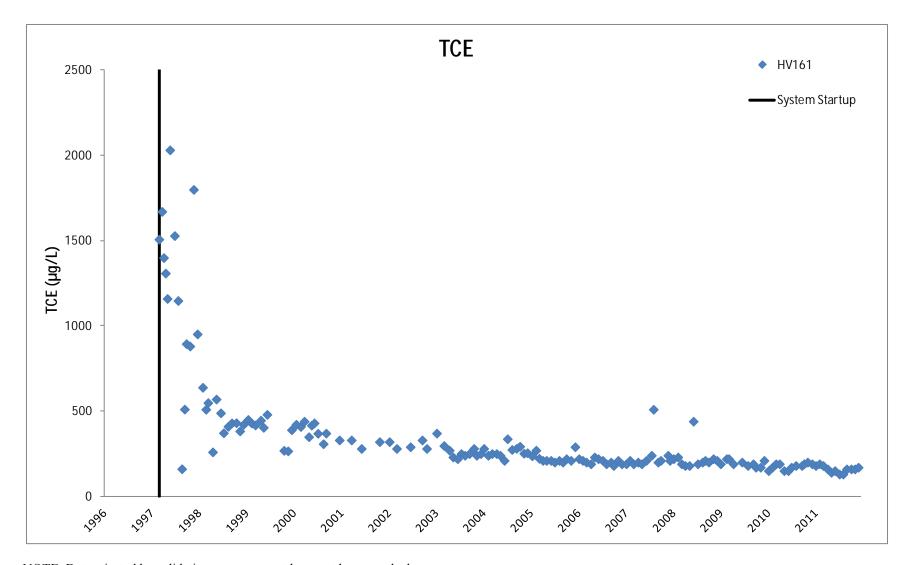


Figure B.3. Northeast Plume Containment System Influent TCE Concentrations

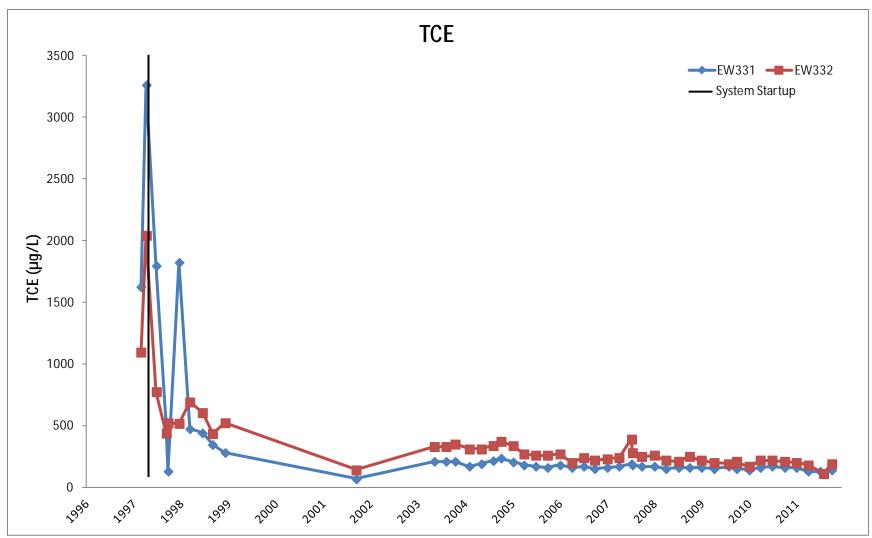
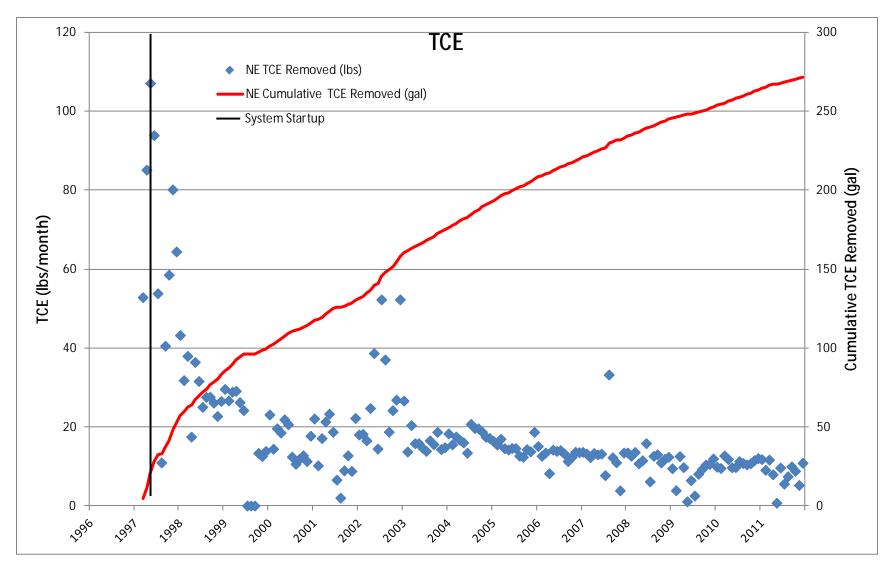


Figure B.4. Northeast Plume—TCE Concentrations in Extraction Wells



NOTE: Data rejected by validation or assessment are included on the graph.

Figure B.5. Northeast Plume Containment System TCE Removed

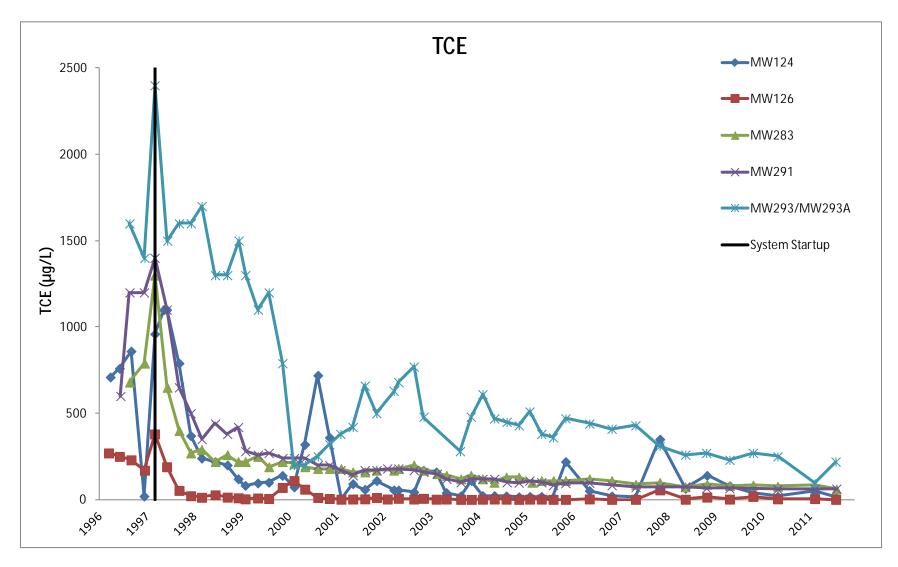


Figure B.6. Northeast Plume—TCE Concentrations in Downgradient Wells

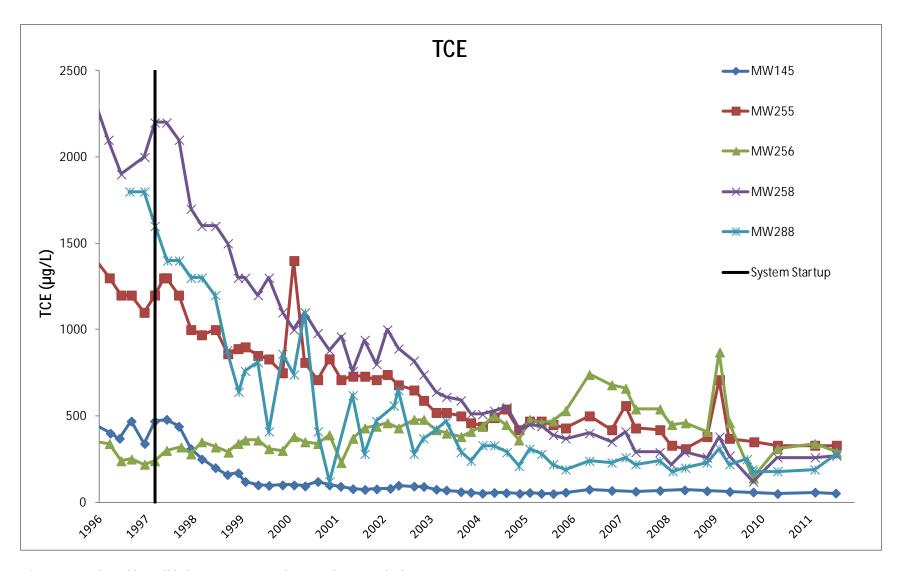


Figure B.7. Northeast Plume—TCE Concentrations in Upgradient Wells

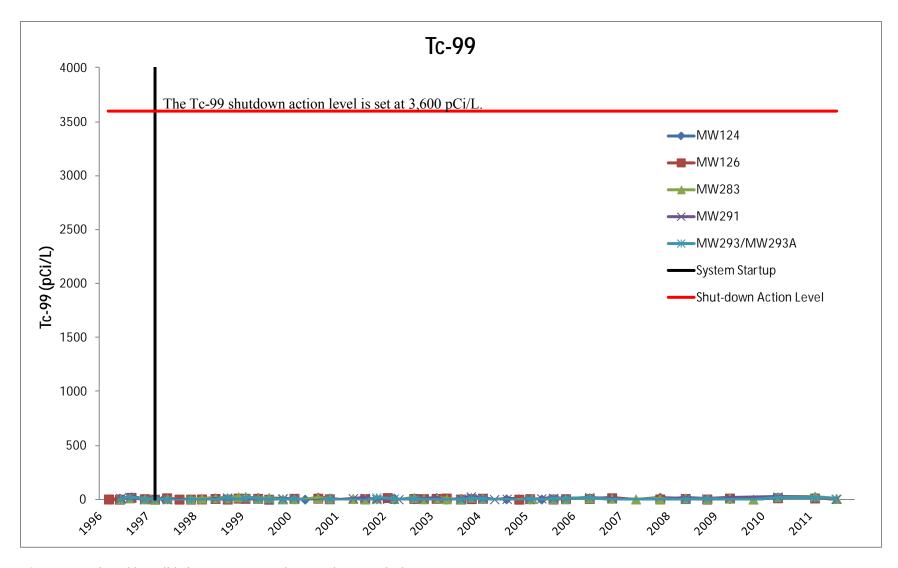


Figure B.8. Northeast Plume—Tc-99 Activities in Downgradient Wells

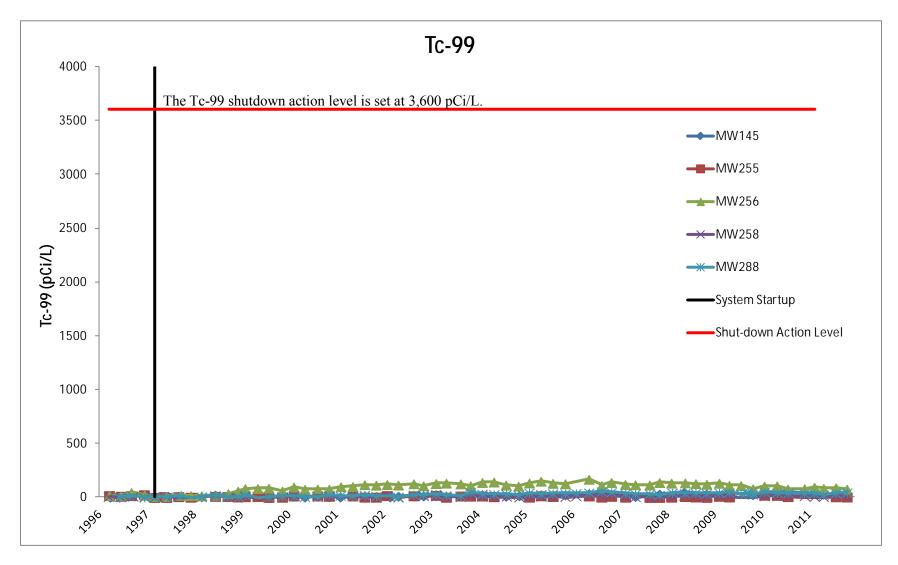


Figure B.9. Northeast Plume—Tc-99 Activities in Upgradient Wells

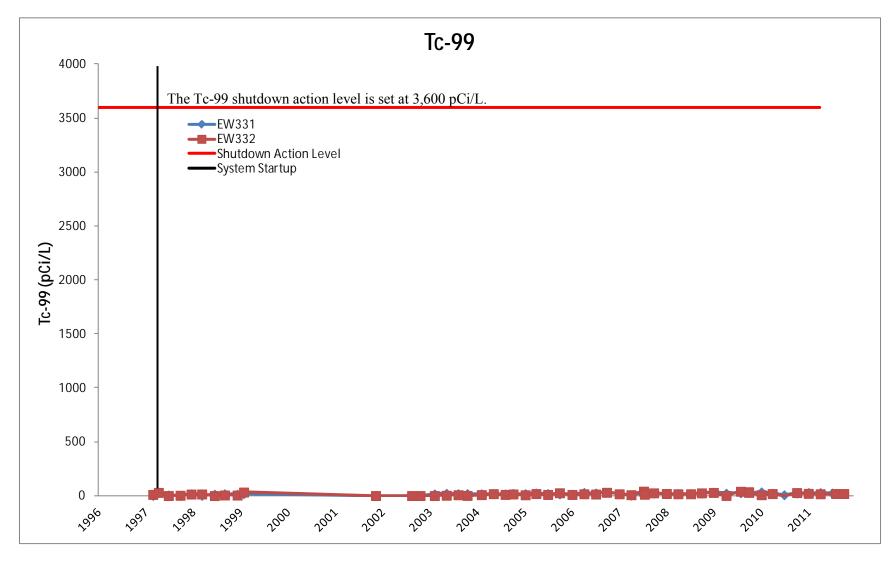


Figure B.10. Northeast Plume—Tc-99 Activities in Extraction Wells

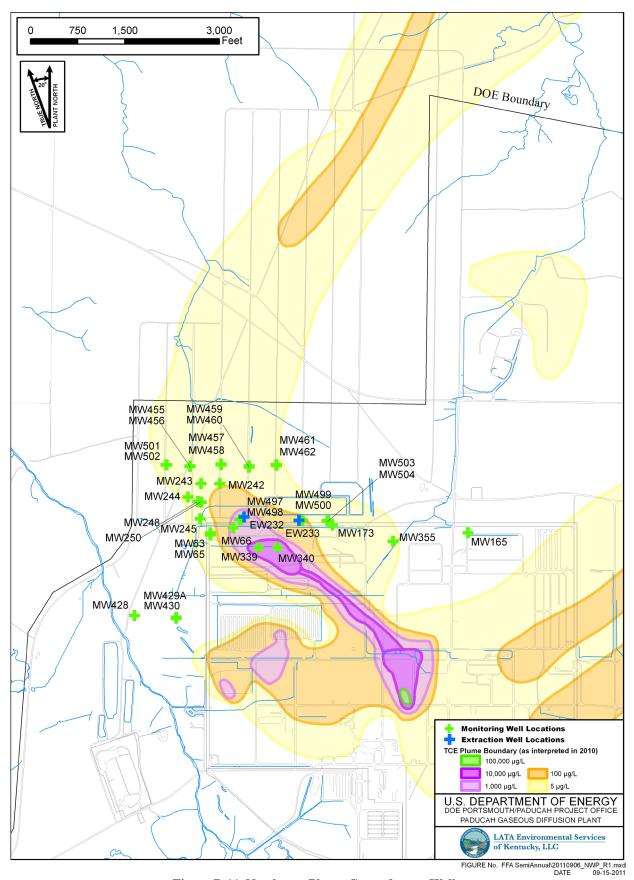


Figure B.11. Northwest Plume Groundwater Wells

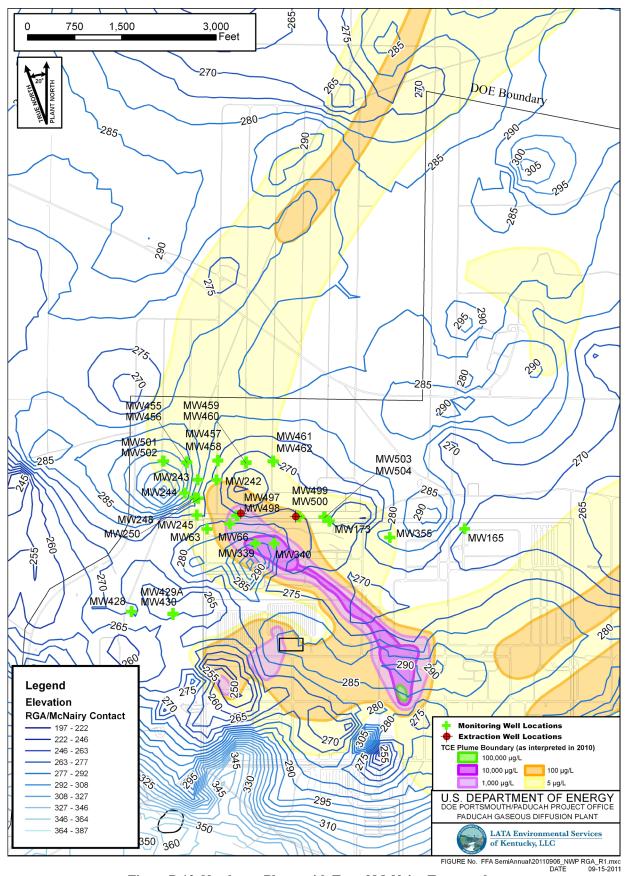


Figure B.12. Northwest Plume with Top of McNairy Topography

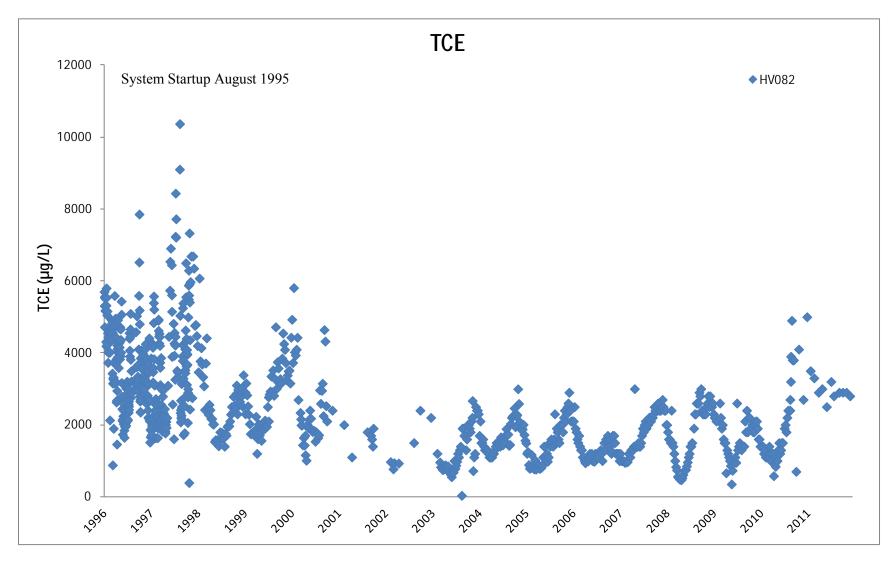


Figure B.13. Northwest Plume Groundwater System Influent TCE Concentrations

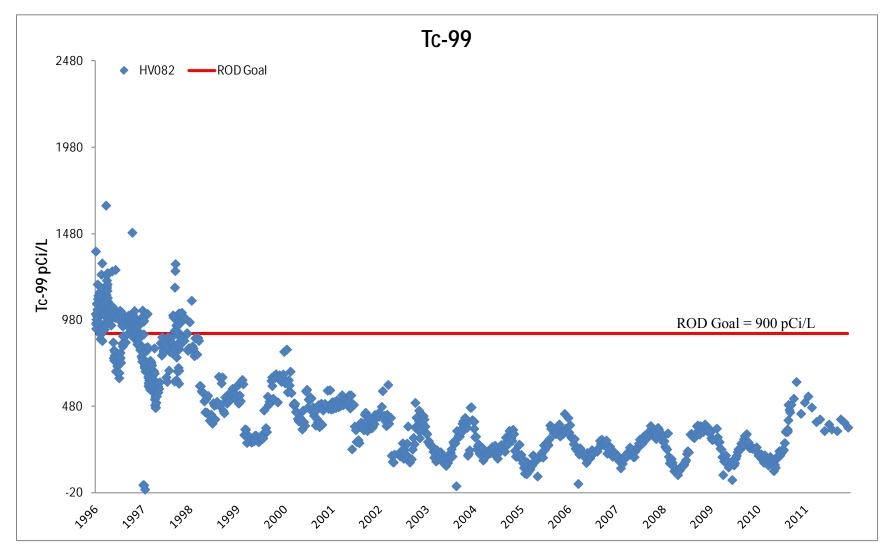


Figure B.14. Northwest Plume Groundwater System Influent Tc-99 Activities

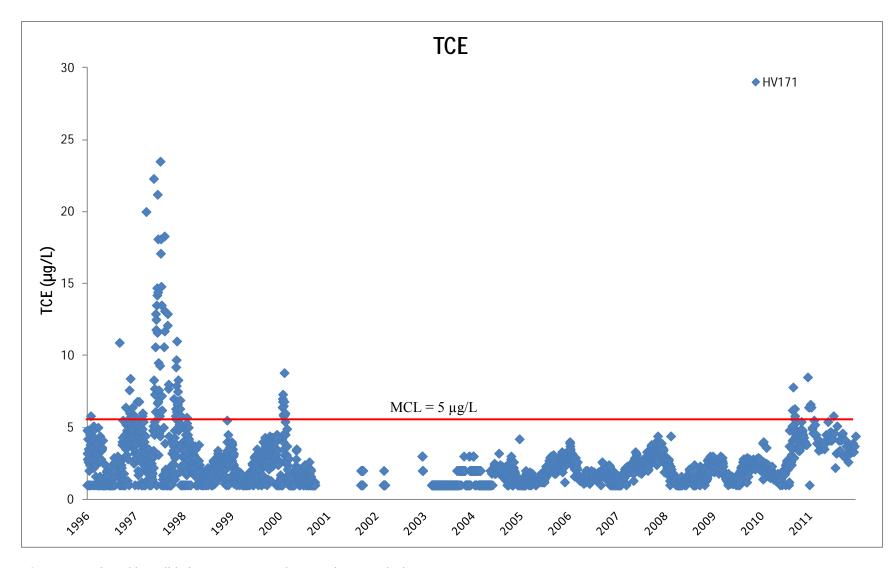


Figure B.15. Northwest Plume Groundwater System Effluent TCE Concentrations

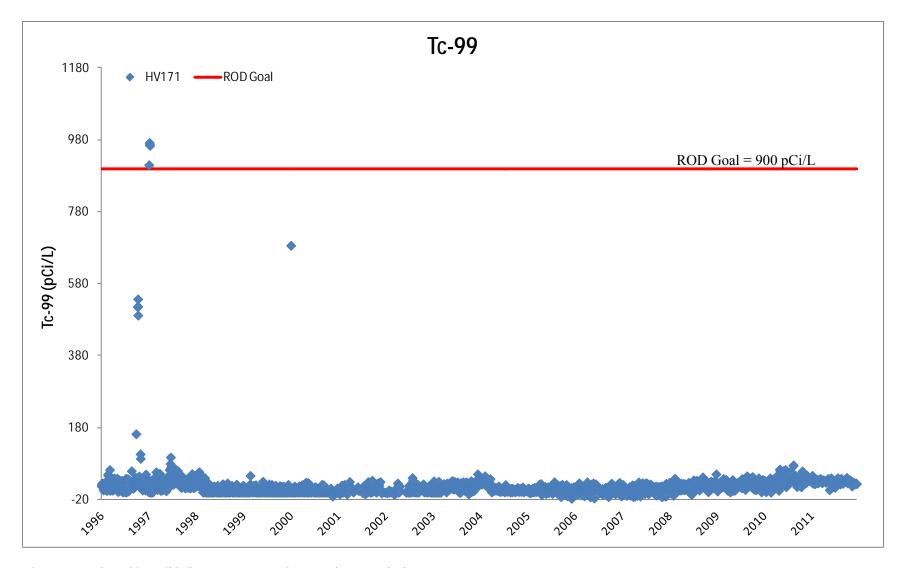
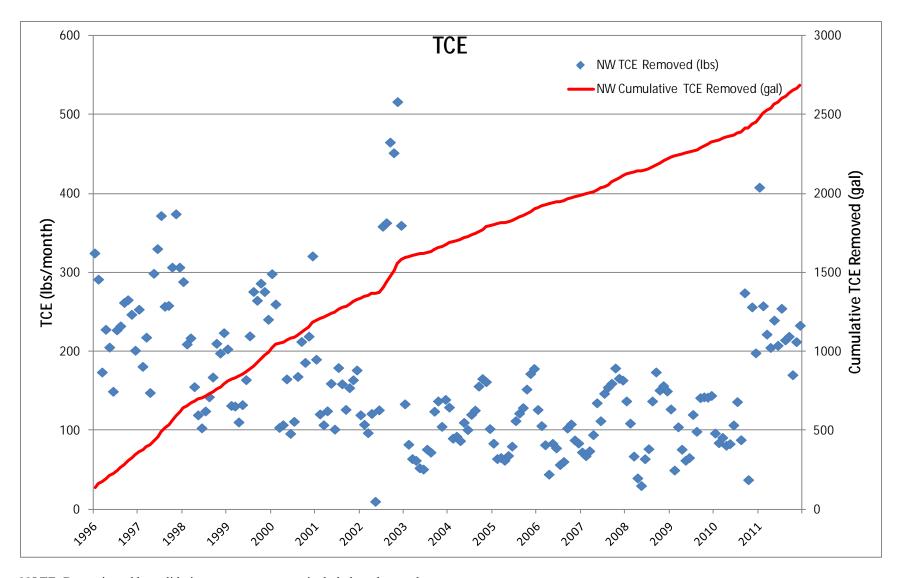


Figure B.16. Northwest Plume Groundwater System Effluent Tc-99 Activities



NOTE: Data rejected by validation or assessment are included on the graph.

Figure B.17. Northwest Plume Groundwater System TCE Removed

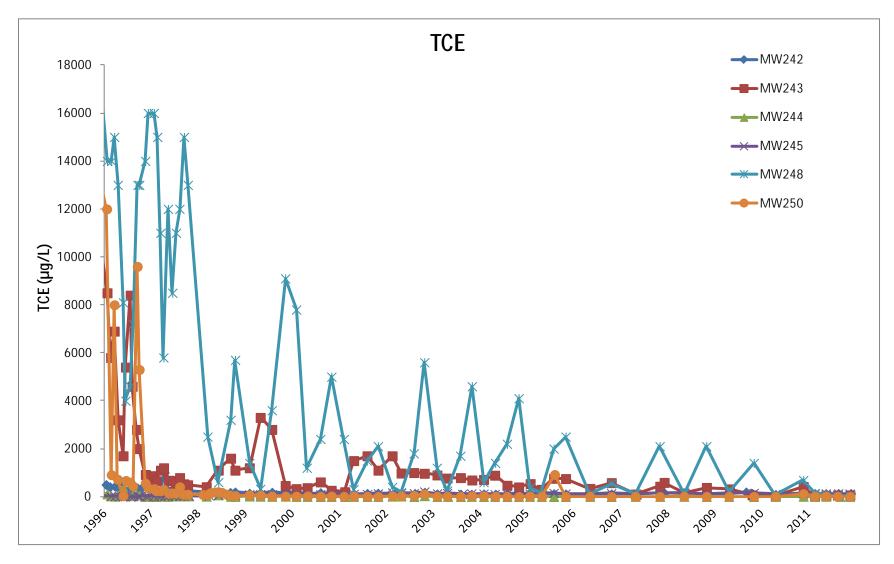


Figure B.18. Northwest Plume—South Well Field TCE Concentrations

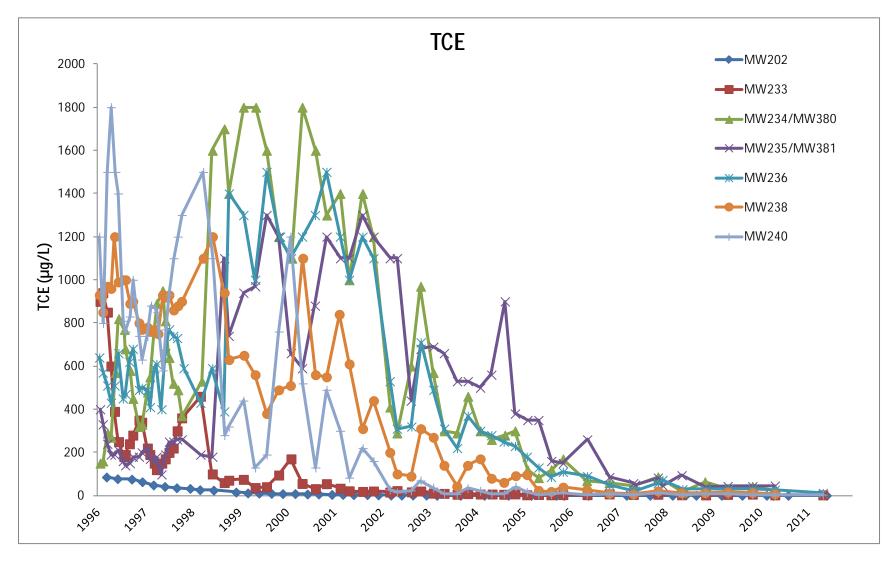


Figure B.19. Northwest Plume—North Well Field TCE Concentrations

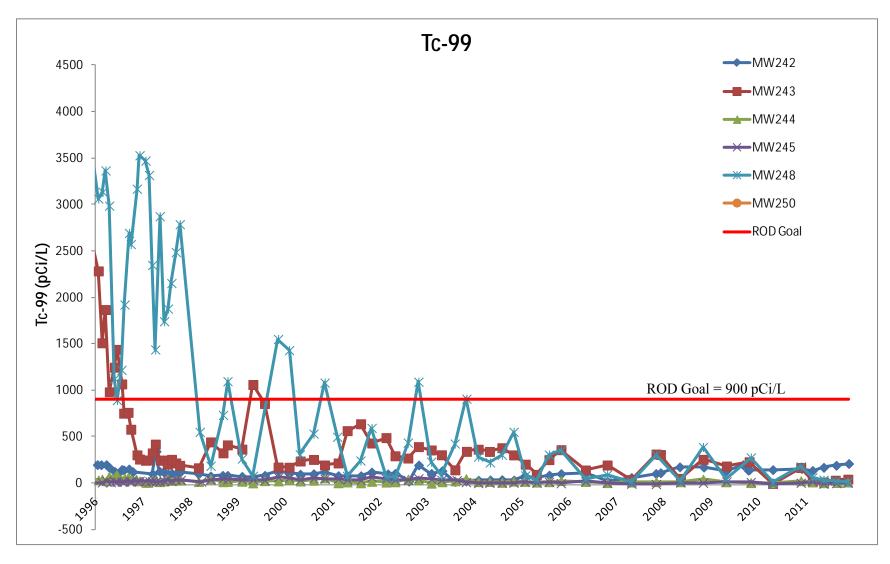


Figure B.20. Northwest Plume—South Well Field Tc-99 Activities

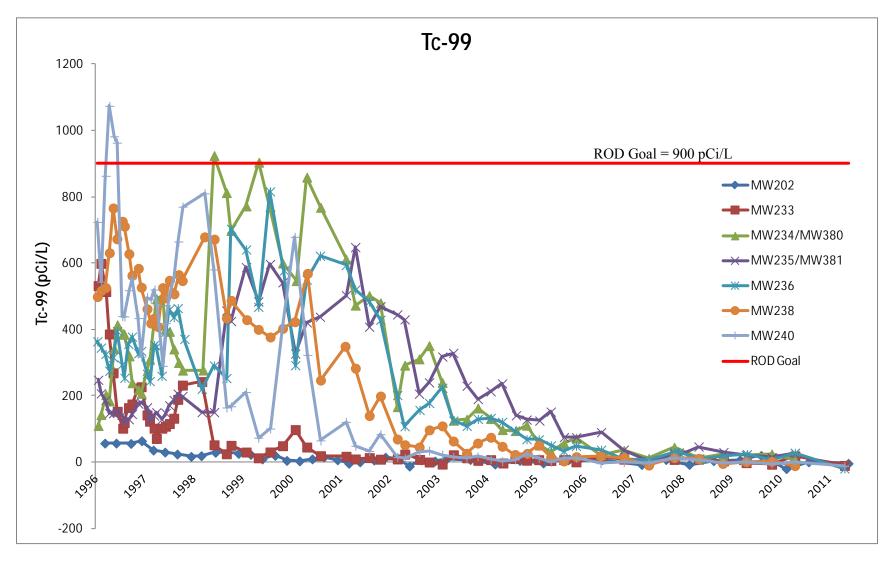


Figure B.21. Northwest Plume—North Well Field Tc-99 Activities

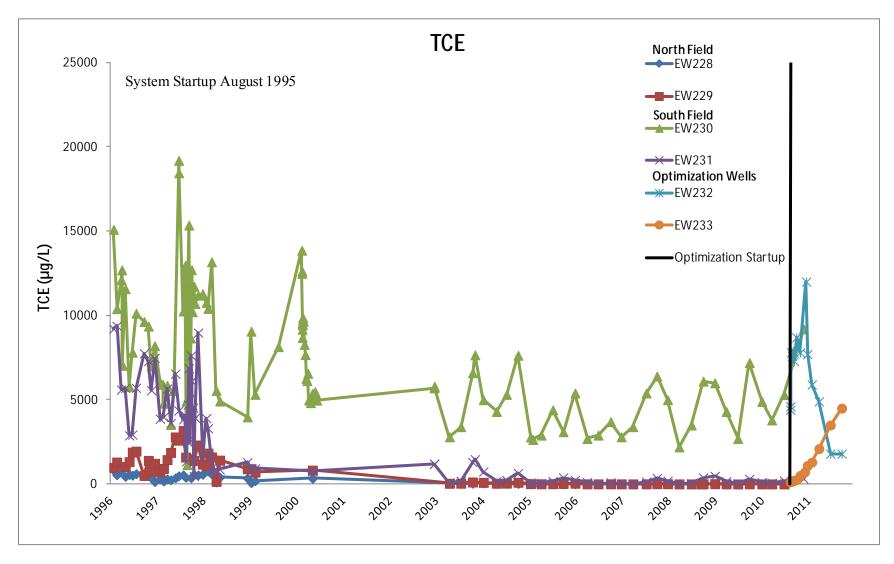


Figure B.22. Northwest Plume—TCE Concentrations in Extraction Wells

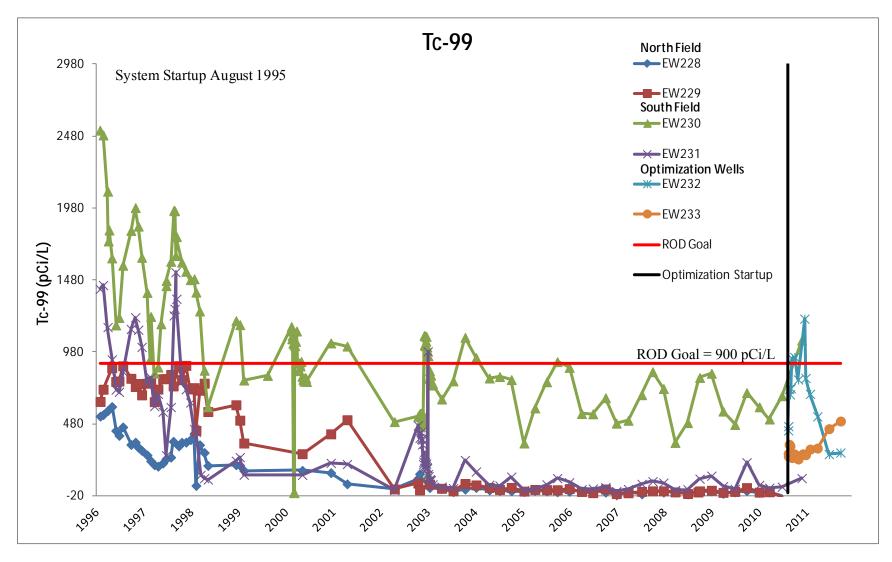


Figure B.23. Northwest Plume—Tc-99 Activities in Extraction Wells

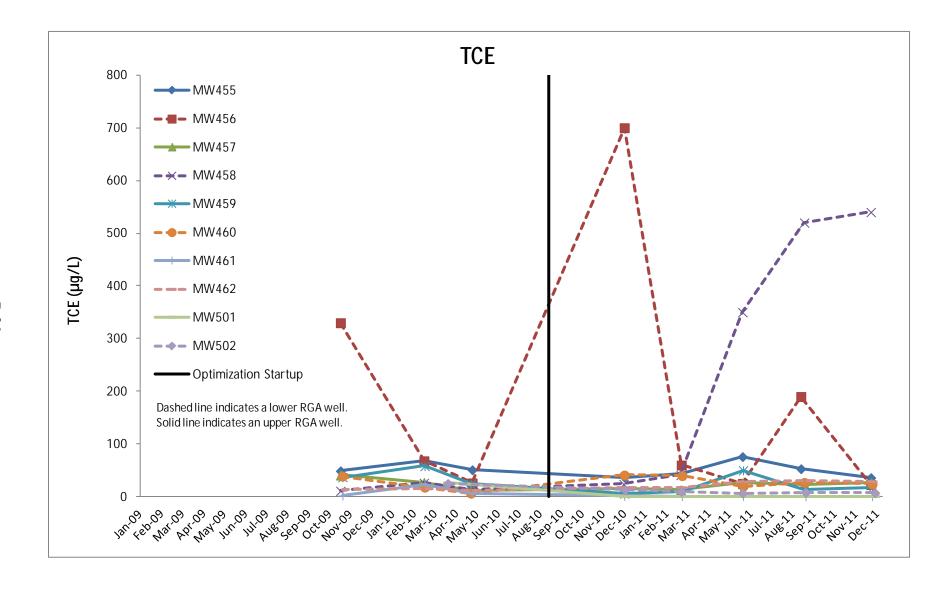


Figure B.24. Northwest Plume—New Well Field TCE Concentrations

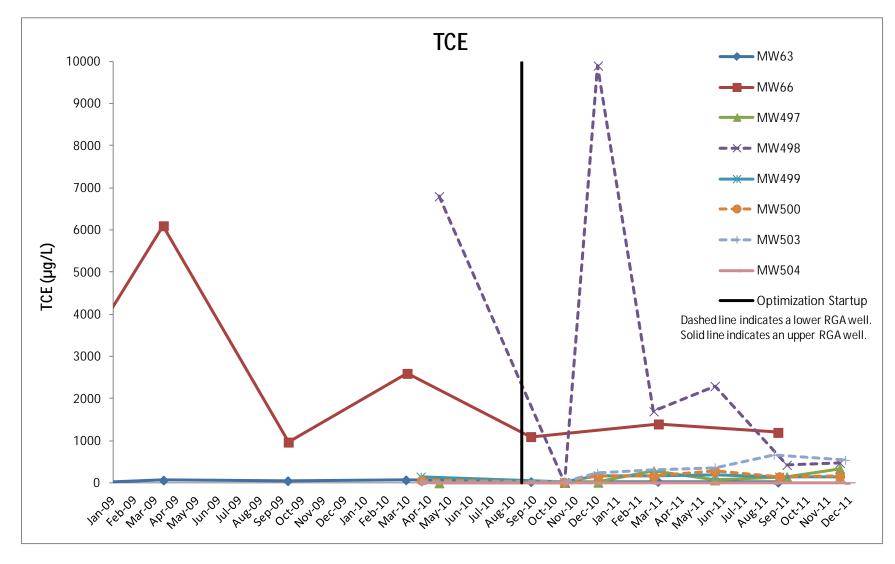
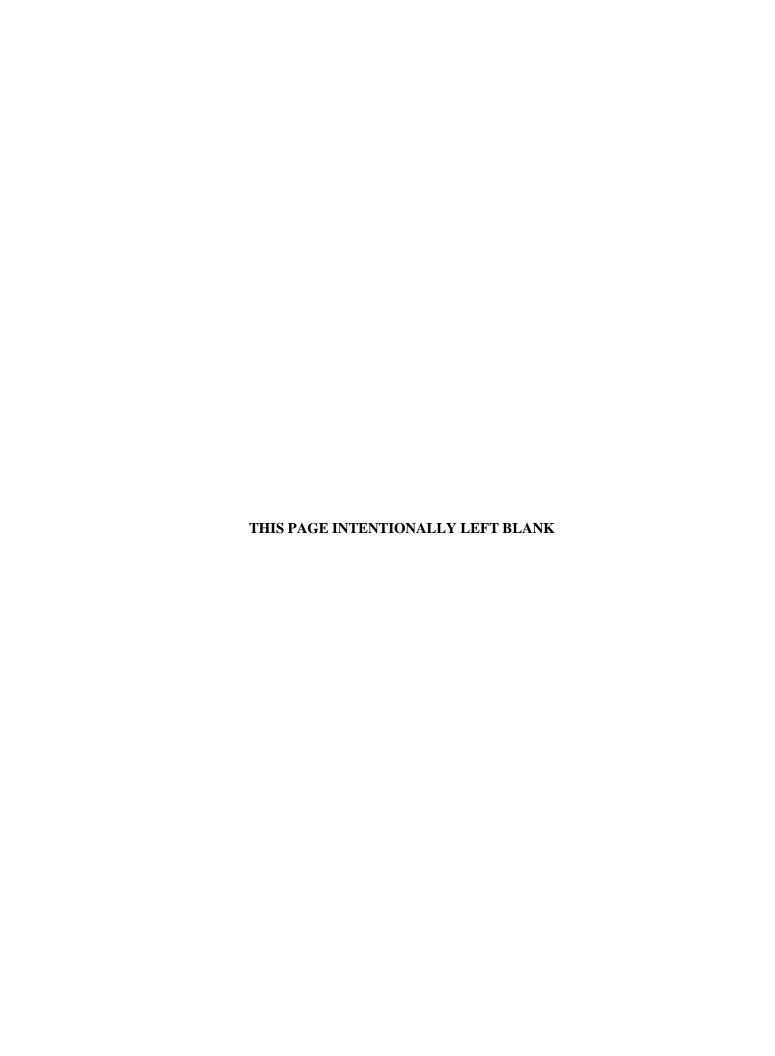


Figure B.25. Northwest Plume—Additional Well Field TCE Concentrations



APPENDIX C C-746-K LANDFILL DATA



C-746-K Landfill groundwater data for reporting period 10/1/2011-12/31/2011 are not available at the time of preparation of this report. The data will be included in the next report.

C-746-K Landfill groundwater data for reporting period 4/1/2011–9/30/2011 have been included.

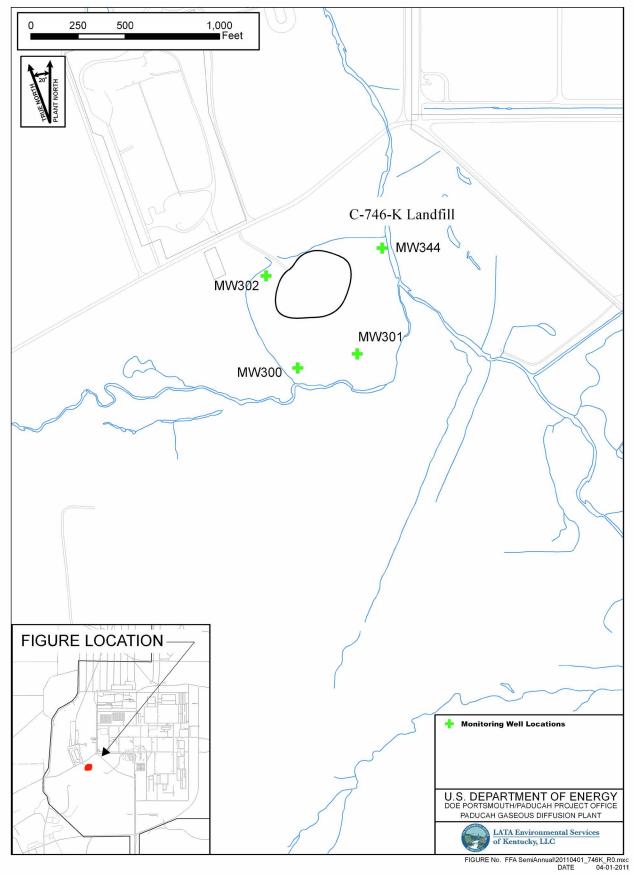
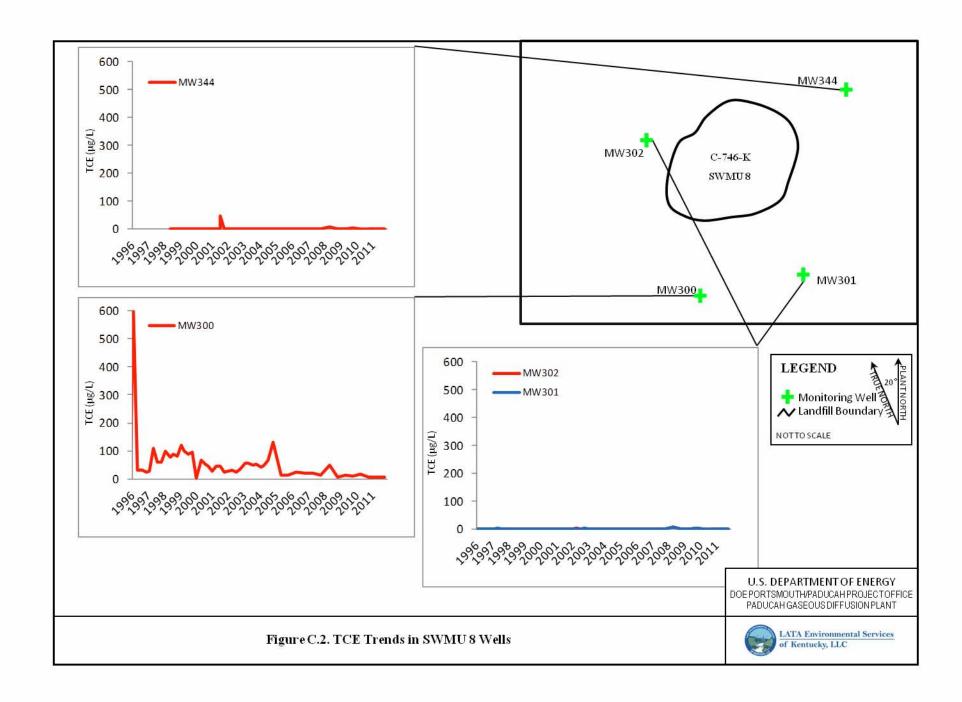


Figure C.1. Monitoring Well Locations



Water Quality Records for

MW300

				c Laboratory vsis Results			rganic Labo Analysis Res	•		logical Laboi nalysis Resul		
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
5/31/1994	27	18	23	< 5		87.7	1230	50.7	25.8	< 31.3	7.68	3220303
3/21/1995	52	72	61	< 50	< 50		973	49	33.8	27	1	950322-056
7/12/1995	38	< 50	< 50	< 50	< 50		761	52.4	47	143	3	950713-153
9/12/1995	38	< 50	< 50	< 50	< 50	52.8	679	57.5	24	33	12	950913-029
12/7/1995	42	56	47	< 5	< 5		767	44.6	59.9	-6	0	951211-006
2/13/1996	600	54	< 50	< 50	< 50	64.5	985	60			4	960214-062
5/9/1996	30	< 50	< 50	< 50	< 50	44.9	792	44.9	.4	16	2	960513-011
8/19/1996	30	< 50	< 50	< 50	< 50	37.2	568	44.4	22.9	31.5	0	960819-088
11/18/1996	26	< 50	< 50	< 50	< 50	35.8	570	37.5	7.4	48	0	961118-095
2/10/1997	28	49	30	< 25	< 25	21.3	412	20.6	5	45	0	970211-009
5/13/1997	110	120	61	< 50	< 50	31.3	518	27.6	5.2	11	0	970514-042
8/7/1997	59	< 50	68	< 50	< 50	27	497	31.2	12	13	0	970807-104
11/10/1997	59	110	66	< 25	< 25	31.8	521	32.3	-7.7	6	4	971110-114
2/4/1998	100	240	140	< 50	< 50	36.2	674	33.8	<4	< 2	< -2	C980370056
5/19/1998	78	460	< 250	< 250	< 250	30.8	534	30.5	< 6.3	< 54	< 4.8	C981400029
8/11/1998	89	230	120	< 5	< 5	27.3	532	31	< 37.7	< 11	< 9.2	C982240047
11/16/1998	80	< 250	< 250	< 250	< 250	25.2	406	28.1	32.52	< 37.03	< -4.1	C983200080
1/25/1999	120	250	< 250	< 250	< 250	27	490	27.4	< 1.11	< 4.76	< -8.4	C990250154
4/19/1999	100	240	110	< 100	< 100	26.7	559	25.7	< 28.48	< 55.05	< -4.95	C991090060
7/15/1999	88	210	< 100	< 100	< 100	24.8	506	28.3	< 2.73	< -19.36	< 3.06	C991960146
10/14/1999	94	210	< 200	< 200	< 200	23.2	500	27.2	< 18.8	< 40.17	< -1.57	C992870104
1/13/2000	2	< 5	< 5	< 5	< 5	15.9	301	19	< -4.85	< -7.6	< 8.59	C000130123
1/13/2000	2	< 5	< 5	< 5	< 5	19.2	303	20.8	< -2.5	< 24.46	< 8.53	C000130120
4/27/2000	67	130	80	< 50	< 50	18.2	310	21.4	< 10.97	66.12	< -1.63	C001190009
7/27/2000	52	< 100	< 100	< 100	< 100	15.2	318	23.7	< 15.87	< 55.01	< 11.9	C002090106
10/16/2000	46	100	60	< 5	< 5	14.8	278	23	< 8.41	< 36.69	< 2.75	C002910044
1/10/2001	28	64	39	< 5	< 5	10.3	217	18	< -9.46	< 4.09	< 2.2	C010100097
4/16/2001	44	100	64	< 50	< 50	15	340	24.1	< -7.63	< 25.6	< 27.4	C011060085
7/24/2001	44	93	59	< 50	< 50	16.4	331	28.6	< 27	< 8.41	< 7.99	C012060008
10/15/2001	26	< 50	< 50	< 50	< 50	10.6	220	18.8	< 32.5	33.9	< -2.48	C012880074
1/22/2002	29	< 100	< 100	< 100	< 100	10	286	20.9	< 43.8	< 19.4	< 3.36	C020220046
4/10/2002	30	57	< 50	< 50	< 50	13	381	26.6	< -15.1	< 50.8	< 2.75	C021010048

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Wednesday, June 05, 2013

Prepared by:

LATA Environmental Services of Kentucky, LLC 761 Veterans Avenue, PO Box 280 Kevil, KY 42053

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

Water Quality Records for

MW300

				c Laboratory sis Results			ganic Labo nalysis Re		A	logical Labor nalysis Resul		
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
7/24/2002	26	< 100	< 100	< 100	< 100	12.6	363	24.8	< 23.2	< 43.3	21.5	C022060003
7/24/2002	26	< 100	< 100	< 100	< 100	12.9	339	26.8	< 47.4	62.2	< 8.97	C022060004
10/3/2002	34	66	< 50	< 50	< 50	.0101	.33	36.9	< 26.9	< 24.9	17.5	C022760027
1/30/2003	58	160	100	< 50	< 50	10.8	395	23.5	< 3.65	< 3.52	< 1.19	C030310020
4/15/2003	58	180	< 100	< 100	< 100	6.86	437	22.9	< 2.47	< 20.3	< 4.19	C031050068
7/30/2003	42	< 100	< 100	< 100	< 100	21.9	409	27	< 9.4	< 48.7	< 1.31	C032110044
7/30/2003	50	< 100	< 100	< 100	< 100	14.3	382	25.4	< 51.5	53.5	< 4.26	C032110045
10/21/2003	53	92	63	< 50	< 50	.55	497	24.9	< 39.1	< 38	< -4.59	C032950017
1/26/2004	41	120	< 100	< 100	< 100	.471	414	1.91	< 50.1	< 1.36	< 6.71	C040260079
4/21/2004	50	140	< 100	< 100	< 100	.591	327	17.2	< -5.55	< 8.26	< -1.58	C041130033
7/15/2004	68	160	< 100	< 100	< 100	.69	424	24.2	< 21.8	< -11.1	< -7.47	C041970166
7/15/2004	55	140	< 100	< 100	< 100	.882	396	22.9	< 15	< 17.4	< -6.91	C041970167
11/9/2004	130	110	< 100	< 100	< 100	.99	369	22.9	< 12	< 29.7	< -2.6	C043150018
4/27/2005	12	51	< 50	< 50	< 50	.289	126	11.8	< 19.1	39.8	< -2.41	C051170049
10/25/2005	13	55	< 50	< 50	< 50	.259	199	16.1	< 18.1	38.4	< 8.37	C052990007
10/25/2005	14	65	< 50	< 50	< 50	.344	178	15.2	< 2.14	29.6	< 6.49	C052990006
4/11/2006	26	120	77	< 50	< 50	< .2	161	16.5	< .896	< 28.2	< -2.86	C061020009
10/23/2006	< 20	< 100	< 100	< 100	< 100	.334	124	16.2	<251	< 16.2	< 8.62	C062960050
4/12/2007	22	120	60	< 50	< 50	< .2	203	18.1	< -3.16	< 33.1	< -1.66	C071030007
10/25/2007	14	120	77	< 5	< 5	< .2	162	19.7	<658	< 25.1	< 1.82	C072980183
10/25/2007	13	120	75	< 5	< 5	< .2	166	20.2	< 4.54	27.8	< 1.13	C072980184
4/28/2008	< 5	42	34	< 25	< 5		117	16.8	<155	64.4	< .8	C081200001
10/29/2008	< 5	48	32	< 25	< 5	< .2	63.9	15	< 6.06	43.7	< 11.7	C08304013001
10/29/2008	< 5	46	29	< 25	< 5	< .2	110	16.9	< 5.22	34.8	< 6.45	C08304013002
4/30/2009	14	93	52	< 5	< 5	< .2	104	27.4	<39	37	< 5.55	C09120015001
10/19/2009	11	39	24	< 2	< 2	< .2	36.9	11.2	< -1.13	28.4	< -8.36	C09292035001
10/19/2009	9	41	24	< 2	< 2	< .2	65	9.73	< -2.41	27.1	< -8.19	C09292035002
4/20/2010	16	130	58	< 25	< 5	< .2	121	19.2	< -4.11	33.6	< -1.74	C10110009002
10/13/2010	8	140	78	< 25	< 5	< .4	165	25.5	< 2.34	62.3	< -3.09	C10286021003
10/13/2010	8	130	72	< 25	< 5	< .4	241	27.2	< 21.9	48.4	< -7.38	C10286021002
4/26/2011	< 5	68	44	< 25	< 5	.625	129	14.1	< .246	34.3	<327	C11116009001
10/19/2011	< 5	68	42	< 5	< 5	.558	155	18.4	< 2.93	65.7	< .89	C11292015001

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Wednesday, June 05, 2013

Prepared by:

LATA Environmental Services of Kentucky, LLC 761 Veterans Avenue, PO Box 280 Kevil, KY 42053

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

Water Quality Records for

MW300

				c Laboratory ysis Results			rganic Labo Analysis Res	•		ogical Labor nalysis Resul	•	
Sample Date	TCE μg/L	1,1-DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
10/19/2011	< 5	71	44	< 5	< 5	.358	78.8	15.8	< 13.2	53.9	< -4.3	C11292015002

Water Quality Records for

MW301

				c Laboratory ysis Results			rganic Labo Analysis Re	•		ological Labor nalysis Resul		
Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
6/1/1994	< 5	< 5	3	< 5		.823	470	28.3	< 10.4	< 19.4	5.07	3220101
3/21/1995	< 1	< 5	< 5	< 5	< 5		236	22	-5.9	34	3	950322-052
7/12/1995	< 1	< 5	< 5	< 5	< 5		249	22.1	14	102	9	950713-157
9/12/1995	< 1	< 5	< 5	< 5	< 5	< .625	171	17.8	-2.6	17	3	950913-025
12/7/1995	1	< 5	< 5	< 5	< 5		99	12.3	30.3	49	6	951211-014
2/13/1996	< 1	< 5	< 5	< 5	< 5	.766	166	18.9	6.3	82	0	960214-066
5/9/1996	< 1	< 5	< 5	< 5	< 5	.975	224	18	.3	22	3	960513-010
8/19/1996	< 1	< 5	< 5	< 5	< 5	1.58	284	21.3	5.5	42.4	7	960819-087
11/18/1996	< 1	< 5	< 5	< 5	< 5	1.32	175	19.5	-1.4	47	0	961118-096
11/18/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	< .05	6	15	0	961118-097
2/10/1997	< 1	< 5	< 5	< 5	< 5	1.13	225	19.8	12.6	47	0	970211-015
5/13/1997	4	< 5	< 5	< 5	< 5	< .75	248	22	-11	45	0	970514-043
8/7/1997	< 1	< 5	< 5	< 5	< 5	< 1	203	17.2	19.2	160	0	970807-105
11/10/1997	< 1	< 5	< 5	< 5	< 5	< 1	72.4	10	4.3	18	3	971110-115
2/4/1998	< 1	< 5	< 5	< 5	< 5	2.44	160	15.8	< -11.3	106	< 4	C980370057
5/19/1998	< 1	< 5	< 5	< 5	< 5	< 1	169	17.4	< -2.3	< 25	< 8.2	C981400028
8/11/1998	< 1	< 5	< 5	< 5	< 5	2.13	170	16.3	< -2.3	< 35	< 4.3	C982240046
11/16/1998	< 1	< 5	< 5	< 5	< 5	< 1	102	12.8	< 11.32	55.82	< -15.9	C983200081
1/25/1999	< 1	< 5	< 5	< 5	< 5	< 1	138	14.9	< 3.83	< 52.42	< -5.8	C990250155
4/19/1999	< 1	< 5	< 5	< 5	< 5	< .2	203	18.2	< -6.97	< 49.78	< -10.6	C991090061
7/15/1999	< 1	< 5	< 5	< 5	< 5	< .2	210	17.5	< -12.3	< 32.1	< -6.69	C991960147
10/14/1999	< 1	< 5	< 5	< 5	< 5	< .2	73.7	10.6	17.2	50.79	< 2.57	C992870106
10/14/1999	< 1	< 5	< 5	< 5	< 5	< .2	73.1	10.3	< 1.83	41.56	< .419	C992870105
1/13/2000	< 1	< 5	< 5	< 5	< 5	< .2	77.8	9.32	< 6.93	52.05	< 6.54	C000130122
4/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	152	15.6	< 4.87	< -6.93	< -12.6	C001190010
7/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	135	14.9	< 2.09	< 4.03	< -2.23	C002090105
10/16/2000	< 1	< 5	< 5	< 5	< 5	< .2	70.6	10.6	< -16.56	63.66	< -2.02	C002910045
1/10/2001	< 1	< 5	< 5	< 5	< 5	< .2	95.6	12.2	< 6.56	27.9	< -1.62	C010100098
4/16/2001	< 1	< 5	< 5	< 5	< 5	.231	128	13.8	< 11.1	30.1	< 5.23	C011060088
4/16/2001	< 1	< 5	< 5	< 5	< 5	1.86	139	13.8	< 16.1	32.7	< 10.7	C011060087
7/24/2001	< 1	< 5	< 5	< 5	< 5	< .2	106	13.1	<871	54.4	< 7.08	C012060010
10/15/2001	< 1	< 5	< 5	< 5	< 5	< .2	107	12.8	< 21.9	37.9	< 5.53	C012880075

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Wednesday, June 05, 2013

Prepared by:

LATA Environmental Services of Kentucky, LLC 761 Veterans Avenue, PO Box 280 Kevil, KY 42053

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

Water Quality Records for

MW301

			8	Laboratory sis Results			ganic Labo nalysis Res	•		logical Laboi nalysis Resul	•	
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
1/25/2002	< 1	< 5	< 5	< 5	< 5	< .2	146	14.5	< 3.69	< 28.3	< 2.51	C020250055
1/25/2002	< 1	< 5	< 5	< 5	< 5	< .2	154	15.4	< -2.44	51.6	< 6.3	C020250056
4/10/2002	< 1	< 5	< 5	< 5	< 5	.317	172	16.2	< 19	< 5.09	< .617	C021010049
7/24/2002	< 1	< 5	< 5	< 5	< 5	< .2	186	15.4	< 36.1	< 23.5	17.8	C022060005
10/3/2002	3	< 5	< 5	< 5	< 5	< .002	< .2	14.5	< 5.72	46.8	< 15	C022760029
1/30/2003	< 1	< 5	< 5	< 5	< 5	.287	166	15.5	< -1.71	< 6.29	<324	C030310017
1/30/2003	< 1	< 5	< 5	< 5	< 5	4.62	203	16.1	< .197	< 3.65	< 3.3	C030310018
4/14/2003	< 1	< 5	< 5	< 5	< 5	1.03	232	17.2	< .227	< 37.1	<162	C031040077
7/30/2003	< 1	< 5	< 5	< 5	< 5	.71	218	15.4	< 32.9	50.2	< 2.84	C032110046
10/21/2003	< 1	< 5	< 5	< 5	< 5	< .2	257	17.4	< 9.47	< 31.4	< 0	C032950018
1/26/2004	< 1	< 5	< 5	< 5	< 5	.39	267	19.6	< 14.9	53.3	< 10.8	C040260080
1/26/2004	< 1	< 5	< 5	< 5	< 5	.577	266	19.3	< 17.7	73	< 11.7	C040260081
4/21/2004	< 1	< 5	< 5	< 5	< 5	< .2	238	18	< 9.42	< 42.4	< -3	C041130034
7/15/2004	< 1	5	5	< 5	< 5	< .2	277	19.8	< 17.3	< 40.3	< -12.4	C041970168
10/19/2004	< 1	< 5	< 5	< 5	< 5	< .2	152	13.7	< -32.8	< 33.7	< -1.56	C042940033
4/27/2005	< 1	< 5	< 5	< 5	< 5	< .2	232	20.1	<987	129	< -6.58	C051170050
10/25/2005	< 1	5.1	5.6	< 5	< 5	< .2	289	19.9	< -12.7	51.3	< 4.49	C052990008
4/11/2006	< 1	< 5	5.4	< 5	< 5	< .2	279	19.6	< 3.04	62	< 8.86	C061020011
4/11/2006	< 1	< 5	5.2	< 5	< 5	< .2	287	20.9	< 8.03	50.9	< -2.97	C061020010
10/23/2006	< 1	5.9	5.8	< 5	< 5	.76	295	20.5	< 13.7	< 31.7	< 15.3	C062960051
4/12/2007	< 1	< 5	< 5	< 5	< 5	2.42	265	15.8	< 7.86	60.8	< 4.66	C071030005
10/25/2007	< 1	3.6	3.1	< 1	< 1	1.06	117	8.42	< 1.59	39.3	< -9.49	C072980109
4/28/2008	< 1	< 1	2.9	< 5	< 1		192	15.3	< 25.6	45.9	< -3.1	C081190047
4/28/2008	< 1	< 1	2.8	< 5	< 1		185	14.7	< 20.4	79.9	< -4.91	C081190048
10/29/2008	< 1	3.8	3.9	< 5	< 1	< .2	240	16.3	< 7.81	77.1	< 5.16	C08304013003
4/30/2009	< 1	4.5	4.4	< 1	< 1	< .2	160	14.5	< 17.8	85	< 12.3	C09120015003
4/30/2009	< 1	3.8	3.9	< 1	< 1	< .2	228	15.9	< 7.32	71	< 7.74	C09120015002
10/19/2009	3.8	5.5	4.8	< 1	< 1	< .2	208	14	< .393	58.6	< -1.75	C09292035003
4/20/2010	< 1	< 5	3	< 5	< 1	< .2	198	13.8	< 11.5	50.7	< -8.41	C10110009004
4/20/2010	< 1	< 5	2.9	< 5	< 1	< .2	196	13.7	< -7.51	45.2	< -8.84	C10110009005
10/13/2010	< 1	< 5	1.9	< 5	< 1	< .4	133	11	<711	56.4	< -4.72	C10286021005
4/26/2011	< 1	< 5	< 1	< 5	< 1	.247	176	14.5	< 8.21	68	< -13.4	C11116009002

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Prepared by:

LATA Environmental Services of Kentucky, LLC 761 Veterans Avenue, PO Box 280 Kevil, KY 42053

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

Water Quality Records for

MW301

				c Laboratory ysis Results			rganic Labo Analysis Re	•		logical Laboi nalysis Resul	•	
Sample Date	TCE μg/L	1,1-DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE μg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
10/19/2011	< 1	< 5	1.7	< 1	< 1	.298	183	11.8	< 8.7	86.5	< 4.3	C11292015003

Water Quality Records for

MW302

				c Laboratory vsis Results			rganic Lab Analysis Re			logical Laboi nalysis Resul		
Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
6/1/1994	< 5	< 5	< 5	< 5		.415	.238	.189	< 3.09	< 3.11	< .94	3220301
3/21/1995	< 1	< 5	< 5	< 5	< 5		2.6	.26	2.2	5	8	950322-048
7/12/1995	< 1	< 5	< 5	< 5	< 5		.702	.175	4	13	6	950713-149
9/11/1995	< 1	< 5	< 5	< 5	< 5	1.3	1.06	.139	7.2	2	13	950912-007
12/7/1995	< 1	< 5	< 5	< 5	< 5		2.39	.087	6.2	3	2	951211-018
2/13/1996	< 1	< 5	< 5	< 5	< 5	2.14	1.68	.08	-6	-2	1	960214-054
2/13/1996	< 1	< 5	< 5	< 5	< 5	2.61	2.14	.099	-5.4	-4	0	960214-058
5/9/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	.041	.9	17	6	960513-009
8/20/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	< .05	12.3	5	11	960821-020
8/20/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	.058	4.4	6	6	960821-022
2/10/1997	< 1	< 5	< 5	< 5	< 5	< .75	1.64	.19	2.9	3	0	970211-010
2/10/1997	< 1	< 5	< 5	< 5	< 5	< .75	.31	.157	2	1	0	970211-011
5/13/1997	< 1	< 5	< 5	< 5	< 5	< .75	< .3	.099	5.9	3	10	970514-044
8/7/1997	< 1	< 5	< 5	< 5	< 5	< 1	< .25	< .1	2.8	1	0	970807-144
8/7/1997	< 1	< 5	< 5	< 5	< 5	< 1	< .25	.12	1.6	1	2	970807-145
11/10/1997	< 1	< 5	< 5	< 5	< 5	1.02	1.09	.11	9.8	14	0	971110-118
2/5/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .5	.114	< 1.8	< 0	< 5	C980370102
2/5/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .5	< .1	< 1.2	< 4	< -2	C980370103
5/20/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .25	.164	< 2.3	37	< 2.1	C981400088
5/20/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .25	.167	<9	8	< 2.8	C981400087
8/11/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.173	< 7.6	11	< -7.6	C982240043
8/11/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.143	< 1	< 4	< -1	C982240044
11/16/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.1	< 3.6	8.03	< -7.2	C983200082
1/25/1999	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.11	< .86	< .3	< -19.8	C990250156
4/19/1999	< 1	< 5	< 5	< 5	< 5	.22	< .2	.122	< 1.67	< 4.72	< -18.5	C991090062
7/15/1999	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.157	< .82	< -20.12	< 5.04	C991960148
10/14/1999	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.069	< 4.18	< 3.33	< -1.15	C992870107
1/13/2000	< 1	< 5	< 5	< 5	< 5	< .2	.381	.05	< .05	< 5.09	< 1.59	C000130119
4/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.11	< 4.56	< 2.89	< -21.3	C001190011
4/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.118	< 1.91	< 4.14	< -16.4	C001190012
7/27/2000	< 1	< 5	< 5	< 5	< 5	.203	.315	.185	< 6.72	< 4.08	< -2.03	C002090104
10/16/2000	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.08	< 2.79	22.54	< 5.95	C002910046

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Prepared by:

LATA Environmental Services of Kentucky, LLC 761 Veterans Avenue, PO Box 280 Kevil, KY 42053

Water Quality Records for

MW302

				Laboratory sis Results			rganic Labo Analysis Re			logical Labo nalysis Resul		
Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE μg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
1/10/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.101	< -4.7	< 3.52	< 2.65	C010100095
1/10/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.112	< .329	< 5.56	< 8.77	C010100096
4/16/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.068	< -4.37	< 1	< 12.2	C011060086
7/24/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.053	< 1.09	< 1.72	< 12.4	C012060011
10/15/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.207	< 2.32	< .344	< 4.48	C012880076
1/22/2002	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.047	< 5.75	< 1.7	< 11.5	C020220047
4/10/2002	2	< 5	< 5	< 5	< 5	< .2	< .2	.062	< 2.37	< -2.75	< -3.64	C021010051
4/10/2002	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.054	< 5.56	< -1.95	< 4.88	C021010050
7/24/2002	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.056	9.53	< 2.21	< 14.7	C022060006
10/3/2002	< 1	< 5	< 5	< 5	< 5	< .002	< .002	.0688	< 9.5	< 2.76	< 10.1	C022760028
1/30/2003	< 1	< 5	< 5	< 5	< 5	.639	.762	.144	<209	< 1.74	< 2.05	C030310021
4/15/2003	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.0607	< 2.62	< 1.04	< 4.54	C031050066
4/15/2003	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.0609	< -4.39	43.1	16.2	C031050067
7/30/2003	< 1	< 5	< 5	< 5	< 5	< .2	.523	1.3	< 6.9	< 4.11	< -9.55	C032110047
10/21/2003	< 1	< 5	< 5	< 5	< 5	< .2	5.77	1.88	< 4.13	< 2.82	< -6.62	C032950016
1/26/2004	< 1	< 5	< 5	< 5	< 5	< .2	2.64	1.98	< -3.37	9.48	< 6.25	C040260078
4/21/2004	< 1	< 5	< 5	< 5	< 5	< .2	.611	1.63	< 6.89	< -1.62	<819	C041130035
4/21/2004	< 1	< 5	< 5	< 5	< 5	< .2	.302	1.71	< -1.61	<897	< 5.4	C041130036
7/15/2004	< 1	< 5	< 5	< 5	< 5	< .2	1.18	1.63	< 5.85	<825	< -12.4	C041970169
10/19/2004	< 1	< 5	< 5	< 5	< 5	< .2	.244	1.06	< -4.94	< 3.65	< 4.4	C042940032
4/27/2005	< 1	< 5	< 5	< 5	< 5	< .2	.154	.708	< .394	< .723	< 15.5	C051170051
4/27/2005	< 1	< 5	< 5	< 5	< 5	< .2	< .1	.675	< 1.48	< 3.76	< 15.3	C051170052
10/25/2005	< 1	< 5	< 5	< 5	< 5	< .2	< .1	1.35	< -1.17	< .46	< 9.83	C052990009
4/11/2006	< 1	< 5	< 5	< 5	< 5	.418	1.02	.572	< -1.64	< 3.54	< .914	C061020008
10/26/2006	< 1	< 5	< 5	< 5	< 5	< .2	.128	.986	< -3.44	< 2.09	< 8.97	C062990103
10/26/2006	< 1	< 5	< 5	< 5	< 5	.347	.479	.99	<702	< 3.23	< 8.62	C062990102
4/12/2007	< 1	< 5	< 5	< 5	< 5	< .2	.131	.345	< 4.96	< 3.59	< 13.1	C071030006
10/25/2007	< 1	< 1	< 1	< 1	< 1	< .2	.317	.622	< 3.48	< 4.7	< -3.38	C072980110
4/28/2008	< 1	< 1	< 1	< 5	< 1		< .1	.263	< 3.99	<184	< -5.34	C081190049
10/29/2008	< 1	< 1	< 1	< 5	< 1	.23	.281	.319	< 1.16	< .994	< 10.6	C08304013004
4/30/2009	< 1	< 1	< 1	< 1	< 1	< .2	< .1	.215	< 1.78	< 1.17	< 1.39	C09120016001
10/19/2009	2.1	< 1	< 1	< 1	< 1	.493	.425	.433	< .942	< 1.51	< -6.33	C09292035004

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Water Quality Records for

MW302

				c Laboratory ysis Results			rganic Labo Analysis Re			ological Labo Analysis Resul		
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE μg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
4/20/2010	< 1	< 5	< 1	< 5	< 1	.933	1.5	1.01	< 1.13	< 1.46	<868	C10110009001
10/13/2010	< 1	< 5	< 1	< 5	< 1	< .4	.21	.245	< 4.95	< 2.61	< 2.66	C10286021004
4/26/2011	< 1	< 5	< 1	< 5	< 1	< .2	.112	.095	< .402	< 3.67	<163	C11116009003
10/19/2011	< 1	< 5	< 1	< 1	< 1	< .2	.235	.208	< 1.9	6.89	< 2.99	C11292015004

Water Quality Records for

MW344

				c Laboratory vsis Results			rganic Labo Analysis Res	•		logical Labor nalysis Resul		
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA µg/L	trans-1,2-DCE μg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
5/20/1998	< 1	< 5	< 5	< 5	< 5	5.43	11.2	.663	< 4	24	< -2.8	C981400089
8/11/1998	< 1	< 5	< 5	< 5	< 5	7.65	13.1	.946	< 3.2	11	< -1.3	C982240042
11/16/1998	< 1	< 5	< 5	< 5	< 5	2.65	12.2	.83	< 5.66	8.45	< 6.8	C983200078
11/16/1998	< 1	< 5	< 5	< 5	< 5	2.43	9.51	.65	< 2.27	9.59	< -3.1	C983200079
1/25/1999	< 1	< 5	< 5	< 5	< 5	8.54	13	.79	< .1	14.19	< 8.4	C990250157
4/19/1999	< 1	< 5	< 5	< 5	< 5	9.26	16.1	.827	< 4.05	8.24	< -9.06	C991090063
7/15/1999	< 1	< 5	< 5	< 5	< 5	3.21	13.6	.756	< 3.29	< 3.03	< 7.03	C991960149
10/14/1999	< 1	< 5	< 5	< 5	< 5	8.76	13.1	.871	5.38	< 5.75	< 7.28	C992870108
1/13/2000	< 1	< 5	< 5	< 5	< 5	1.35	9.06	.565	< .74	12.89	< 6.94	C000130121
4/27/2000	< 1	< 5	< 5	< 5	< 5	3.68	10.8	.523	< 2.81	19.31	< -2.65	C001190013
7/27/2000	< 1	< 5	< 5	< 5	< 5	1.92	8.16	.531	7.68	12.31	< 10.4	C002090102
7/27/2000	< 1	< 5	< 5	< 5	< 5	1.27	6.22	.404	< 4.3	14.19	< -6.62	C002090103
10/16/2000	< 1	< 5	< 5	< 5	< 5	1.5	5.4	.37	<9	21.88	< 1.57	C002910048
10/16/2000	< 1	< 5	< 5	< 5	< 5	1.92	6.81	.525	< 1.79	15.94	< .674	C002910047
1/10/2001	< 1	< 5	< 5	< 5	< 5	4.4	6.02	.396	< .529	< 1.5	< 4.46	C010100099
4/16/2001	< 1	< 5	< 5	< 5	< 5	2.3	7.02	.411	< 1.98	6.24	< -7.79	C011060089
7/19/2001	< 1	< 5	< 5	< 5	< 5	1.83	5.1	.355	< -2.34	< 1.95	< 7.79	C012010060
7/24/2001	46	100	59	< 50	< 50	15.8	315	27.7	< 32.1	< 25.1	< 12.4	C012060009
10/15/2001	< 1	< 5	< 5	< 5	< 5	.655	3.55	.399	< 4.6	< 2.4	< -2	C012880066
10/15/2001	< 1	< 5	< 5	< 5	< 5	.797	3.79	.329	< .901	9.99	< -8.48	C012880067
1/22/2002	< 1	< 5	< 5	< 5	< 5	1.37	5.33	.366	< 5.38	6.15	< 6.69	C020220045
4/10/2002	< 1	< 5	< 5	< 5	< 5	1.63	7.58	.378	<899	< 2.73	< 4.04	C021010052
7/24/2002	< 1	< 5	< 5	< 5	< 5	2.07	5.44	.49	10.2	< 6.95	< 4.82	C022060007
10/3/2002	< 1	< 5	< 5	< 5	< 5	.00423	.00456	.323	< 5.83	< 5.09	18.5	C022760030
10/3/2002	< 1	< 5	< 5	< 5	< 5	.00323	.00478	.366	< 2.54	< 2.37	< 13.8	C022760031
1/30/2003	< 1	< 5	< 5	< 5	< 5	1.68	4.16	.378	< -2.18	< .631	< 2	C030310019
4/14/2003	< 1	< 5	< 5	< 5	< 5	3.92	3.28	.268	< .0183	< 8.74	20.4	C031040078
7/30/2003	< 1	< 5	< 5	< 5	< 5	21.9	35.4	6.18	< 12.1	< 6.22	< 12.3	C032110048
10/21/2003	< 1	< 5	< 5	< 5	< 5	3.63	34.8	3.99	< 3.45	< 3.49	< -1.39	C032950015
10/21/2003	< 1	< 5	< 5	< 5	< 5	4.19	32.6	.388	< 5.8	< 4.3	< 3.31	C032950014
1/26/2004	< 1	< 5	< 5	< 5	< 5	4.22	18.2	2.32	10.1	7.74	< 5.32	C040260082
4/21/2004	< 1	< 5	< 5	< 5	< 5	2.91	13.3	1.23	< 2.26	< 1.95	< -4.04	C041130037

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LATA Environmental Services of Kentucky, LLC 761 Veterans Avenue, PO Box 280 Kevil, KY 42053

Water Quality Records for

MW344

				ic Laboratory lysis Results			rganic Labo Analysis Res	•		logical Laboi nalysis Resul		
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE μg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
7/15/2004	4 < 1	< 5	< 5	< 5	< 5	< .2	12.9	1.61	< .82	< 2.89	< -8.52	C041970170
10/19/2004	4 < 1	< 5	< 5	< 5	< 5	2.99	11.8	1.63	< -2.19	< .172	< 4.34	C042940035
10/19/2004	4 < 1	< 5	< 5	< 5	< 5	2.51	13.2	1.56	<79	9.99	< -3.88	C042940034
4/27/2005	5 < 1	< 5	< 5	< 5	< 5	3.67	7.9	.692	< .794	5.87	< 10.7	C051170053
10/25/2005	5 < 1	< 5	< 5	< 5	< 5	1.49	5.25	.714	< 2.1	< 5.13	< 8.07	C052990010
4/11/2006	5 < 1	< 5	< 5	< 5	< 5	2.55	6.79	.419	< 2.13	< 5.53	< .686	C061020012
10/26/2006	5 < 1	< 5	< 5	< 5	< 5	4.32	5.55	.472	< 2.45	< 5.05	< 13.9	C062990104
4/12/2007	7 < 1	< 5	< 5	< 5	< 5	13.5	7.9	.279	< 6.28	< 4.88	< -3.22	C071030003
4/12/2007	7 < 1	< 5	< 5	< 5	< 5	7.87	6.28	.286	8.77	< 7.36	< 7.1	C071030004
10/25/2007	7 < 1	< 1	< 1	< 1	< 1	5.46	4.1	.217	< 2.24	< 2.43	< 1.88	C072980185
4/28/2008	3 < 1	< 1	< 1	< 5	< 1		.947	.183	< 1.35	< 4.02	< 2.67	C081200002
10/29/2008	3 < 1	< 1	< 1	< 5	< 1	3.36	3.64	.256	< 2.88	< 4.82	< .645	C08304013005
4/30/2009	9 < 1	< 1	< 1	< 1	< 1	4	3.56	.19	< 2.62	5.57	< 10.1	C09120016002
10/19/2009	9 1.3	< 1	< 1	< 1	< 1	3.55	3.04	.299	< 1.6	< 4.25	<283	C09292035005
4/20/2010) < 1	< 5	< 1	< 5	< 1	11.5	22	.262	9.17	8.43	< 10	C10110009003
10/13/2010	0 < 1	< 5	< 1	< 5	< 1	9.93	13.8	.233	8.01	9.96	< -7.65	C10286021001
4/26/2011	1 < 1	< 5	< 1	< 5	< 1	4.7	8.17	.154	<331	< 5.11	< -7.02	C11116009004
4/26/2011	1 < 1	< 5	< 1	< 5	< 1	4.48	7.89	.155	< .101	5.63	< -3.92	C11116009005
10/19/2011	1 < 1	< 5	< 1	< 1	< 1	2.86	7.14	.188	< 2.34	9.7	< 2.78	C11292015005

APPENDIX D

ADMINISTRATIVE RECORD AND POST-DECISION RECORD INDICES



Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
ARFBGOU	11/24/10	PPPO-02- 1075016-11	TRANSMITTAL OF THE SUBMITTAL SCHEDULE FOR THE D2 ENGINEERING EVALUATION COST ANALYSIS FOR THE C-747 BURIAL YARD AND C-748-B BURIAL AREA (SWMU 4) AT PGDP, PADUCAH, KY (DOE/LX/07-0335&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00042
ARFBGOU	08/30/11		RECORD OF CONVERSATION-BGOU FS D2/R1 DOCUMENT NUMBER AND REDLINE RESOLUTION (DOE/LX/07-0130&D2)	LATA	LATA	No	ENV 1.A-00007
ARFBGOU	09/05/11	DOE/LX/07- 1259&D1	EPA COMMENTS ON THE SITE EVALUATION REPORT FOR SWMU 13 BURIAL GROUNDS OPERABLE UNIT AT THE PADUCAH GASEOUS DIFFUSION PLANT (PGDP) (DOE/LX/07-1259&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00008
ARFBGOU	09/25/11	PPPO-02- 1299878-11	NOTIFICATION OF EXTENSION OF INFORMAL DISPUTE RESOLUTION PERIOD FOR THE NONCONCURRENCE WITH THE FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-0130&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00009
ARFBGOU	09/26/11	KY-11-0172	INITIATION OF FORMAL DISPUTE: FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-0130&D2)	USEPA-4	DOE-PPPO	No	ENV 1.A-00022
ARFBGOU	10/05/11	PPPO-02- 1276050-12	C-746-P AND C-746-P1 SCRAP YARDS SWMU 13 ASSESSMENT REPORT AND SITE EVALUATION REPORT FOR SWMU 13, BURIAL GROUNDS OPERABLE UNIT, PGDP, PADUCAH, KENTUCKY (DOE/LX/07-1259&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00006
ARFBGOU	10/25/11	12-0185	FORMAL DISPUTE DECISION: FEASIBILITY STUDY FOR BURIAL GROUND OPERABLE UNIT AT PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH KENTUCKY	USEPA-4	DOE-PPPO	No	ENV 1.A-00023
ARFBGOU	10/28/11	PPPO-02- 1299013-12B	TRANSMITTAL OF THE ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT PGDP, PADUCAH, KY, SWMU 4 SAMPLING AND ANALYSIS PLAN (DOE/OR/07-2179&D2/A2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00037
ARFBGOU	11/04/11	PPPO-02- 1175374-12A	ELEVATION TO THE SENIOR EXECUTIVE COMMITTEE OF THE USEPA 4 AND KDWM JOINT DECISION ON THE FORMAL DISPUTE ON THE FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT AT PGDP, PADUCAH, KY (DOE/LX/07-0130&D2)		USEPA-4,KDEP	No	ENV 1.A-00036
ARFBGOU	11/08/11	PPPO-02- 1175374-11B	REQUEST FOR CONFERENCE CALL OF THE SENIOR EXECUTIVE COMMITTEE TO DISCUSS THE FORMAL DISPUTE ON THE FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-0130&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00043
ARFCC	09/14/11	PPPO-02- 1246584-11	APPENDIX C OF THE WASTE DISPOSAL ALTERNATIVES EVALUATION REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-0099&D2/R1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00038
ARFCC	09/21/11	KY-11-0169	APPROVAL OF APPENDIX C OF THE WORK PLAN FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION REMEDIAL INVESTIGATION/FEASIBILITY STUDY (DOE/LX/07-0099&D2/R1)	KDEP	DOE-PPPO	No	ENV 1.A-00039

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Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
ARFCC	09/27/11	KY-11-0173	APPENDIX C OF THE WASTE DISPOSAL ALTERNATIVES EVALUATION REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-0099&D2/R1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00040
ARFGW4	04/19/11	KY-11-0096	APPROVAL OF DOES MILESTONE MODIFICATION REQUEST FOR THE D1 GROUNDWATER OPERABLE UNIT DISSOLVED-PHASE PLUMES REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN	KDEP	DOE-PPPO	No	ENV 1.A-00034
ARFGW4	05/15/11	PPPO-02- 1196393-11A	MILESTONE MODIFICATION FOR THE GROUNDWATER OPERABLE UNIT DISSOLVED-PHASE PLUMES D1 REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00035
ARFREF	04/29/11	PPPO-02- 1191177-11	U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST HALF OF FISCAL YEAR 2011, PADUCAH, KENTUCKY (DOE/LX/07-0366/V1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00018
ARFREF	09/21/11	KY-11-0168	REVISED COMMUNITY RELATIONS PLAN FOR THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/OR/07- 2099&D2/R6)	USEPA-4	DOE-PPPO	No	ENV 1.A-00019
ARFREF	10/12/11	KY-12-0180	REVISED COMMUNITY RELATIONS PLAN FOR THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/OR/07- 2099&D2/R7)	USEPA-4	KNERR R.	No	ENV 1.A-00020
ARFREF	10/14/11	PPPO-02- 1311671-12	FEDERAL FACILITY AGREEMENT BUDGET NOTIFICATION- CONTINUING RESOLUTION	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00021
ARFREF	12/01/11	KY-12-0195	[KDEP] DESIGNATION OF PROJECT MANAGER-FEDERAL FACILITIES AGREEMENT	KDEP	DOE- PPPO,USEPA-4	No	ENV 1.A-00044
ARFREF	12/08/11	KY-12-0196	[KDEP] COMMENTS TO THE 2012 SITE MANAGEMENT PLAN (DOE/LX/07-1264&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00045
ARFREF	12/14/11	DOE/LX/07- 1264&D1	EPA COMMENTS, FY 2012 SITE MANAGEMENT PLAN FOR THE PADUCAH GASEOUS DIFFUSION PLANT, DOE/LX/07-0348&D1	USEPA-4	DOE-PPPO	No	ENV 1.A-00047
ARFS0U	11/12/10	PPPO-02- 1060076-11	STATUS OF TRANSMITTAL OF THE SITEWIDE EVALUATION WORK PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00016
ARFS0U	09/07/11	PPPO-02- 1283214-11	MILESTONE MODIFICATION REQUEST FOR THE SOILS OPERABLE UNIT SITEWIDE WALKOVER D1 SITE EVALUATION REPORT (DOE/LX/07-1256&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00010
ARFS0U	09/13/11	KY-11-0162	[KDEP] APPROVAL OF THE MILESTONE MODIFICATION REQUEST FOR THE SOILS OPERABLE UNIT SITEWIDE WALKOVER SITE EVALUATION REPORT (DOE/LX/07-1256&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00011
ARFS0U	09/16/11	PPPO-02- 1298103-11	MILESTONE MODIFICATION REQUEST FOR THE SITEWIDE EVALUATION REPORT FOR THE SOILS OPERABLE UNIT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00012
ARFS0U	09/21/11	PPPO-02- 1296352-11B	TRANSMITTAL OF THE RESPONSE TO COMPARISON OF IN SITU SOIL FLUSHING AND SOURCE TREATMENT USING MULTIPHASE EXTRACTION (SOIL FLUSHING) AND IN SITU SOURCE TREATMENT USING ENHANCED IN SITU BIOREMEDIATION	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00003

Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
ARFS0U	10/03/11	KY-11-0174	[KDEP] APPROVAL OF THE MILESTONE MODIFICATION REQUEST FOR THE SOILS OPERABLE UNIT SITEWIDE WALKOVER SITE EVALUATION REPORT (DOE/LX/07-1256&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00013
ARFS0U	10/10/11	KY-12-0177	[KDEP] APPROVAL OF THE REVISED SOLID WASTE MANAGEMENT UNIT ASSESSMENT REPORT FOR SWMU 13 AND SITE EVALUATION REPORT FOR SWMU 13, BURIAL GROUNDS OPERABLE UNIT (1259&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00041
ARFS0U	10/14/11	KY-12-0182A	[USEPA-4] APPROVAL OF THE MILESTONE MODIFICATION REQUEST FOR THE SOILS OPERABLE UNIT SITEWIDE WALKOVER SITE EVALUATION REPORT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1256&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00014
ARFS0U	10/14/11	KY-12-0182B	[USEPA-4] APPROVAL OF THE MILESTONE MODIFICATION REQUEST FOR THE SOILS OPERABLE UNIT SITEWIDE WALKOVER SITE EVALUATION REPORT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1256&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00015
ARFSWOUOSD	04/03/11	PPPO-02- 1074146-11	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)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00030
ARFSWOUOSD	10/10/11	KY-12-0179	COMMENTS TO THE WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY (DOE/LX/07-0361&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00028
ARFSWOUOSD	10/13/11	KY-12-0181	COMMENTS ON THE WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-0361&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00029
ARFSWOUOSD	12/09/11	PPPO-02- 1346098-12	NOTIFICATION OF SCHEDULE EXTENSION FOR THE D2 WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-0361&D2)	DOE-PPPO	KDEP,USEPA-4	No	ENV 1.A-00046
ARFSWP	11/24/10	PPPO-02- 1060119-11	SCHEDULE EXTENSION FOR SUBMITTAL OF THE D2/R1 PROPOSED PLAN FOR TRICHLOROETHENE SOURCES TO THE SOUTHWEST PLUME AT PGDP, PADUCAH, KY (1) SWMU 1, (2) C-720 BUILDING AREA, AND (3) PART OF SWMU 102; AND MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 ROD, D1 REMEDIAL DESIGN WORK PLAN, D1 REMEDIAL DESIGN REPORT, D1 REMEDIAL ACTION WORK PLAN, D1 REMEDIAL ACTION COMPLETION REPORT	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00017
ARFSWP	09/22/11	PPPO-02- 1296352-11A	TRANSMITTAL OF REVISED PROPOSED PLAN FOR SWMUs 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP (DOE/LX/07 0363&D2/R2)		USEPA-4,KDEP	No	ENV 1.A-00032

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Document Status	Date On	Document Id	Title	Author	To Affiliation	Protected	Object Name
	Document			Affiliation		Information	
ARFSWP	09/22/11	MEM-11-0031	RECORD OF CONVERSATION-TRANSMITTAL OF REVISED PROPOSED PLAN FOR SWMUs 1, 211A, AND 211B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0363&D2/R2)	USEPA-4	DOE-PPPO	No	ENV 1.A-00004
ARFSWP	09/25/11	KY-11-0170	[USEPA-4] APPROVAL OF THE REVISED PROPOSED PLAN FOR SWMUs 1, 211A AND 211B, VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-0363&D2/R2)	USEPA-4	USEPA-4	No	ENV 1.A-00005
ARFSWP	09/26/11	DOE/LX/07- 0363&D2/R2	APPROVAL OF REVISED PROPOSED PLAN FOR SWMUs 1, 211A, 211B AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0363&D2/R2)	KDEP	DOE-PPPO	No	ENV 1.A-00002
ARFSWP	10/25/11	KY-12-0186	COMMENTS TO THE RECORD OF DECISION FOR SWMUs 1, 211A, 211B AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0365&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00033

Paducah Documents Added to the Post-Decision Files- Fourth Quarter CY2011

Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
6PHASE-PD	04/24/11	KY-11-0102	APRIL 21, 2011 FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION REQUEST FOR THE D1 C-400 REMEDIAL ACTION COMPLETION REPORT	KDEP	DOE-PPPO	No	ENV 1.A-00031
6PHASE-PD	09/19/11	KY-11-0164	EPA CONCURRENCE THAT IMPLEMENTATION OF THE PHASE 1 REMEDIAL ACTION FOR THE C-400 INTERIM REMEDIAL ACTION (IRA) MET THE REMEDIAL ACTION OBJECTIVE	USEPA-4	DOE-PPPO	No	ENV 1.A-00024
6PHASE-PD	09/21/11	KY-11-0167	RESPONSE TO DOES SUBMITTAL OF THE TECHNICAL PERFORMANCE EVALUATION FOR PHASE I OF THE C-400 INTERIM REMEDIAL ACTION (DOE/LX/07-1260&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00025
6PHASE-PD	10/29/10	PPPO-02- 103406811	REMEDIAL GOALS MET IN THE EAST AND SOUTHWEST TREATMENT AREAS FOR PHASE I OF THE C-400 INTERIM REMEDIAL ACTION	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00026
6PHASE-PD	08/23/11	PPPO-02-1222665- 11B	TRANSMITTAL OF THE TECHNICAL PERFORMANCE EVALUATION FOR THE C-400 INTERIM REMEDIAL ACTION AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07- 1260&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00027

Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
ARF4-1	03/01/12	PPPO-02- 1359384-12	RETRACTION OF THE D1 REMOVAL NOTIFICATION FOR A REMOVAL ACTION AT THE C-747 CONTAMINATED BURIAL YARD AND C-748-B BURIAL AREA (SWMU 4) AT PGDP, PADUCAH, KY	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00109
ARF4-1	03/02/12	KY-12-0238	ACKNOWLEDGEMENT OF THE RETRACTION OF THE D1 REMOVAL NOTIFICATION FOR A REMOVAL ACTION AT THE C-747 CONTAMINATED BURIAL YARD AND C-748-B BURIAL AREA (SWMU 4) (DOE/LX/07-0334&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00110
ARFBGOU	12/09/10	PPPO-02- 1070299-11	NOTIFICATION OF EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE PROPOSED MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 PROPOSED PLAN AND SUBSEQUENT DOCUMENTS FOR THE BURIAL GROUNDS OPERABLE UNIT AT PGDP (DOE/LX/07-0347&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00096
ARFBGOU	12/13/10	PPPO-02- 1088015-11	RESOLUTION OF THE DOE NOTIFICATION OF INVOCATION OF INFORMAL DISPUTE ON THE PROPOSED MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 PROPOSED PLAN AND SUBSEQUENT DOCUMENTS FOR THE BURIAL GROUNDS OPERABLE UNIT AT PGDP (DOE/LX/07-0347&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00080
ARFBGOU	03/23/11	PPPO-02- 1169665-11	NOTIFICATION OF EXTENSION OF INFORMAL DISPUTE RESOLUTION PERIOD FOR THE NONCONCURRENCES WITH THE FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT AT PGDP (DOE/LX/07-0130&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00097
ARFBGOU	12/07/11	PPPO-02- 1345187-12	MINOR MODIFICATION TO EXTEND THE TIME PERIOD FOR CONSULTATION OF THE SENIOR EXECUTIVE COMMITTEE RELATED TO THE BURIAL GROUNDS OPERABLE UNIT FEASIBILITY STUDY	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00098
ARFBGOU	12/16/11	PPPO-02- 1356362-12B	ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT PGDP, SWMU 4 SAMPLING AND ANALYSIS PLAN (DOE/OR/07- 2179&D2/A2)-TRANSMITTAL OF THE SECTION 6 QUALITY ASSURANCE PROJECT PLAN AND EXTENSION OF ADDENDUM REVIEW PERIOD	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00059
ARFBGOU	12/21/11	KY-12-0205	APPROVAL OF THE EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE D2/A2 ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY-SWMU4 SAMPLING AND ANALYSIS PLAN (DOE/LX/07-2179&D2/A2)	KDEP	DOE-PPPO	No	ENV 1.A-00060
ARFBGOU	02/02/12	PPPO-02- 1390213-12	TRANSMITTAL OF COMMENT RESOLUTION SUMMARY ASSOCIATED WITH THE D2 FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT REMEDIAL ACTION PROJECT	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00081
ARFBGOU	02/03/12	KY-12-0226	COMMENTS ON THE ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUND OPERABLE UNIT REMEDIAL INVESTIGATION FEASIBILITY STUDY AT PGDP, PADUCAH, KY SWMU 4 SAMPLING AND ANALYSIS PLAN (DOE/LX/07-2179&D2/A2)	USEPA-4	DOE-PPPO	No	ENV 1.A-00082
ARFBGOU	02/10/12	PPPO-02- 1399777-12	TRANSMITTAL OF RESOLUTION AGREEMENT OF THE FORMAL DISPUTE FOR THE D2 FEASIBILITY STUDY FOR THE BURIAL GROUNDS OPERABLE UNIT AT PGDP	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00099

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ARFBGOU	02/24/12	KY-12-0235	COMMENTS ON THE ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT RI/FS SWMU 4 SAMPLING AND ANALYSIS PLAN (DOE/OR/07-2179&D2/A2)	KDEP	DOE-PPPO	No	ENV 1.A-00108
ARFC-340	08/05/11	PPPO-02- 1179301-11	TRANSMITTAL OF THE D1 REMOVAL ACTION REPORT FOR THE C-746-A EAST END SMELTER AT PGDP, PADUCAH, KY (DOE/LX/07-0360&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00083
ARFC-340	11/03/11	KY-12-0191	APPROVAL OF THE REMOVAL ACTION REPORT FOR THE C-746-A EAST END SMELTER (DOE/LX/07-0360&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00070
ARFC-340	11/22/11	PPPO-02- 1303603-11	TRANSMITTAL OF THE ACTION MEMORANDUM ADDENDUM FOR THE C-340 METALS REDUCTION PLANT COMPLEX AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX-07-0290&D2/A1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00054
ARFC-340	12/15/11	KY-12-0199	PROPOSED ACTION MEMORANDUM ADDENDUM FOR THE C-340 METALS REDUCTION COMPLEX AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-0290&D2/A1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00055
ARFC-340	12/21/11	KY-12-0207	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE ACTION MEMORANDUM ADDENDUM FOR THE C-340 METALS REDUCTION PLANT COMPLEX (DOE/LX/07-0290&D2/A1)	KDEP	DOE-PPPO	No	ENV 1.A-00056
ARFC-340	01/06/12	KY-12-0212	ACTION MEMORANDUM ADDENDUM FOR THE C-340 METALS REDUCTION COMPLEX AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-0290&D2 A1)	KDEP	DOE-PPPO	No	ENV 1.A-00071
ARFC-340	01/26/12	KY-12-0220	ACTION MEMORANDUM ADDENDUM FOR THE C-340 METALS REDUCTION PLANT COMPLEX (DOE/LX/07-0290&D2/A1)	KDEP	DOE-PPPO	No	ENV 1.A-00084
ARFC-340	02/09/12	KY-12-0229	EXTENDED REVIEW OF THE ACTION MEMORANDUM ADDENDUM FOR THE C-340 METALS REDUCTION PLANT COMPLEX AT PGDP, PADUCAH, KY (DOE/LX/07-0290&D2/A1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00085
ARFCC	10/20/11	PPPO-02- 1309274-12	TRANSMITTAL OF THE CONFORMED WORK PLAN FOR COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT WASTE DISPOSAL ALTERNATIVES EVALUATION REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT PGDP, PADUCAH, KY (DOE/LX/07-0099&D2/R1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00072
ARFESA	02/27/12	MEM-12-0042	RECORD OF CONVERSATION-SOUTHWEST PLUME MILESTONE MODIFICATIONS (POST-ROD DOCUMENTS)	LATA		No	ENV 1.A-00129
ARFGW4	03/28/11	PPPO-02- 1178893-11	MILESTONE MODIFICATION FOR THE GROUNDWATER OPERABLE UNIT DISSOLVED PHASE PLUMES D1 REMEDIAL INVESTIGATION FEASIBILITY STUDY WORK PLAN AND C-400 D1 REMEDIAL ACTION COMPLETION REPORT	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00089
ARFREF	10/29/10	PPPO-02- 1044113-11B	U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE SECOND HALF OF FISCAL YEAR 2010, PADUCAH, KENTUCKY	DOE-PPPO	USEPA- 4,KDEP,KDEP	No	ENV 1.A-00101
ARFREF	03/14/11	KY-11-0081	APPROVAL OF THE METHODS FOR CONDUCTING RISK ASSESSMENTS AND RISK EVALUATIONS AT PGDP (VOLUME 1: HUMAN HEALTH) (DOE/LX/07-0107&D2/R1/V1)(VOLUME 2: ECOLOGICAL) (DOE/LX/07-0107&D2/V2)	KDEP	DOE-PPPO	No	ENV 1.A-00086

Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
ARFREF	10/27/11	PPPO-02- 1311982-12B	SEMIANNUAL PROGRESS REPORT FOR THE SECOND HALF OF FISCAL YEAR 2011 PADUCAH, KY (DOE/LX/07-0366/V2)	DOE-PPPO	USEPA- 4,KDEP,KDEP	No	ENV 1.A-00087
ARFREF	11/14/11	PPPO-02- 1311546-12	TRANSMITTAL OF THE D1 FISCAL YEAR 2012 SITE MANAGEMENT PLAN, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, AND PROPOSED FEDERAL FACILITY AGREEMENT MODIFICATION	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00112
ARFREF	12/16/11	PPPO-02- 1355246-12A	NOTIFICATION OF SCHEDULE EXTENSION FOR SUBMITTAL OF THE D2 FISCAL YEAR 2012 SITE MANAGEMENT PLAN, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1264&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00051
ARFREF	12/21/11	KY-12-0204	NOTIFICATION OF SCHEDULE EXTENSION FOR SUBMITTAL OF THE D2 2012 SITE MANAGEMENT PLAN (DOE/LX/07-1264&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00052
ARFREF	02/01/12	KY-12-0224	APPROVAL OF THE EXTENSION REQUEST FOR SUBMITTAL OF THE D2 FISCAL YEAR 2012 SITE MANAGEMENT PLAN (DOE/LX/07-1264&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00061
ARFREF	02/15/12	PPPO-02- 1395589-12	PADUCAH FEDERAL FACILITY AGREEMENT INTEGRATED PRIORITY LIST AND ASSESSMENT OF BUDGET TARGETS ON SITE PRIORITIES	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00102
ARFREF	02/23/12	PPPO-02- 1411162-12	PADUCAH FEDERAL FACILITY AGREEMENT-FISCAL YEAR 2013 PRESIDENT'S BUDGET	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00103
ARFREF	02/23/12	PPPO-02- 1411350-12	FISCAL YEAR 2012 FUNDING ALLOCATION EVALUATION	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00104
ARFS0U	12/30/10	PPPO-02- 1097398-11	NOTIFICATION OF INVOCATION OF INFORMAL DISPUTE RESOLUTION OF THE MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 REMEDIAL INVESTIGATION REPORT AND SUBSEQUENT DOCUMENTS FOR THE SOILS OPERABLE UNIT AT PGDP	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00093
ARFS0U	05/23/11	PPPO-02- 1166929-11B	TRANSMITTAL OF THE SITEWIDE EVALUATION WORK PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-0228&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00057
ARFS0U	12/12/11	KY-12-0197	COMMENTS ON THE SOILS OPERABLE UNIT REMEDIAL INVESTIGATION REPORT AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-358&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00062
ARFS0U	12/19/11	KY-12-0202	SOILS OPERABLE UNIT REMEDIAL INVESTIGATION REPORT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-0358&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00053
ARFS0U	01/17/12	KY-12-0216	SOILS OPERABLE UNIT REMEDIAL INVESTIGATION REPORT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-0358&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00058
ARFS0U	02/06/12	KY-12-0227	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 SOILS OPERABLE UNIT SITEWIDE WALKOVER SITE EVALUATION REPORT (DOE/LX/07-1256&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00094
ARFS0U	02/17/12	PPPO-02- 1375360-12	MILESTONE MODIFICATION REQUEST FOR THE SOILS OPERABLE UNIT REMEDIAL ACTION PROJECT	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00095

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Document Status	Date On Document	Document Id	Title	Author Affiliation	To Affiliation	Protected Information	Object Name
ARFS0U	02/22/12	KY-12-0233	APPROVAL OF THE FFA MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D2 SOILS OPERABLE UNIT REMEDIAL INVESTIGATION REPORT (DOE/LX/07-0358&D2) AND SUBSEQUENT DOCUMENTS	KDEP	DOE-PPPO	No	ENV 1.A-00106
ARFS0U	02/27/12	MEM-12-0041	SOILS OU SITEWIDE WALKOVER MILESTONE MODIFICATION (RECORD OF CONVERSATION)	LATA		No	ENV 1.A-00116
ARFS0U	02/27/12	MEM-12-0039	SOILS OU-MILESTONE MODIFICATION APPROVAL (RECORD OF CONVERSATION)	LATA		No	ENV 1.A-00115
ARFS0U	03/12/12	PPPO-02- 1415890-12	NOTIFICATION OF SCHEDULE EXTENSION AND MILESTONE MODIFICATION FOR THE SOILS OPERABLE UNIT REMEDIAL INVESTIGATION REPORT AT PGDP, PADUCAH, KY (DOE/LX/07-0358&D2) AND SUBSEQUENT SOILS OPERABLE UNIT DOCUMENTS	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00117
ARFSWOUOSD	12/10/10	PPPO-02- 1057481-11C	EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE WASTE DISPOSAL ALTERNATIVES EVALUATION RI/FS WORK PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-0099&D2/R1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00063
ARFSWOUOSD	07/11/11	PPPO-02- 1212927-11B	TRANSMITTAL OF THE WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-0361&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00064
ARFSWOUOSD	02/13/12	KY-12-0230	SUBMITTAL OF COMMENTS TO THE WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY (DOE/LX/07-0361&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00065
ARFSWOUOSD	02/14/12	KY-12-0231	CONDITIONAL APPROVAL OF THE WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-0361&D2)	USEPA-4	DOE-PPPO	No	ENV 1.A-00066
ARFSWOUOSD	02/15/12	KY-12-0232	CONDITIONAL APPROVAL OF THE WORK PLAN FOR THE SURFACE WATER OPERABLE UNIT REMEDIAL INVESTIGATION FEASIBILITY STUDY (DOE/LX/07-0361&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00100
ARFSWP	12/06/10	KY-11-0044	SCHEDULE EXTENSION FOR SUBMITTAL OF THE D2/R1 PROPOSED PLAN FOR TRICHLOROETHENE SOURCES TO THE SOUTHWEST PLUME AT PGDP, PADUCAH, KY: (1) SWMU 1, (2) C-720 BUILDING AREA, AND (3) PART OF SWMU 102; AND MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 ROD, D1 RDWP, D1 RDR, D1 RAWP, D1 RACR	KDEP	DOE-PPPO	No	ENV 1.A-00073
ARFSWP	05/12/11	PPPO-02- 1167406-11B	TRANSMITTAL OF THE REVISED FOCUSED FEASIBILITY STUDY FOR SWMUS 1, 211A, 211B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-0362&D2)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00113
ARFSWP	08/12/11	PPPO-02- 1262035-11	TRANSMITTAL OF THE REVISED PROPOSED PLAN FOR SWMUs 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-0363&D2/R1), PRIMARY DOCUMENT	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00074

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ARFSWP	10/02/11	PUBLIC NOTICE- SWP PP	PUBLIC NOTICE-PROPOSED PLAN FOR THE REMEDIATION OF THE SOUTHWEST PLUME SOURCES AT THE PADUCAH GASEOUS DIFFUSION PLANT SITE	DOE-PPPO		No	ENV 1.A-00114
ARFSWP	11/21/11	KY-12-0193	EPA COMMENTS ON THE RECORD OF DECISION FOR SWMUs 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY, DOE/LX/07-0365&D1	USEPA-4	DOE-PPPO	No	ENV 1.A-00067
ARFSWP	12/15/11	PPPO-02- 1172300-12	SCHEDULE EXTENSION AND MILESTONE MODIFICATION REQUEST FOR THE D2 ROD FOR SWMUS 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP (DOE/LX/07-0365&D2) AND SUBSEQUENT SOUTHWEST PLUME DOCUMENTS	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00048
ARFSWP	12/16/11	KY-12-0200	[KDEP]COMMENTS TO THE REMEDIAL DESIGN WORK PLAN FOR SWMUs 1, 211A, 211B AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1268&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00049
ARFSWP	12/20/11	KY-12-0203	[EPA] COMMENTS ON THE REMEDIAL DESIGN WORK PLAN FOR SOLID WASTE MANAGEMENT UNITS 1, 211-A, AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP (DOE/LX/07-1268&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00050
ARFSWP	12/21/11	KY-12-0206	APPROVAL OF THE FFA MILESTONE MODIFICATION REQUEST FOR THE RECORD OF DECISION FOR SWMUS 1, 211A AND 211B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0365&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00068
ARFSWP	12/23/11	PPPO-02- 1360328-12A	NOTIFICATION OF SCHEDULE EXTENSION FOR SUBMITTAL OF THE D2 REMEDIAL DESIGN WORK PLAN FOR SWMUs 1, 211-A, AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-1268&D2)	DOE-PPPO	KDEP,USEPA-4	No	ENV 1.A-00069
ARFSWP	01/25/12	PPPO-02- 1368891-12C	MILESTONE EXTENSION REQUEST FOR THE D2 ROD FOR SWMUs 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-0365&D2) AND MILESTONE MODIFICATION OF SUBSEQUENT SOUTHWEST PLUME SOURCES REMEDIAL ACTION PROJECT DOCUMENTS	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00076
ARFSWP	01/25/12	PPPO-02- 1368891-12B	SIGNED MILESTONE MODIFICATION REQUEST FOR THE SOUTHWEST PLUME SOURCES REMEDIAL ACTION PROJECT	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00075
ARFSWP	02/03/12	PPPO-02- 1368891-12D	TRANSMITTAL OF THE RECORD OF DECISION FOR SWMU 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-0365&D2)	DOE-PPPO	KDEP,USEPA-4	No	ENV 1.A-00111

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ARFSWP	02/03/12	KY-12-0228	APPROVAL OF THE FFA MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D2 ROD FOR SWMUS 1, 211A AND 211B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0365&D2) AND SUBSEQUENT DOCUMENTS	KDEP	DOE-PPPO	No	ENV 1.A-00077
ARFSWP	03/05/12	DOE/LX/07- 0365&D2	RECORD OF CONVERSATION: (EPA CONCURRENCE) SOUTHWEST PLUME ROD-REDLINE WITH LUC LANGUAGE CHANGES (REF: RECORD OF DECISION, DOE/LX/07-0365)	USEPA-4	LATA	No	ENV 1.A-00118
ARFSWP	03/05/12	KY-12-0239	CONDITIONAL CONCURRENCE OF THE RECORD OF DECISION FOR SWMUs 001, 211A, 211B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0365&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00107
ARFSWP	03/16/12	PPPO-02- 1426567-12	D2/R1 RECORD OF DECISION FOR SWMUs 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KENTUCKY (DOE/LX/07-0365&D2/R1)	DOE-PPPO	KDEP,USEPA-4	No	ENV 1.A-00121
ARFSWP	03/22/12	KY-12-0254	(EPA APPROVES)D2/R1 RECORD OF DECISION FOR SWMUs 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KENTUCKY (DOE/LX/07-0365&D2/R1)		DOE-PPPO	No	ENV 1.A-00122
ARFSWP	03/23/12	KY-12-0255	(KDEP) CONCURRENCE ON THE RECORD OF DECISION FOR SWMUS 1, 211-A, 211-B, AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-0365&D2/R1)	KDEP	DOE-PPPO	No	ENV 1.A-00123

Paducah Documents Added to the Post-Decision Files- First Quarter CY2012

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6PHASE-PD	12/02/10	PPPO-02- 1076386-11	TRANSMITTAL OF THE INDEPENDENT TECHNICAL REVIEW OF THE C-400 INTERIM REMEDIAL PROJECT PHASE 1 RESULTS, PADUCAH, KENTUCKY	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00088
6PHASE-PD	03/28/11	PPPO-02- 1178893-11	MILESTONE MODIFICATION FOR THE GROUNDWATER OPERABLE UNIT DISSOLVED PHASE PLUMES D1 REMEDIAL INVESTIGATION FEASIBILITY STUDY WORK PLAN AND C-400 D1 REMEDIAL ACTION COMPLETION REPORT		USEPA-4,KDEP	No	ENV 1.A-00089
6PHASE-PD	12/21/11	PPPO-02- 1327428-12	TRANSMITTAL OF THE REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP, PADUCAH, KY (DOE/LX/07-1263&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00090
6PHASE-PD	01/09/12	KY-12-0215	CONCURRENCE WITH DOE PROPOSAL TO SUBDIVIDE PHASE 2 OF THE INTERIM REMEDIAL ACTION FOR THE C-400 CLEANING BUILDING	USEPA-4	DOE-PPPO	No	ENV 1.A-00078
6PHASE-PD	01/18/12	KY-12-0217	REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/07-1263&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00079
6PHASE-PD	01/25/12	KY-12-0219	BIFURCATION OF PHASE II OF THE C-400 INTERIM REMEDIAL ACTION PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY	KDEP	DOE-PPPO	No	ENV 1.A-00092
6PHASE-PD	02/03/12	KY-12-0225	REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/07-1263&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00091
6PHASE-PD	02/28/12	KY-12-0236	EPA REVIEW OF THE REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP, PADUCAH, KY (DOE/LX/07-1263&D1)	USEPA-4	DOE-PPPO	No	ENV 1.A-00105
SWP-PD	11/18/11	PPPO-02- 1317109-12B	TRANSMITTAL OF REMEDIAL DESIGN WORK PLAN FOR SWMU 1, 211-A, AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KENTUCKY (DOE/LX/07-1268&D1)	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00120
SWP-PD	02/03/12	PPPO-02- 1360328-12C	TRANSMITTAL OF REMEDIAL DESIGN WORK PLAN FOR SWMUS VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-1268&D2)	DOE-PPPO	KDEP,USEPA-4	No	ENV 1.A-00130
SWP-PD	02/27/12	MEM-12-0042	RECORD OF CONVERSATION-SOUTHWEST PLUME MILESTONE MODIFICATIONS (POST-ROD DOCUMENTS)	LATA	ADMIN RECORD	No	ENV 1.A-00129
SWP-PD	03/05/12	KY-12-0240	NOTIFICATION OF REVIEW PERIOD EXTENSION FOR THE REMEDIAL DESIGN WORK PLAN FOR SWMUs 1, 211A, 211B AND PART OF 102 VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP (DOE/LX/07-1268&D2)	KDEP	DOE-PPPO	No	ENV 1.A-00124

Paducah Documents Added to the Post-Decision Files- First Quarter CY2012

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SWP-PD	03/05/12	KY-12-0241	EPA NOTIFICATION FOR EXTENSION FOR THE REMEDIAL DESIGN WORK PLAN FOR SWMUs 1, 211-A, AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP, PADUCAH, KY (DOE/LX/07-1268&D2)	USEPA-4	DOE-PPPO	No	ENV 1.A-00125
SWP-PD	03/19/12	KY-12-0247	CONDITIONAL CONCURRENCE OF THE REMEDIAL DESIGN WORK PLAN FOR SWMUs 1, 211-A, AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1268&D2) AND THE REMEDIAL DESIGN SUPPORT INVESTIGATION CHARACTERIZATION PLAN FOR THE C-747-C OIL LANDFARM AND C-720 NORTHEAST AND SOUTHEAST SITES AT PGDP, PADUCAH, KY (DOE/LX/07-0350&D1)		DOE-PPPO	No	ENV 1.A-00126
SWP-PD	03/20/12	KY-12-0248	(KDEP) CONDITIONAL CONCURRENCE TO THE REMEDIAL DESIGN WORK PLAN FOR SWMUs 1, 211-A, AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1268&D2) AND THE REMEDIAL DESIGN SUPPORT INVESTIGATION CHARACTERIZATION PLAN FOR THE C-747-C OIL LANDFARM AND C-720 NORTHEAST AND SOUTHEAST SITES AT PGDP, PADUCAH, KY (DOE/LX/07-0350&D1)	KDEP	DOE-PPPO	No	ENV 1.A-00127
SWP-PD	03/26/12	PPPO-02- 1420547-12	MILESTONE MODIFICATION FOR THE GROUNDWATER OPERABLE UNIT SOUTHWEST PLUME SOURCES DOCUMENTS	DOE-PPPO	USEPA-4,KDEP	No	ENV 1.A-00128
SWP-PD	03/27/12		MEMORANDUM TO ADMINISTRATIVE RECORD FILE-OPENING OF NEW AR FILE, SWP-PD (SOUTHWEST PLUME POST DECISION)	SST	ADMIN RECORD	No	ENV 1.A-00119



APPENDIX E C-400 PROJECT GROUNDWATER MONITORING WELLS DATA



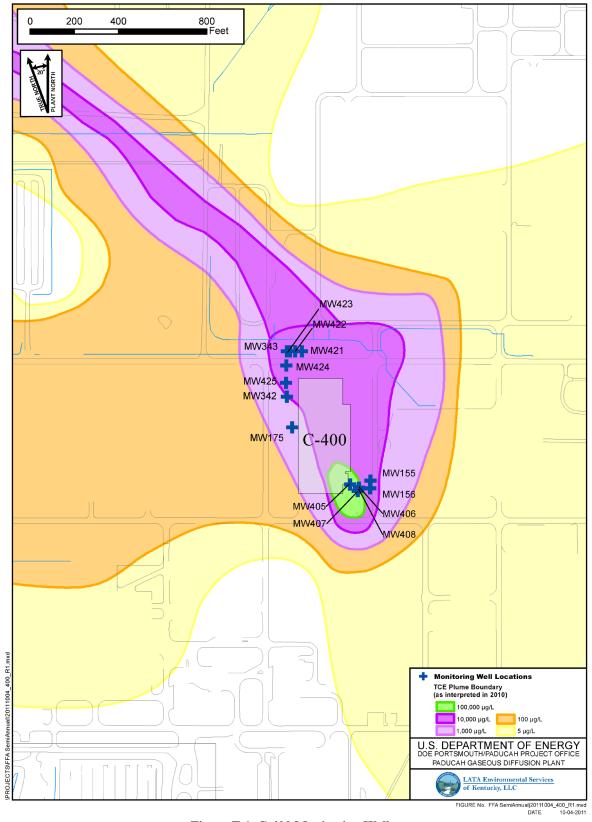


Figure E.1. C-400 Monitoring Wells

E-3



Figure E.2. C-400 TCE Trends in MWs in Source Areas

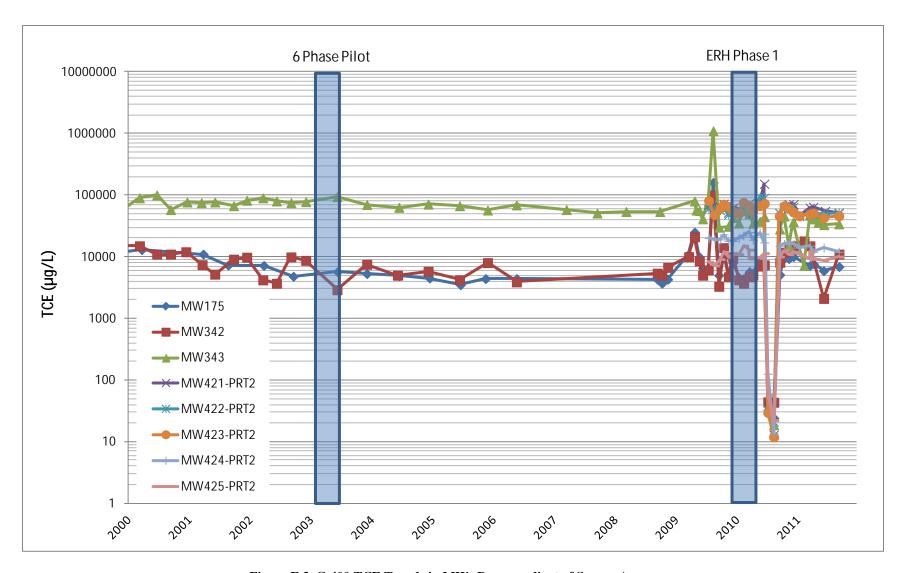


Figure E.3. C-400 TCE Trends in MWs Downgradient of Source Areas

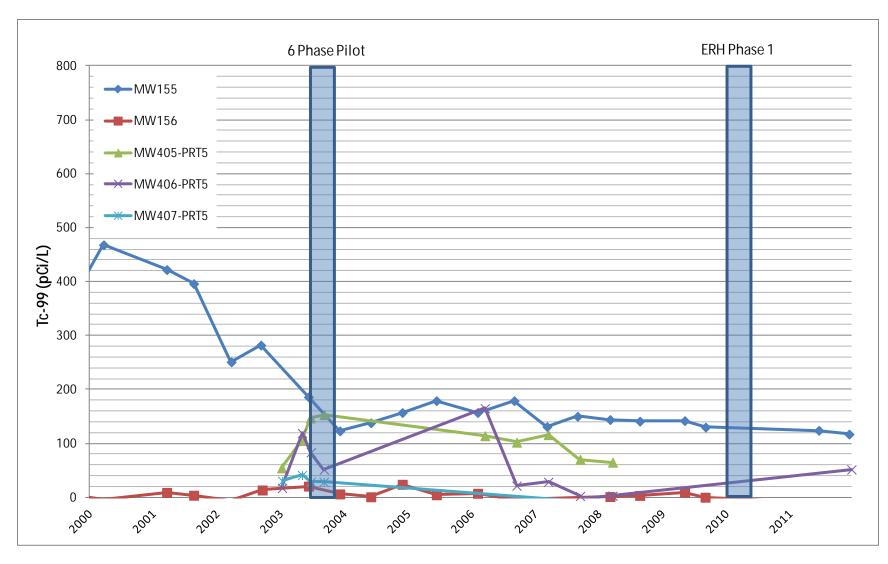


Figure E.4. C-400 Tc-99 Trends in MWs in Source Areas

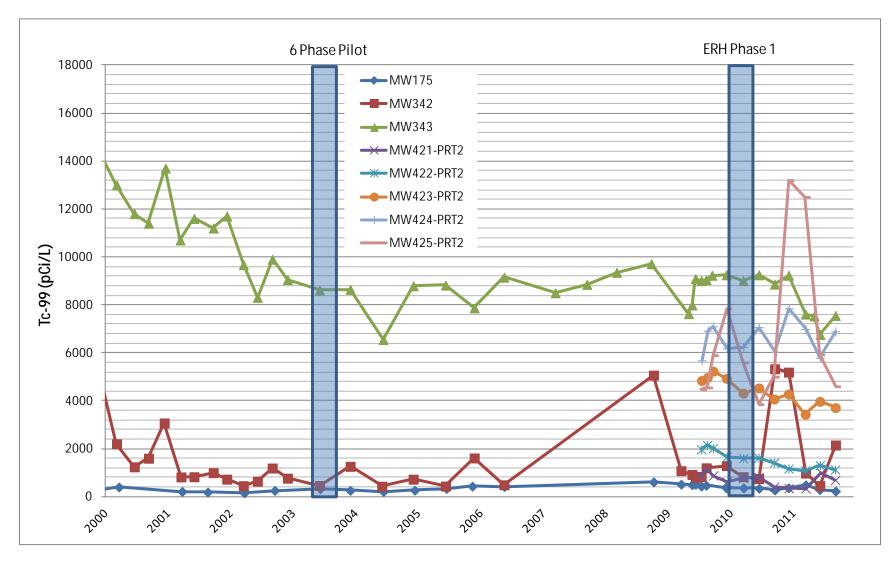


Figure E.5. C-400 Tc-99 Trends in MWs Downgradient of Source Areas

Water Quality Records for

			Organic La Analysis				ogical Lab		Metal				chlorinate Analysis l	ed bipheny Results	y l			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
9/8/2009	34000	< 2000	< 2000	< 2000	< 2000	< 3.89	4.01	< .0531	< .005									C09252004001
9/8/2009	34000	< 5000			< 5000													C09252006001
9/15/2009	36000	< 5000			< 5000													C09258030002
9/22/2009	39000	< 5000			< 5000													C09265022001
6/27/2011	83000	< 5000	< 1000	< 1000	< 1000	< 3.86	5.6	< -8.94	< .005									C11178014001
12/14/2011	65000	< 5000			< 1000	< 2.55	7.54	< -5.13	< .005									C11348018004

Water Quality Records for

			Organic La Analysis l	•			ogical Labo nalysis Resu		Metal				chlorinate Analysis I	d bipheny Results	y l			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 μg/L	PCB 1221 µg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
9/10/2009	14000	< 1000			< 1000													C09254002003
9/10/2009	14000	< 200	< 200	< 200	< 200	< 1.12	93.2	130	< .005									C09253025001
9/15/2009	14000	< 500			< 500													C09258030001
9/22/2009	13000	< 500			< 500													C09265022002
6/23/2011	3700	< 100	< 20	< 20	< 20	7.65	130	124	< .005									C11174017005
12/14/2011	2400	< 500			< 100	< 3.61	111	117	< .005									C11348018003

Water Quality Records for

			Organic La Analysis l				logical Labo nalysis Resu		Metal				chlorinat Analysis		nyl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE μg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 μg/L	Lab Sample ID
6/16/20	9 4900	< 50			< 50	11.7	447	508	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09168007001
7/20/20	9 4400	< 250			< 50	< 3.65	415	438	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09201015001
8/18/20	9 4400	< 50			< 50	9.43	416	375	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09230023001
12/14/20	9 7900	< 250			< 50	<722	363	357	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09348024001
3/24/20	0 5600	< 50			< 50	< 1.61	211	360	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10083023001
6/23/20	0 4800	< 250			< 50	< 4.95	292	343	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10174017001
6/23/20	0 5100	< 250			< 50	12.9	301	315	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10174017002
9/23/20	0 5100	< 250			< 50	7.46	226	275	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10266013001
12/13/20	0 9800	< 250			< 50	26.6	274	363	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023005
3/23/20	1 5800	< 100			< 100	24.3	366	488	< .005	< 167	< 176	< 137	< 98	< 118	< 68.6		< 88.2	C11082024002
6/13/20	1									< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-01
6/13/20	.1									< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-02
6/13/20	1 5900	< 250			< 50	9.43	190	267	< .005									C11165011003
6/13/20	1 5900	< 250			< 50	13.5	201	292	< .005									C11165011004
9/14/20	1 6900	< 250			< 50	< -1.01	218	228	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087005

Water Quality Records for

		,	Organic Lal Analysis F				ogical Labo nalysis Resu		Metal				chlorinat Analysis		nyl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 μg/L	Lab Sample ID
6/16/2009	3000	< 50			< 50	16.7	616	805	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09168006001
7/20/2009	4300	< 250			< 50	<785	510	837	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09201016001
8/18/2009	5800	< 50			< 50	16	985	1130	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09230024001
12/14/2009	9900	< 250			< 50	< .633	926	1280	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09348024003
12/14/2009	9500	< 250			< 50	< -6.46	978	1290	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09348024002
3/23/2010	4700	< 50			< 50	10.3	386	827	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025007
6/22/2010	5400	< 250			< 50	11.4	642	750	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173039001
9/23/2010	7600	< 250			< 50	< -52	3690	5330	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10266013002
9/23/2010	8100	< 250			< 50	< -57.1	3720	4720	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10266013003
12/13/2010	12000	< 200			< 200	41	4120	5000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023002
12/13/2010	12000	< 200			< 200	56	3960	5190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023003
3/23/2011	8100	< 100			< 100	26.8	835	980	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.32	< .09	C11082024001
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-01
6/14/2011	2100	< 500			< 100	28.8	457	456	< .005									C11165038001
9/14/2011	11000	< 250			< 50	< -9.47	1800	2150	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087003
9/14/2011	10000	< 250			< 50	< -4.68	1750	1930	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087004

Water Quality Records for

			Organic La Analysis l				ogical Labo nalysis Resu		Metal				chlorinat Analysis		nyl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 μg/L	Lab Sample ID
6/16/2009	41000	< 500			< 500	82.1	6710	9090	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09168007002
7/20/2009	31000	< 2500			< 500	< 4.65	6730	9010	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09201066001
8/18/2009	31000	< 400			< 400	19.7	7420	8770	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09230023002
9/21/2009	27000	< 1000	< 200	< 1000	< 200	< -119	6980	9230	< .005									C09265006005
12/14/2009	43000	< 2000			< 400	< -176	6970	9250	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09348027001
3/22/2010	37000	< 400	< 250	< 250	< 250	< -90.6	5370	8960	< .005									C10082002001
3/22/2010	37000	< 250			< 250	37.4	6850	8920	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005001
3/22/2010	37000	< 250			< 250	92.1	5660	9010	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005002
6/22/2010	32000	< 2500			< 500	22	6440	9250	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173027001
9/22/2010	28000	< 2500			< 500	< -114	6340	8860	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020004
12/13/2010	34000	< 2500			< 500	< -77.3	6970	9230	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023006
3/22/2011	39000	< 400			< 400	134	5310	7600	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.53	< .09	C11081023003
3/22/2011	47000	< 400			< 400	46.5	6570	7610	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.13	< .09	C11081023004
5/12/2011	36000	< 2500	< 500	< 500	< 500	150	5510	7530	< .005									C11132027003
6/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-02
6/15/2011	33000	< 2000			< 400	< -4.39	7110	6760	< .005									C11166026001
9/13/2011	34000	< 2000			< 400	< -144	6990	7550	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012004

Water Quality Records for

			Organic La Analysis	•			logical Lab nalysis Res		Metal			•	chlorinate Analysis l	ed bipheny Results	yl			
Sample Date	TCE μg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 μg/L	PCB 1221 µg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
6/23/2011	52000	< 2500	< 500	< 500	< 500	8.66	22.7	< 16.1	.014									C11174017004

Water Quality Records for

			Organic La Analysis	•			logical Lab nalysis Res	•	Metal				chlorinate Analysis l	ed bipheny Results	yl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 μg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
6/23/2011	6500	< 500	< 100	< 100	< 100	11.4	45.5	47.7	< .005									C11174017003

Water Quality Records for

			Organic Lal Analysis I	•			ogical Labo nalysis Resu		Metal			•	chlorinate Analysis l	ed bipheny Results	yl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 μg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 μg/L	PCB 1268 μg/L	Lab Sample ID

Water Quality Records for

MW421-PRT1

				Organic Lal Analysis I				ogical Labo nalysis Resu		Metal				chlorinat Analysis	-	yl			
Sam _j Dat		TCE μg/L	1,1- DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 μg/L	Lab Sample ID
7/21	/2009	20000	< 1000			< 200	38	1780	1650	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09202027001
8/25	5/2009	21000	< 200			< 200	<377	1300	1670	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09237029001
9/29	/2009	22000	< 200			< 200	33	878	1240	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002001
12/16	5/2009	27000	< 1000			< 200	27.7	906	1160	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09350025004
3/23	3/2010	24000	< 200			< 200	15.5	1180	1780	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082025004
6/23	3/2010	58000	< 500			< 500	18.4	1710	2340	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10172026001
9/21	/2010	34000	< 500			< 500	15.1	826	1190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016001
12/14	/2010	28000	< 2500			< 500	9.44	789	916	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10348026001
<u> </u>	3/2011	28000	< 250			< 250	< 4.35	623	859	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.06	< .09	C11082024003
6/22	2/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106092-01
6/22	2/2011	29000	< 2000			< 400	< -121	3300	3930	< .005									C11173026001
9/12	2/2011	32000	< 1000			< 200	9.06	2190	2500	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255015001

Water Quality Records for

MW421-PRT2

		(Organic Lal Analysis I				logical Labo nalysis Rest		Metal			•	chlorinat Analysis	-	yl			
Sample Date	TCE µg/L	1,1- DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 μg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 μg/L	PCB 1268 μg/L	Lab Sample ID
7/21/2009	52000	< 2500			< 500	15.2	830	856	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09202027002
8/25/2009	53000	< 500			< 500	6.73	865	1120	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237029002
9/29/2009	53000	< 500			< 500	27.9	639	882	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002002
12/16/2009	62000	< 2500			< 500	4.74	475	618	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025005
3/23/2010	55000	< 500			< 500	12.7	417	777	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025005
6/21/2010	51000	< 500			< 500	26.9	514	813	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10172026002
9/21/2010	51000	< 500			< 500	8.44	255	416	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016002
12/14/2010	62000	< 500			< 500	10.4	280	348	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10348026002
3/23/2011	62000	< 500			< 500	8.6	220	340	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.15	< .09	C11082024004
6/22/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106092-02
6/22/2011	55000	< 2500			< 500	< -24.9	853	996	< .005									C11173026002
9/12/2011	51000	< 2000			< 400	14.5	582	694	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255015002

Water Quality Records for

MW421-PRT3

			Organic Lal Analysis I	•			logical Labo nalysis Rest	•	Metal			•	chlorinat Analysis	-	nyl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/21/200	9 63000	< 2500			< 500	< 3.73	327	302	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09202027003
8/25/200	9 66000	< 500			< 500	< 3.62	398	451	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09237029003
9/29/200	9 61000	< 500			< 500	8.99	323	335	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09273002003
12/16/200	9 77000	< 2500			< 500	4.67	226	345	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025006
3/23/201	0 70000	< 500			< 500	12.8	218	376	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025006
6/21/201	0 68000	< 500			< 500	< 4.02	278	251	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173001001
9/21/201	0 64000	< 500			< 500	6.83	215	285	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016003
12/14/201	0 65000	< 500			< 500	< 5.08	209	278	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10348026003
	1 61000	< 500			< 500	19	186	278	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.34	< .09	C11082024005
∞ 6/22/201	1									< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106092-03
6/22/201	1 72000	< 2500			< 500	15.7	289	399	< .005									C11173026003
9/12/201	1 67000	< 2500			< 500	5.7	272	313	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255015003

Water Quality Records for

MW422-PRT1

			(Organic Lal Analysis I				ogical Labo nalysis Resu	•	Metal				chlorinat Analysis		nyl			
5	Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 μg/L	Lab Sample ID
	7/21/2009	10000	< 500			< 100	< -96.7	10400	13600	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09202018001
	8/24/2009	13000	< 100			< 100	95	12900	15600	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09237007001
	9/28/2009	12000	< 100			< 100	59.7	14200	16900	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09271021004
1	2/16/2009	16000	< 1000			< 200	< -15.7	10200	13900	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025001
	3/23/2010	14000	< 100			< 100	< -25.6	8460	13400	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025001
	6/21/2010	14000	< 100			< 100	< -60.6	11600	15500	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173001002
	9/20/2010	15000	< 200			< 200	< -51	8500	12900	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039004
1	2/13/2010	23000	< 1000			< 200	< -3.47	5090	6610	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024004
_	3/22/2011	20000	< 200			< 200	87.5	4860	6410	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11081023005
9	6/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-03
	6/15/2011	14000	< 1000			< 200	< -13.8	7910	9730	< .005									C11166026002
	9/12/2011	16000	< 1000			< 200	< -54.7	10600	12300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255022001

Water Quality Records for

MW422-PRT2

				Organic Lal Analysis I	•			ogical Labo nalysis Resu	•	Metal			Poly	chlorinat Analysis	-	nyl			
	ample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7.	/21/2009	43000	< 2500			< 500	32.8	1570	1970	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09202019001
8	/24/2009	47000	< 500			< 500	28.2	1650	2150	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237008001
9	/28/2009	45000	< 500			< 500	18.5	1490	2020	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09271021005
12	/16/2009	53000	< 2500			< 500	16.1	1110	1660	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025002
3.	/23/2010	51000	< 500			< 500	24	823	1600	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025002
6	/21/2010	90000	< 400			< 400	17.5	1060	1620	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173001003
9	/20/2010	51000	< 1000			< 1000	9.61	808	1420	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039005
12	/13/2010	54000	< 2500			< 500	41.2	789	1170	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024005
E-2	/22/2011	40000	< 500			< 500	27.3	823	1090	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.44	< .09	C11081023006
0	/15/2011	50000	< 2500			< 500	35.3	1000	1310	< .005									C11166026003
6	/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-04
9	/12/2011	52000	< 2000			< 400	10.6	900	1130	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255022002

Water Quality Records for

MW422-PRT3

			Organic La Analysis				logical Labo nalysis Rest		Metal			Poly	ychlorinat Analysis		nyl			
Sample Date	TC μg,		1,1-DCA	1,2-DCA μg/L	trans- 1,2-DCE μg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/21/2	009 4500	0 < 250	0		< 500	<394	1650	2310	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09202019002
8/24/2	009 4600	0 < 500			< 500	15.4	1380	1960	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237008002
9/28/2	009 4500	0 < 500			< 500	15.5	1560	1940	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09271021006
12/16/2	009 5800	0 < 250	0		< 500	20.7	1230	1630	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09350025003
3/23/2	010 5300	0 < 500			< 500	19.6	866	1490	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082025003
6/21/2	010 7200	0 < 100	0		< 1000	15.1	883	1520	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173001004
9/20/2	010 6100	0 < 100	0		< 1000	16.3	777	1320	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039006
12/13/2	010 5400	0 < 250	0		< 500	22.6	782	1070	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024006
E 3/22/2	011 5400	0 < 500			< 500	23.3	677	1010	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.36	< .09	C11081023007
6/15/2)11									< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-05
6/15/2	011 4900	0 < 250	0		< 500	13.5	864	1140	< .005									C11166026004
9/12/2	011 5300	0 < 200	0		< 400	7.69	718	910	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255022003

Water Quality Records for

MW423-PRT1

			(Organic Lal Analysis I	•			logical Labo nalysis Resu		Metal				chlorinat Analysis		nyl			
	ample Date	TCE μg/L	1,1- DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7	7/22/2009	13000	< 500			< 100	< -60	8610	10400	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09203009001
8	3/25/2009	12000	< 200			< 200	81	9720	12100	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09237022001
ç	0/28/2009	11000	< 100			< 100	87.3	11100	14000	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09271021001
12	2/15/2009	15000	< 1000			< 200	< -236	11500	14400	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09349015001
3	3/22/2010	15000	64			< 25	45.5	8550	13800	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005003
ć	5/22/2010	12000	< 500			< 100	< -79.6	10100	13400	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173027002
Ģ	0/20/2010	12000	< 200			< 200	52.9	9500	16000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039001
12	2/13/2010	18000	< 500			< 100	< -161	8180	10800	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024001
E-2	3/21/2011	15000	< 200			< 200	95.2	6870	8960	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11080075002
2	5/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-06
(5/14/2011	15000	< 500			< 100	< -273	9620	9790	< .005									C11165038005
ģ	0/13/2011	14000	< 1000			< 200	< -18.7	8820	10500	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012001

Water Quality Records for

MW423-PRT2

			(Organic Lal Analysis I	•			logical Labo nalysis Resu		Metal			Poly	chlorinat Analysis		nyl			
San Da	nple ate	TCE μg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/2	2/2009	42000	< 2500			< 500	< -8.97	3760	4840	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09203009002
8/2	5/2009	47000	< 500			< 500	34.3	3420	4880	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09237022002
9/2	8/2009	44000	< 500			< 500	35.8	3820	5230	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09271021002
12/1	5/2009	54000	< 2500			< 500	< -51.8	3650	4930	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09349015002
3/2	2/2010	52000	< 500			< 500	40.2	2260	4310	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005004
6/2	2/2010	45000	< 2500			< 500	< -2.09	3050	4530	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173027003
9/2	0/2010	46000	< 500			< 500	14.3	2590	4070	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039002
12/1	3/2010	52000	< 2500			< 500	42.7	2070	4280	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024002
E 3/2	1/2011	41000	< 500			< 500	114	1990	3430	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.15	< .09	C11080075003
6/1	4/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-07
6/1	4/2011	43000	< 2500			< 500	< -23.6	2810	3970	< .005									C11165038006
9/1	3/2011	46000	< 2000			< 400	< -37.2	2730	3710	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012002

Water Quality Records for

MW423-PRT3

			(Organic Lal Analysis I				ogical Labo nalysis Resu	•	Metal				chlorinat Analysis	-	nyl			
	ample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 μg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 μg/L	PCB 1268 μg/L	Lab Sample ID
7,	/22/2009	42000	< 2500			< 500	< -4.38	2660	4350	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09203009003
8/	25/2009	47000	< 500			< 500	23.4	2850	4440	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237022003
9/	28/2009	14000	< 500			< 500	97.8	10600	13500	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09271021003
12	15/2009	53000	< 2500			< 500	< -48.6	2970	4030	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09349015003
3,	/22/2010	51000	< 500			< 500	43.5	1960	3810	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005005
6	/22/2010	49000	< 2500			< 500	5.16	2930	3850	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173027004
9/	20/2010	50000	< 500			< 500	34.3	2080	3730	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039003
12	/13/2010	50000	< 2500			< 500	19	2120	3140	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.15	< .09	C10347024003
12	21/2011	41000	< 500			< 500	89.1	1880	2900	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.12	< .09	C11080075004
6	14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-08
6	14/2011	43000	< 2500			< 500	< -17.1	2540	3680	< .005									C11165038007
9/	13/2011	47000	< 2000			< 400	< -27.3	2490	2990	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012003

Water Quality Records for

MW424-PRT1

				Organic Lal Analysis I	•			logical Labo nalysis Resu	•	Metal			•	chlorinat Analysis	-	nyl			
	Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
	7/23/2009	7200	< 500			< 100	< -7	2300	1790	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09204021001
	8/27/2009	7100	< 50			< 50	< 3.09	2680	3330	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09239018001
	9/30/2009	7700	< 100			< 100	125	4580	6150	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09273021001
	12/17/2009	9200	< 100			< 100	< -31.9	7760	10000	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09351022002
	3/24/2010	7900	< 100			< 100	86.8	4420	6540	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10083023002
	6/23/2010	7900	< 250			< 50	14	4020	5080	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10174017003
	9/22/2010	7900	< 1000			< 200	<-79.8	7420	10300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020001
	12/15/2010	8400	< 100			< 100	< -325	9940	13900	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020001
E-2	6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-09
S	6/14/2011	7900	< 500			< 100	< -211	7890	8220	< .005									C11165038002
	9/13/2011	9000	< 500			< 100	< -150	5730	6730	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256019001

Water Quality Records for

MW424-PRT2

			Organic La Analysis l				logical Labo nalysis Rest		Metal				chlorinat Analysis		ıyl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 μg/L	Lab Sample ID
7/23/2009	9 17000	< 1000			< 200	< -29.4	4170	5680	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09204022001
8/27/200	9 16000	< 200			< 200	< -4.44	6130	5900	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09239019001
9/30/200	9 16000	< 200			< 200	91.8	5200	7100	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09273023001
12/17/2009	9 18000	< 200			< 200	7.27	4010	6180	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09351022003
3/24/2010	17000	< 250			< 250	52.8	2940	6240	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10083023003
6/22/2010	17000	< 1000			< 200	12.7	5150	7070	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10174017004
9/22/2010	15000	< 1000			< 200	< -41.8	4000	6040	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020002
12/15/2010	14000	< 200			< 200	< -161	5510	7850	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020002
2	1 12000	< 100			< 100	170	4620	6990	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.26	< .09	C11081023001
6/14/201	1									< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-10
6/14/201	1 14000	< 500			< 100	< -51.5	4820	5790	< .005									C11165038003
9/13/201	1 12000	< 500			< 100	< -138	5900	6890	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256019002

Water Quality Records for

MW424-PRT3

			Organic Lal Analysis I	•			ogical Labo nalysis Resu	•	Metal			•	chlorinat Analysis	-	nyl			
Sample Date	TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/23/2009	22000	< 1000			< 200	< -7.72	1900	2770	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09204023001
8/27/2009	23000	< 200			< 200	< 5.21	3400	4970	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09239020001
9/30/2009	23000	< 250			< 250	78.9	3350	4660	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09273024001
12/17/2009	23000	< 200			< 200	12.3	2960	4500	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09351022004
3/24/2010	23000	< 250			< 250	< -39.3	2810	4600	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10083023004
6/23/2010	21000	< 1000			< 200	10.2	3160	4740	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10174017005
9/22/2010	21000	< 1000			< 200	<-14.6	2650	4440	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020003
12/15/2010	19000	< 200			< 200	< -54.8	2840	4300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020003
3/22/2011	16000	< 200			< 200	93.3	2580	3430	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.28	< .09	C11081023002
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-11
6/14/2011	18000	< 1000			< 200	< -23	2990	3940	< .005									C11165038004
9/13/2011	16000	< 1000			< 200	< -42.4	2720	4190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256019003

Prepared by:

Water Quality Records for

MW425-PRT1

				Organic La Analysis l				logical Labo nalysis Resu		Metal			Poly	chlorinat Analysis		nyl			
Samp Dat		TCE µg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE μg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/22	/2009	5100	< 250			< 50	< 2.26	755	789	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09203011001
8/26	/2009	8200	< 100			< 100	9.62	4390	3870	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09238024001
9/29/	/2009	11000	< 100			< 100	107	6500	8580	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09273002004
12/16	/2009	13000	< 500			< 100	26.5	6360	9490	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09350025007
3/23	/2010	8900	< 100			< 100	51.4	2200	3010	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005006
6/22	/2010	8300	< 500			< 100	25	1340	1330	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173039002
9/21	/2010	12000	< 500			< 100	< -221	10000	12700	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10264016004
12/15	/2010	13000	< 200			< 200	< -819	15000	18300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020004
12	/2011	11000	< 100			< 100	81.2	10800	14000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.17	< .09	C11080075005
∞ 6/13	/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-03
6/13	/2011	7600	< 500			< 100	75.3	2130	2530	< .005									C11165011005
9/14	/2011	12000	< 500			< 100	< -143	7140	9190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087006

Water Quality Records for

MW425-PRT2

				Organic Lal Analysis I	•			logical Labo nalysis Resu		Metal				chlorinat Analysis		nyl			
	Sample Date	TCE μg/L	1,1- DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 μg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
	7/22/2009	6300	< 250			< 50	< 3.37	2930	4460	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09203011002
	8/26/2009	6100	< 50			< 50	< -19.6	3370	4550	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09238024002
	9/29/2009	7500	< 50			< 50	121	4600	5900	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002005
	12/16/2009	11000	< 500			< 100	< -17.7	5550	7850	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09350025008
	3/23/2010	9300	< 50			< 50	49.5	3710	5600	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005007
	6/22/2010	8400	< 250			< 50	43.7	2900	3850	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173039003
	9/21/2010	10000	< 500			< 100	< -37.4	4910	5000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016005
	12/15/2010	11000	< 100			< 100	< -456	9930	13200	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020005
E-2	3/21/2011	9200	< 100			< 100	28.2	8260	12500	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.36	< .09	C11080075006
9	6/13/2011	8700	< 500			< 100	< -26.5	4870	5930	< .005									C11165011006
	6/13/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-04
	9/14/2011	10000	< 500			< 100	< -98.5	4370	4600	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087007

Water Quality Records for

MW425-PRT3

				ganic Lab nalysis R	•			ogical Labo nalysis Resu		Metal			•	chlorinat Analysis	-	nyl			
Sample Date	TC µg/		CE 1,1	1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 μg/L	PCB 1232 μg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 μg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/22/20	09 6200	< 2	50			< 50	< .86	3380	4420	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09203011003
8/26/20	09 4700	< 50)			< 50	< -23.2	3770	4120	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09238024003
9/29/20	09 6900	< 5)			< 50	96.2	3490	4570	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002006
12/17/20	09 8100	< 1	00			< 100	39.3	3620	5210	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09351022001
3/23/20	10 7600	< 5)			< 50	57	2590	4290	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005008
6/22/20	10 7700	< 2	50			< 50	33.6	2790	3760	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173039004
9/21/20	10 8500	< 5	00			< 100	< -22.6	3270	5070	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10264016006
12/15/20	10 9100	< 1	00			< 100	< -325	7150	8570	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020006
5 6/13/20	11										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-05
6/13/20	11 7400	< 50	00			< 100	< -23.1	3310	4310	< .005									C11165011007
9/14/20	11 8500	< 5	00			< 100	< -99.4	4540	4360	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087008

Water Quality Records for

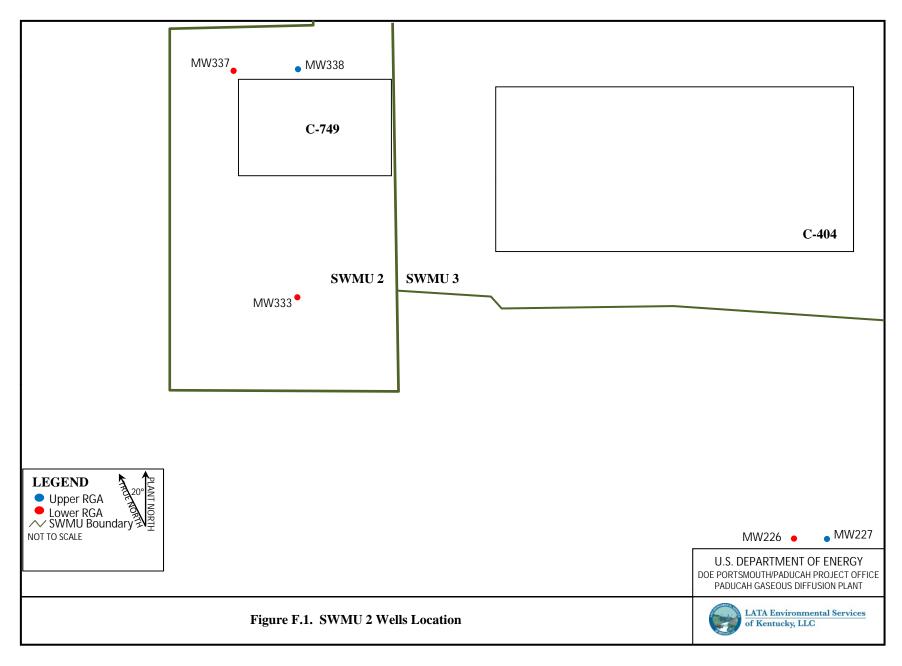
			Organic La Analysis	•			logical Lab nalysis Res	•	Metal			•	chlorinate Analysis l	ed bipheny Results	v l			
Sample Date	TCE μg/L	1,1- DCE µg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans- 1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
12/30/2009	31	< 1	< 1	< 1	< 1	<087	< 2.52	< 10.3	< .005									C09365015001
6/13/2011	14	< 5	< 1	< 1	< 1	< 7.26	< 1.75	< 4.03	< .005									C11164036005

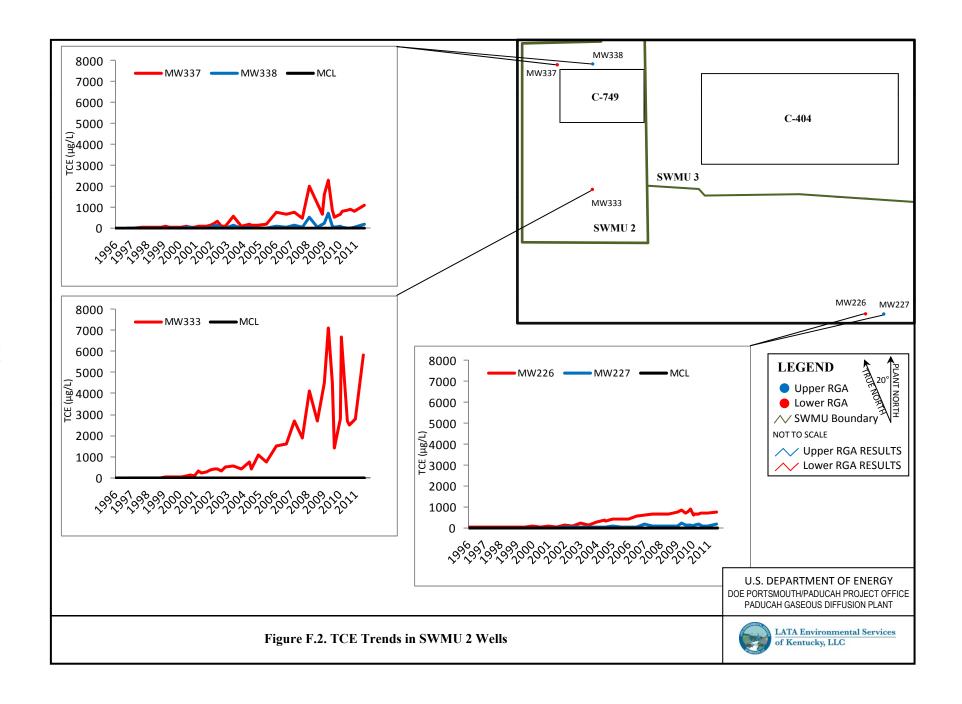


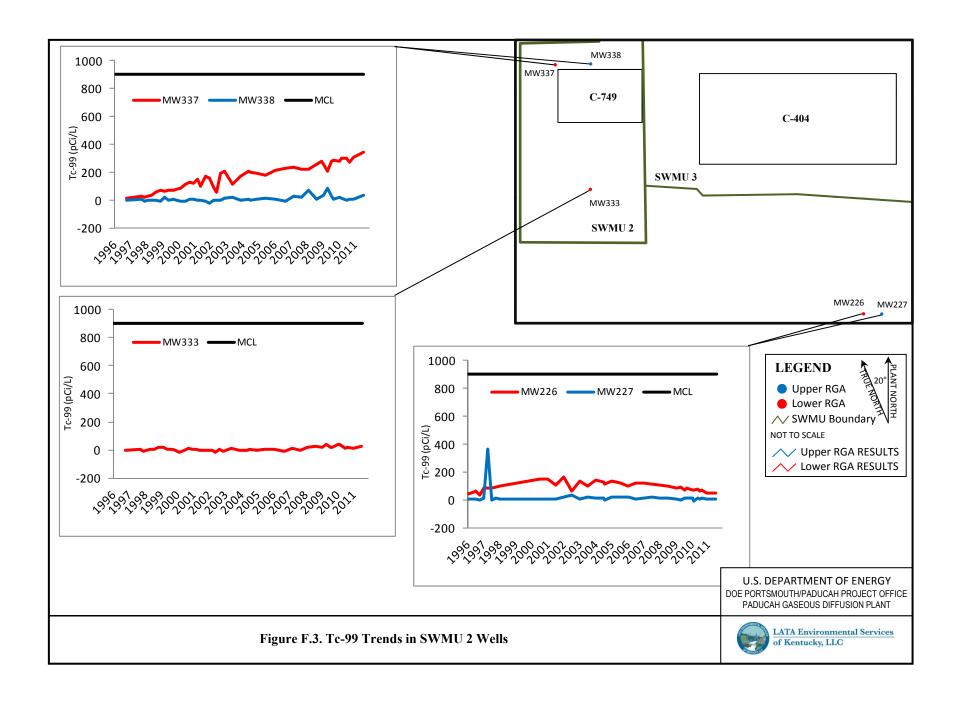
APPENDIX F

C-749 URANIUM BURIAL GROUND (SWMU 2) GROUNDWATER MONITORING WELL DATA









MW226

			Organic Labor Analysis Res	ratory			R	adiological La Analysis R	aboratory esults			
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
5/6/1993	8							11				930507-105
5/6/1993	2							6				930507-101
5/13/1993	7							12				930513-235
6/2/1993	8							10				930602-113
6/16/1993	8							8				930617-116
6/16/1993	2											930617-118
7/14/1993	9							16				930715-049
7/20/1993	10							8				930721-106
8/9/1993	11							15				930810-018
8/16/1993	11							18				930819-067
9/30/1993	11							18				930930-169
10/26/1993	12							35				931027-061
11/8/1993	11							32				931109-073
11/16/1993	11							22				931117-105
1/11/1994	11							25				940111-177
1/25/1994	12							13				940126-013
2/8/1994	10							32				940209-005
2/15/1994	12							14				940216-023
7/18/1994	12							18				940719-065
7/26/1994	14							35				940726-198
8/11/1994	15							32				940812-033
8/18/1994	15							15				940818-135
1/17/1995	17							26				950117-115
1/17/1995	17							30				950117-119
1/23/1995	17							31				950125-081

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Date pgt pgt pgt pgt pgt pgt pgt pgt pcit p			Organic Labor Analysis Res	ratory sults		R	adiological L Analysis R		
1/15/1995 16 36 950									Lab Sample ID
4/19/1995 4/24/1995 5/3/1995 5/3/1995 5/3/1995 16 7/25/1995 11 32 950 7/25/1995 8/1/1995 8/1/1995 8/1/1995 10/23/1995 10/	2/6/1995	16					28		950207-055
4/24/1995 44 950 5/3/1995 15 950 5/8/1995 49 950 5/8/1995 16 32 950 7/25/1995 11 32 950 8/14/1995 41 950 8/14/1995 43 950 10/23/1995 30 950 10/23/1995 40 951 11/8/1995 36 951 11/8/1995 36 951 11/8/1995 54 951 11/8/1995 55 951 11/8/1995 54 951 11/8/1995 55 951 11/8/1995 55 951 11/8/1995 54 951 11/8/1995 55 951 900 900 900 5/17/1996 20 96 10/14/1996 20 96 11/16/1997 24 96	2/13/1995	16					36		950215-031
5/3/1995 15 950 5/8/1995 43 950 5/8/1995 49 950 7/19/1995 16 32 950 7/25/1995 11 32 950 8/1/1995 41 950 8/1/1995 43 950 10/23/1995 30 950 10/30/1995 40 951 11/8/1995 54 951 11/8/1995 54 951 11/8/1995 55 951 11/15/1996 20 42 960 5/17/1996 20 59 960 7/10/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 11/16/1997 24 960 960	4/19/1995						39		950419-194
5.8/1995 43 950 5.8/1995 49 950 7/19/1995 16 32 950 7/25/1995 11 32 950 8/14/1995 41 950 8/14/1995 30 950 10/23/1995 30 950 10/23/1995 40 951 10/30/1995 36 951 11/8/1995 54 951 11/8/1995 55 951 11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	4/24/1995						44		950425-170
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5/3/1995						15		950503-140
7/19/1995 16 8/7/25/1995 11 8/7/1995 41 8/14/1995 43 8/14/1995 30 10/23/1995 34 10/30/1995 40 11/8/1995 54 11/8/1995 55 11/15/1995 55 51/22/1996 20 57/17/1996 20 67/10/1996 20 10/14/1996 20 10/14/1996 20 10/14/1996 20 10/14/1996 35 10/14/1996 35 10/14/1997 24	5/8/1995						43		950509-033
7/25/1995 11 8/7/1995 41 8/14/1995 43 8/14/1995 30 10/23/1995 34 10/30/1995 40 11/8/1995 36 11/8/1995 54 11/15/1995 55 11/15/1995 55 5/17/1996 20 42 960 5/17/1996 59 7/10/1996 20 65 960 10/14/1996 35 11/16/1997 24	5/8/1995						49		950509-041
8/7/1995 41 950 8/14/1995 30 950 10/23/1995 34 951 10/30/1995 40 951 11/8/1995 54 951 11/15/1995 55 951 11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 20 65 960 7/10/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 1/16/1997 24 86 970	7/19/1995	16					32		950720-047
8/14/1995 43 950 8/14/1995 30 950 10/23/1995 34 951 10/30/1995 40 951 11/8/1995 36 951 11/8/1995 54 951 11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	7/25/1995	11					32		950726-034
8/14/1995 43 950 8/14/1995 30 950 10/23/1995 34 951 10/30/1995 40 951 11/8/1995 36 951 11/15/1995 54 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	8/7/1995						41		950808-083
10/23/1995 34 951 10/30/1995 40 951 10/30/1995 36 951 11/8/1995 54 951 11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970							43		950815-023
10/30/1995 40 951 10/30/1995 36 951 11/8/1995 54 951 11/22/1996 20 55 951 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	8/14/1995						30		950815-031
10/30/1995 36 951 11/8/1995 54 951 11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	10/23/1995						34		951024-036
11/8/1995 54 951 11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	10/30/1995						40		951031-056
11/15/1995 55 951 1/22/1996 20 42 960 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	10/30/1995						36		951031-060
1/22/1996 20 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	11/8/1995						54		951110-059
1/22/1996 20 5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970	11/15/1995						55		951116-020
5/17/1996 59 960 7/10/1996 20 65 960 10/14/1996 35 961 1/16/1997 24 86 970		20							960122-119
7/10/1996 20 10/14/1996 35 961 1/16/1997 24 86 970									960521-007
10/14/1996 35 961 1/16/1997 24 86 970		20							960710-204
1/16/1997 24 86 970	10/14/1996								961015-019
		24							970121-043
									970414-100
7/14/1997 26 84 970		26							970714-133
									970714-134

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			Organic Labor Analysis Res				R	adiological L Analysis F				
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
10/14/1997								95				971014-047
1/12/1998	30							101				C980140119
7/13/1998	25											C981960004
7/13/1998	25											C981960005
1/11/1999	26											C990110084
7/20/1999	40											C992020007
7/20/1999	42											C992020008
1/11/2000	71											C000110092
7/12/2000	61							148				C001940098
□ 1/9/2001	81							148				C010100017
7/11/2001	55							107				C011930007
1/8/2002	140							166				C020080098
7/22/2002	89							64.7				C022030173
1/21/2003	230							134				C030210115
7/23/2003	130							98.9				C032040144
1/21/2004	280							146				C040210090
7/22/2004	394											C042050002
7/22/2004	340	12	< 5	< 5	< 5	< .668	57.7	132	< .0902	< .0122	< .348	C042050009
7/27/2004	320							112				C042090056
1/24/2005	440							134	< .0357	< .0147	<0135	C050240045
7/27/2005	420							118	< .0346	< .00589	< .00252	C052080180
1/24/2006	410							101	< .0973	<0183	< .0768	C060240039
7/24/2006	550							119	< 1.07	< .187	< .282	C062050057
1/24/2007	610							118	< 1.03	<00311	< .21	C070240038
7/24/2007	660							112	< .0971	<0355	< .0361	C072060043

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				Organic Labor Analysis Res				R	adiological L Analysis F				
	mple Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
1/15/2	2008	640							110	<0264	< .0644	< .00478	C080160004
7/24/2	2008	640							98.7	< .0399	< .00678	<00253	C082060091
2/5/2	2009	760							86.5				C09036036004
5/12/2	2009	850	26	< 5	< 5	< 5	<403	49.2	92.3				C09132009001
7/28/2	2009	730							74.6				C09209020001
9/21/2	2009	780	< 25	< 5	< 25	< 5	< 2.56	46.3	88.1				C09265006002
12/10/2	2009	880							79.1				C09344026005
1/26/2	2010	610							69.3				C10026023001
3/9/2	2010	650	22	< 10	< 10	< 10	4.2	49.4	74				C10068052005
F 6/1/2	2010	640							75.7				C10152026001
7/14/2	2010	710							60.7				C10195040002
9/7/2	2010	720	22	< 10	< 10	< 10	< 4.04	38.8	73.8				C10250033001
1/3/2	2011	690							47.6				C11003029002
5/11/2	2011	830	28	< 5	< 5	< 5	4.3	41	54.5				C11131023001
7/28/2	2011	780							53.2				C11209031001

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Sample Date 5/13/1993	TCE μg/L	1,1-DCE						Analysis R	esults			
5/13/1993		μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
0,10,1,,0	2							17				930513-239
6/2/1993	2							0				930602-124
6/16/1993	2							0				930617-138
7/13/1993	2							12				930713-156
7/19/1993	2							10				930721-102
8/9/1993	2							5				930810-014
8/16/1993	2							13				930820-001
9/30/1993	2							13				930930-173
10/26/1993	2							7				931027-053
11/8/1993	2							0				931109-077
11/16/1993	2							9				931117-134
1/11/1994	3							18				940111-181
1/25/1994	3							11				940126-017
2/8/1994	3							0				940209-001
2/15/1994	3							5				940216-019
4/29/1994	4											940429-116
7/18/1994	2							0				940719-061
7/26/1994	3							6				940726-202
8/10/1994	4							14				940811-063
8/10/1994	4							10				940811-075
8/10/1994	3	< 5	< 5	< 5	< 5							S408081-01V
8/18/1994	4							3				940818-131
1/17/1995	4							9				950118-204
1/23/1995	4							10				950125-097
1/23/1995	3							18				950125-093

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			Organic Labor Analysis Res				R	adiological La Analysis R				
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
2/6/1995	3							9				950207-059
2/13/1995	4							17				950215-027
4/19/1995								16				950419-202
4/24/1995								20				950425-162
4/24/1995								23				950425-178
5/3/1995								5				950503-136
5/8/1995								14				950509-049
7/19/1995	5							6				950720-043
7/25/1995	4							23				950726-038
8/7/1995								17				950808-087
8/7/1995								14				950808-067
8/14/1995								12				950815-027
10/23/1995								0				951024-032
10/23/1995								0				951024-040
10/30/1995								6				951031-064
11/8/1995								7				951110-063
11/15/1995								22				951116-024
1/22/1996	4							3	2.9	.18	6.69	960122-115
1/22/1996	4							4				960122-123
5/17/1996								10				960521-008
7/9/1996	5							7				960709-085
10/14/1996								0				961015-018
1/16/1997	6							3				970121-042
1/16/1997	6							11				970121-041
4/14/1997								367				970414-099

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			Organic Labor Analysis Res				R	Radiological L Analysis R				
Samp Da		1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
7/14/199	7 6							2				970714-135
10/14/199	7							12				971014-048
1/12/199	8 4							< 9				C980140120
1/12/199	8 4							< 8				C980140122
7/13/199	8 6											C981960003
1/11/199	9 6											C990110086
1/11/199	9 6											C990110085
7/20/199	9 8											C992020009
1/11/200	0 3											C000110093
7/12/200	0 6							< 3.92				C001940099
1/9/200	1 3							< 3.82				C010100018
7/11/200	1 7							< 7.5				C011930006
1/8/200	2 23							20.2				C020080097
7/22/200	2 23							33.4				C022030172
1/21/200	3 24							< 9.75				C030210114
7/23/200	3 26							22.5				C032040145
1/21/200	14 31							< 17				C040210091
7/22/200	40											C042050003
7/22/200	14 33	< 1	< 1	< 1	< 1	5.9	10.1	< 10.4	< .284	< .00706	< .412	C042050010
7/27/200	4 39							<469				C042090057
1/24/200	5 76							22.8	< .348	<0287	< .122	C050240047
7/27/200	5 45							18.9	< .0822	< .0131	< .0649	C052080181
1/25/200	6 38							20.3	< .0898	< .004	< .0169	C060250133
7/24/200	61							< 4.11	< 1.36	< .263	< .298	C062050058
1/24/200	7 180							< 11	< .219	< .0426	< .0696	C070240039

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				Organic Labo Analysis Re				R	adiological La Analysis R				
	Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
-	7/24/2007	73							24	< .124	<0338	< .0891	C072060044
	1/16/2008	79							< 11	< .21	< .00145	< .0742	C080160068
	7/24/2008	110							< 10.9	< .0526	< .00769	<00691	C082060092
	2/5/2009	82							< 9.22				C09036036005
	5/12/2009	210	4.2	< 1	< 1	< 1	< 1.54	7.61	< -2.16				C09132009002
	7/28/2009	140							16.5				C09209020002
	9/21/2009	140	< 5	< 1	< 5	< 1	< .447	7.47	< 14.8				C09265006003
	12/10/2009	150							< 12.6				C09344026006
	1/26/2010	110							< 17.1				C10026023002
F-13	3/9/2010	150	3.5	< 1	< 1	< 1	< 2.74	7.52	< -4.34				C10068052006
ω	6/1/2010	160							< 11.8				C10152026002
	7/14/2010	140							< 8.12				C10195040003
	9/7/2010	110	2.5	< 1	< 1	< 1	<521	5.85	< 13.6				C10250033002
	1/3/2011	94							< 7.15				C11003029001
	5/11/2011	310	6.2	< 1	< 1	< 1	< .974	10.6	< .676				C11131023002
	7/28/2011	160							< 4.69				C11209031002

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			Organic Labor Analysis Res	ratory			R	adiological La Analysis R	aboratory esults			
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
10/14/1996	10				< .48	•						96M04623-3717
10/14/1996									9.66		.14	96M04623-3731
10/14/1996								-1.1				96M04623-3761
1/29/1997	5	< 5	< 5	< 5	< 5							970130-051
9/23/1997	5	< 5	< 5	< 5	< 5	2	2	6				970923-064
11/19/1997	6	< 5	< 5	< 5	< 5	7	2	-8				971119-080
2/9/1998	8	< 5	< 5	< 5	< 5	< 2.3	< 1	< 1				C980420046
5/4/1998	14	< 5	< 5	< 5	< 5	< 5.1	15	< 3				C981250036
8/10/1998	16	< 5	< 5	< 5	< 5	< 4.3	6	< 3.9				C982220109
11/12/1998	16	< 5	< 5	< 5	< 5	< -1.37	5.36	< 16				C983160089
3/3/1999	30	< 5	< 5	< 5	< 5	< .68	< 2.83	19.27				C990620037
6/4/1999	33	< 5	< 5	< 5	< 5	< 1.23	< .07	< 2.81				C991580024
9/15/1999						<79		< 4.13				C992580210
12/7/1999	29	< 5	< 5	< 5	< 5	2.48	< 1.48	< .475				C993410100
12/7/1999	33	< 5	< 5	< 5	< 5	< .45	< .49	< -6.17				C993410101
3/8/2000	46	< 5	< 5	< 5	< 5	< 1.58	< 4.62	< -12.8		< 0		C000680108
6/14/2000	110	< 5	< 5	< 5	< 5	< .52	<97	< -4.54				C001670002
9/12/2000	140	< 5	< 5	< 5	< 5	< 2.67	< 3.97	< 9.38				C002560135
12/18/2000	110	< 10	< 10	< 10	< 10	< .462	< .604	< 3.24				C003540006
3/19/2001	310	< 5	< 5	< 5	< 5	<5	< .794	< 8.5				C010780093
6/6/2001	230	< 25	< 25	< 25	< 25	< 1.62	4.76	<303				C011570178
9/25/2001	290	< 25	< 25	< 25	< 25	< 2.25	< 1.41	< -2.35		< -9.94		C012680234
12/17/2001	390	< 25	< 25	< 25	< 25	< 1.86	<125	<337				C013510092
3/13/2002										< -3.95		C020720129
3/13/2002	410	< 25	< 25	< 25	< 25	< 1.13	< .94	<654				C020720130

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			Organic Labor Analysis Res				R	adiological L Analysis R				
Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
6/10/2002	420	< 50	< 50	< 50	< 50	< 1.57	< -2.59	< -15.7				C021610047
9/5/2002	330	< 50	< 50	< 50	< 50	<977	<125	< 8.51				C022480132
12/2/2002	530	< 25	< 25	< 25	< 25	< 1.7	< .462	< -6.2				C023370013
6/10/2003	550	< 25	< 25	< 25	< 25	< 1.08	< 1.1	< 12.4				C031620013
12/4/2003	440	< 25	< 25	< 25	< 25	< .213	< 2.21	< 0				C033380096
6/7/2004	750	< 50	< 50	< 50	< 50	<231	<683	<384	< 30	< 2.2	< .35	C041590175
7/20/2004	430	< 10	< 10	< 10	< 10	< 1.44	< 1.43	< 2.73	< .198	< .00505	< .363	C042020116
12/30/2004	1100	< 50	< 50	< 50	< 50	<0341	< .436	< 1.21				C043650022
6/14/2005	760	< 50	< 50	< 50	< 50	< .455	< 2.91	< 6.24	< .0723	<0127	< .0115	C051650114
2/14/2006	1300	< 50	< 50	< 50	< 50	< 2.43	< 3.19	< 5.18				C060450088
2/14/2006	1500	< 50	< 50	< 50	< 50	<267	< 3.66	< 6.25				C060450089
9/12/2006	1600	< 120	< 120	< 120	< 120	< 1.58	4.31	< -12.7				C062550163
3/19/2007	2700	< 100	< 100	< 100	< 100	4.34	8.66	< 13.8				C070780102
9/19/2007	1900	< 20	< 20	< 100	< 20	< 2.81	6.15	< .212				C072630092
3/11/2008	4100	< 25	< 25	< 120	< 25	< 1.75	16.9	19				C080710145
9/3/2008	2700	< 25	< 25	< 120	< 25	< .456	6.72	27.3				C082470086
2/9/2009	4500							22.7				C09040013001
5/7/2009	7100	< 250	< 50	< 250	< 50	< 2.35	22	39.9				C09127062003
7/28/2009	4500							21.1				C09209012001
9/25/2009	1400	< 50	< 50	< 50	< 50	< .535	17.7	21.3				C09268017001
1/26/2010	2800							38.1				C10026023004
3/8/2010	6700	< 50	< 50	< 50	< 50	< .795	24.7	38.6				C10067037002
7/9/2010	2700							< 10.3				C10190027002
9/8/2010	2500	< 50	< 50	< 50	< 50	< 1.48	10.6	18.7				C10251037004
1/4/2011	2800							< 15.6				C11005004006

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			Organic Labor Analysis Res	•			R	adiological L Analysis R	•			
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
5/11/2011	5200	< 100	< 20	< 20	< 20	< 2.14	13.1	< 16.3				C11131034002
7/28/2011	5800							23.4				C11209031004

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			Organic Labor Analysis Res				R	adiological L Analysis R	aboratory tesults			
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
10/4/1996	8.3				< .48							96M04622-3716
10/4/1996									.38		.27	96M04622-3730
10/4/1996								14				96M04622-3760
1/29/1997	10	< 5	< 5	< 5	< 5							970130-050
9/22/1997	38	< 5	< 5	< 5	< 5	3.8	21	26				970923-040
11/19/1997	41	< 5	< 5	< 5	< 5	.9	22	21				971119-081
2/9/1998	48	< 5	< 5	< 5	< 5	< 1.3	18	26				C980420047
5/4/1998	34	< 5	< 5	< 5	< 5	< 4.4	37	36.8				C981250037
8/10/1998	58	< 5	< 5	< 5	< 5	< .6	35	55.1				C982220110
11/17/1998	61	< 5	< 5	< 5	< 5	3.06	37.83	69.2				C983210021
3/3/1999	110	< 25	< 25	< 25	< 25	< 1.91	< 2.49	62.71				C990620038
6/4/1999	47	< 5	< 5	< 5	< 5	< .4	48.8	73.5				C991580025
9/15/1999						< .8	48.9	72.4				C992580183
12/7/1999	44	< 5	< 5	< 5	< 5	4.34	69.36	77.7				C993410097
3/7/2000	44	< 5	< 5	< 5	< 5	<43	79.03	84.8		< -9.63		C000680019
6/14/2000	75	< 5	< 5	< 5	< 5	< 1.02	97.07	117				C001670003
9/12/2000	44	< 5	< 5	< 5	< 5	< 3.09	112.58	129				C002560134
12/18/2000	50	< 5	< 5	< 5	< 5	<451	75.1	124				C003540007
3/19/2001	90	< 5	< 5	< 5	< 5	< 1.05	81.1	147				C010780094
6/6/2001	97	< 5	< 5	< 5	< 5	< .921	97.6	98.5				C011570179
9/24/2001	75	< 5	< 5	< 5	< 5	< -2.29	97.2	175		< -8.42		C012680004
12/17/2001	150	< 10	< 10	< 10	< 10	4.96	103	158				C013510093
3/13/2002										< -7.31	< 0	C020720125
3/13/2002	240	< 25	< 25	< 25	< 25	< 4.6	68	91.3				C020720126
6/10/2002	320	< 25	< 25	< 25	< 25	< -1.91	43.3	55.1				C021610048

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			Organic Labor Analysis Res									
Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
9/5/2002	96	< 25	< 25	< 25	< 25	< .989	115	196				C022480133
12/2/2002	100	< 5	< 5	< 5	< 5	< 1.72	127	205				C023370011
6/9/2003	580	< 25	< 25	< 25	< 25	< .265	63.1	113				C031600083
12/4/2003	110	< 25	< 25	< 25	< 25	10.8	159	168				C033380097
6/8/2004	180	< 25	< 25	< 25	< 25	< -1.26	111	208	< 30	< 2.2	< .35	C041600042
7/20/2004	120	< 2	2.2	< 2	< 2	3.45	111	203	< .101	<00296	< .275	C042020117
12/8/2004	140	< 10	< 10	< 10	< 10	< -2.1	129	195				C043430086
6/21/2005	180	< 10	< 10	< 10	< 10	4.73	113	177	< .059	<0123	< .00534	C051720110
2/14/2006	780	< 25	< 25	< 25	< 25	< .0576	21.5	216				C060450090
9/12/2006	670	< 50	< 50	< 50	< 50	3.19	157	229				C062550177
3/19/2007	750	< 5	14	< 5	< 5	< 2.38	163	237				C070790063
9/19/2007	450	< 5	< 5	< 25	< 5	4.99	123	222				C072630052
3/6/2008	2000	< 10	< 10	< 50	< 10	4.24	173	224				C080670001
12/18/2008	640	< 10	< 10	< 10	< 10	< 1.52	97.5	282				C08353022001
2/10/2009	1600							256				C09041031001
5/11/2009	2300	< 25	< 25	< 25	< 25	< 1.82	177	205				C09131017003
7/28/2009	860							282				C09209006001
9/25/2009	500	< 10	< 10	< 10	< 10	4.01	196	284				C09268025002
1/27/2010	660							278				C10027031002
3/16/2010	790	< 50	< 10	< 50	< 10	5.77	191	298				C10075019002
7/14/2010	840							298				C10195017001
9/13/2010	900	< 10	< 10	< 10	< 10	< 1.14	155	271				C10256034001
1/3/2011	820							309				C11003029004
5/19/2011	1800	< 50	< 10	< 10	< 10	6.63	172	264				C11139019001
8/10/2011	880							347				C11222050002

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			Organic Labor Analysis Res									
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA µg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
8/10/2011	1100							333				C11222050003

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			Organic Labor Analysis Res									
Sample Date	TCE μg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
10/4/1996									.56		.67	96M04621-3729
10/4/1996								82				96M04621-3759
10/4/1996	.7				< .48							96M04621-3715
1/29/1997	< 1	< 5	< 5	< 5	< 5							970130-049
9/22/1997	< 1	< 5	< 5	< 5	< 5	-1.1	3	8				970923-041
11/19/1997	< 1	< 5	< 5	< 5	< 5	.8	2	-10				971119-082
2/9/1998	< 1	< 5	< 5	< 5	< 5	< 4.2	< 5	< 0				C980420048
5/4/1998	2	< 5	< 5	< 5	< 5	< .2	12	<6				C981250038
8/6/1998	< 1	< 5	< 5	< 5	< 5	< -1.9	< 3	< .2				C982180120
T-20	< 1	< 5	< 5	< 5	< 5	< 1.15	< 2.58	< -9.2				C983210022
3/3/1999	5	< 5	< 5	< 5	< 5	< .35	< 1.7	19.04				C990620039
6/3/1999	1	< 5	< 5	< 5	< 5	< .96	19.31	<869				C991540178
9/15/1999						< 1.1		< 8.63				C992580184
12/7/1999	< 1	< 5	< 5	< 5	< 5	< 1.51	< 2.91	< -2.48				C993410096
3/7/2000	< 1	< 5	< 5	< 5	< 5	< 0	5.93	< -4.97		< -11.6		C000680018
6/14/2000	24	< 5	< 5	< 5	< 5	< 1.83	< -2.5	< -9.54				C001670001
9/12/2000	21	< 5	< 5	< 5	< 5	< 2.6	8.27	< 7.94				C002560133
12/18/2000	< 1	< 5	< 5	< 5	< 5	< 3.14	5.38	< 7.73				C003540008
3/19/2001	5	< 5	< 5	< 5	< 5	<418	< .657	< .481				C010780095
6/6/2001	8	< 5	< 5	< 5	< 5	< .866	< 2.9	< -3.53				C011570180
9/24/2001	3	< 5	< 5	< 5	< 5	<18	< 2.92	< -7.31		< -4.82		C012680005
12/17/2001	24	< 5	< 5	< 5	< 5	< 1.14	< .738	< -20.6				C013510094
3/13/2002										< 0		C020720127
3/13/2002	78	< 5	< 5	< 5	< 5	<652	< 4	< 1.2				C020720128
6/10/2002	130	< 10	< 10	< 10	< 10	< 1.08	< 5.59	< 1.54				C021610049

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		Organic Laboratory Analysis Results						Radiological Laboratory Analysis Results						
Sam D	ple ΤΟ Date μg				,2-DCA μg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID	
9/5/20	002 1	.1 <	5 <	< 5	< 5	< 5	< .0927	< 2.41	< 2.99				C022480134	
12/3/20	002	< <	5 <	< 5	< 5	< 5	< .447	< 3.19	< 13.4				C023370048	
6/9/20	003 14	40 <	10 <	10	< 10	< 10	<525	8.03	18.8				C031600084	
12/4/20	003	9 <	5 <	< 5	< 5	< 5	< 1.42	6.17	< 0				C033380098	
6/8/20	004 2	.22 <	5 <	< 5	< 5	< 5	< -1.41	< .409	< 9.88	< 30	< 2.2	< .35	C041600043	
7/20/20	004 4	.6 <	1 <	< 1	< 1	< 1	< .125	< 2.32	<111	< .169	< .0261	< .423	C042020118	
12/8/20	004 1	3 <	5 <	< 5	< 5	< 5	< .742	< 3.48	< 5.2				C043430088	
6/16/20	005 1	1 <	5 <	< 5	< 5	< 5	< 1.43	< 2.46	< 12.4	< .0101	<0133	<0335	C051670015	
2/14/20	006 8	< 2	5 <	< 5	< 5	< 5	<143	6.12	< 3.55				C060450091	
F 9/12/20	006 2	<.5	5 <	< 5	< 5	< 5	< .511	7.01	< -7.99				C062550178	
3/19/20	007 13	30 <	5 <	< 5	< 5	< 5	< 1.6	18.3	29.4				C070790064	
9/19/20	007 4	<	1 <	< 1	< 5	< 1	< 1.36	7.27	18.2				C072630053	
9/19/20	007 4	<	1 <	< 1	< 5	< 1	< 2.72	9.39	< 12.3				C072630054	
3/6/20	008 5	20 <	1 <	< 1	< 5	< 1	< 2.16	60.8	74.6				C080670002	
9/2/20	008 3	< 33	1 <	< 1	< 5	< 1	< 2.39	7.6	< 9.04				C082460126	
2/9/20	009 2	20							35.1				C09040021003	
5/7/20	009 69	90 <	25 <	< 5	< 25	< 5	<167	64.6	83.5				C09127062004	
7/28/20	009 8	30							26.3				C09209006002	
9/25/20	009 4	< 0	1 <	< 1	< 1	< 1	< 3.07	< 3.87	< 3.76				C09268017003	
1/27/20	010 8	39							22.4				C10027031001	
3/16/20	010 3	< <	10 <	< 2	< 10	< 2	< 1.76	8.45	< 10.3				C10075019003	
7/14/20	010 1	4							< -3.51				C10195017002	
7/14/20	010 1	4							< .779				C10195017003	
9/13/20	010 1	4 <	1 <	< 1	< 1	< 1	< 1.25	< 3.53	< 7.51				C10256034002	
1/3/20	011 3	9							< 9.16				C11003029005	

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NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

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			Organic Labor Analysis Res	•								
Sample Date	TCE µg/L	1,1-DCE μg/L	1,1-DCA μg/L	1,2-DCA μg/L	trans-1,2-DCE μg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
5/19/2011	1300	< 5	< 1	< 1	< 1	< 1.41	94.2	158				C11139019002
8/10/2011	200							32.7				C11222050004

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