



## Department of Energy

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April 29, 2026

Mr. Brian Begley  
Federal Facility Agreement Manager  
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PPPO-02-10036891-26

Ms. April Webb  
Interim Federal Facility Agreement Manager  
Hazardous Waste Branch Manager  
Division of Waste Management  
Kentucky Department for Environmental Protection  
300 Sower Boulevard, 2nd Floor  
Frankfort, Kentucky 40601

Dear Mr. Begley and Ms. Webb:

**U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT  
FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE  
FIRST HALF OF FISCAL YEAR 2026, PADUCAH, KENTUCKY, DOE/LX/07-2534/V1**

Enclosed is the *U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2026 Paducah, Kentucky*, DOE/LX/07-2534/V1, and the associated certification page. This report is required by Sections XXIII and XXXII.F of the Federal Facility Agreement (FFA) and Part IV (Corrective Action) of the Hazardous Waste Management Facility Permit.

In accordance with Section XX of the Paducah FFA, the U.S. Environmental Protection Agency and the Kentucky Department for Environmental Protection have a 90-day review period. If the FFA parties have no substantive comments, then the U.S. Department of Energy requests a letter of concurrence.

If you have any questions or require additional information, please contact me at (270) 217-2029.

Sincerely,

APRIL LADD

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April Ladd  
Federal Facility Agreement Manager  
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. *U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2026 Paducah, Kentucky, DOE/LX/07-2534/V1*

General Reference Compendium

cc w/enclosures:

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## CERTIFICATION

**Document Identification:**

***U.S. Department of Energy Paducah Gaseous Diffusion Plant  
Federal Facility Agreement Semiannual Progress Report for the  
First Half of Fiscal Year 2026 Paducah, Kentucky,  
DOE/LX/07-2534/V1, dated April 2026***

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

Four Rivers Nuclear Partnership, LLC

MYRNA REDFIELD  
(Affiliate)

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Myrna E. Redfield, Program Manager/Date Signed  
Four Rivers Nuclear Partnership, LLC

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

U.S. Department of Energy

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April Ladd, Paducah Site Lead/Date Signed  
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**DOE/LX/07-2534/V1  
Secondary Document**

**U.S. Department of Energy  
Paducah Gaseous Diffusion Plant  
Federal Facility Agreement  
Semiannual Progress Report for the  
First Half of Fiscal Year 2026  
Paducah, Kentucky**



**CLEARED FOR PUBLIC RELEASE**



**DOE/LX/07-2534/V1  
Secondary Document**

**U.S. Department of Energy  
Paducah Gaseous Diffusion Plant  
Federal Facility Agreement  
Semiannual Progress Report for the  
First Half of Fiscal Year 2026  
Paducah, Kentucky**

Date Issued—April 2026

U.S. DEPARTMENT OF ENERGY  
Office of Environmental Management

Prepared by  
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,  
managing the  
Deactivation and Remediation Project at the  
Paducah Gaseous Diffusion Plant  
under Contract DE-EM0004895

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## ACRONYMS

AR	Administrative Record
BGOU	Burial Grounds Operable Unit
CAB	Citizens Advisory Board
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRP	community relations plan
CSOU	Comprehensive Site Operable Unit
D&D	deactivation and decommissioning
DNAPL	dense nonaqueous-phase liquid
DOE	U.S. Department of Energy
EIC	Environmental Information Center
EPA	U.S. Environmental Protection Agency
EW	extraction well
FFA	Federal Facility Agreement
FRNP	Four Rivers Nuclear Partnership, LLC
GRC	general reference compendium
GWOU	Groundwater Operable Unit
IRA	interim remedial action
KDEP	Kentucky Department for Environmental Protection
LUCIP	land use control implementation plan
MCL	maximum contaminant level
MOA	memorandum of agreement
MW	monitoring well
NEPCS	Northeast Plume Containment System
NTCRA	non-time-critical removal action
NTU	nephelometric turbidity unit
NWD	North Wind Dynamics, LLC
NWPGS	Northwest Plume Groundwater System
O&M	operation and maintenance
OSWDF	on-site waste disposal facility
OU	operable unit
PD	post-decision
PEGASIS	PPPO Environmental Geographic Analytical Spatial Information System
PPPO	Portsmouth/Paducah Project Office
PVA	property valuation administrator
RGA	Regional Gravel Aquifer
ROD	Record of Decision
SMP	site management plan
SWMU	solid waste management unit
SWOU	Surface Water Operable Unit
VOC	volatile organic compound
WAG	waste area grouping
WDA	waste disposal alternatives

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# FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FIRST HALF OF FISCAL YEAR 2026

**Facility: Paducah Gaseous Diffusion Plant**  
**Plant EPA I.D. No.: KY8-890-008-982**  
**Reporting Period: 10/1/2025–3/31/2026**

## INTRODUCTION

The Paducah Gaseous Diffusion Plant 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 Department for Environmental Protection (KDEP) 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 integrated into the following operable units (OUs) and associated decisions as documented in the *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026* (SMP)<sup>1</sup>:

- Environmental Media Sitewide OU
- Deactivation and Decommissioning (D&D) OU
- CERCLA Waste Disposal Alternatives (WDA) OU
- Comprehensive Site OU (CSOU)
- C-400 Complex OU (C-400 Complex OU has been retained as a contingency.)

Section XXIII of the FFA requires that DOE prepare a regulatory semiannual progress report that describes the actions that DOE has taken during the previous six months to implement FFA requirements, as well as the schedules of activities to be taken during the upcoming six months.<sup>2</sup> Activities that have taken place after the reporting period end date are not included in this report, but will be included in the reporting period in which they occur. Projects and activities reported in this FFA semiannual report update are grouped by the OUs listed in Table 1. The Decision 2029 cleanup strategy was incorporated into the *Site Management Plan Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026* and has resulted in the identification of historical legacy OUs. As in previous issues of the FFA semiannual reports, the project information applicable to these OUs will continue to be reported in this FFA semiannual report and is shown in Table 1.

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<sup>1</sup> *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, December 2025.

<sup>2</sup> Schedules are included for information and planning purposes only; enforceable schedules are established in the SMP.

**Table 1. Legacy and Decision 2029 OUs and Corresponding Report Topics**

Legacy OUs and Decision 2029 OUs	Project/Activities
C-400 Complex OU	<ul style="list-style-type: none"> <li>• C-400 D&amp;D</li> <li>• C-400 Final Remedial Action</li> </ul>
GWOU	<ul style="list-style-type: none"> <li>• C-400 Interim Remedial Action (IRA)</li> <li>• Southwest Plume Sources Remedial Action</li> <li>• Dissolved-Phase Plumes Remedial Action</li> <li>• Northeast Plume IRA</li> <li>• Northwest Plume IRA</li> </ul>
BGOU	<ul style="list-style-type: none"> <li>• C-749 Uranium Burial Ground Solid Waste Management Unit (SWMU) 2</li> </ul>
SWOU	<ul style="list-style-type: none"> <li>• Remedial Action</li> </ul>
CERCLA WDA OU (Decision 2029)	<ul style="list-style-type: none"> <li>• CERCLA WDA Evaluation</li> </ul>
Environmental Media Sitewide OU (Decision 2029)	<ul style="list-style-type: none"> <li>• Soils SWMUs</li> <li>• Soils and Slabs</li> <li>• Facility decommissioning (at and below grade features)</li> <li>• C-400 Complex [at and below grade features and confirmed/probable dense nonaqueous-phase liquid (DNAPL) in groundwater]</li> <li>• Burial Grounds</li> <li>• Groundwater               <ul style="list-style-type: none"> <li>— Southwest Plume sources [above the Regional Gravel Aquifer (RGA)]</li> <li>— Potential additional groundwater sources (above the RGA)</li> </ul> </li> <li>• Surface Water</li> <li>• Lagoons</li> </ul>
D&D OU (Decision 2029)	<ul style="list-style-type: none"> <li>• Facility decommissioning (abovegrade structures only)</li> <li>• C-400 Complex (abovegrade structures only)</li> <li>• Remaining non-CERCLA decommissioning activities (not currently in an OU)</li> </ul>
Water Policy	<ul style="list-style-type: none"> <li>• Removal Action</li> </ul>
Additional Reporting	<ul style="list-style-type: none"> <li>• Waste Area Groupings (WAGs) 1 and 7</li> <li>• Community Relations Plan (CRP)</li> <li>• SMP</li> <li>• CERCLA Five-Year Review</li> </ul>

The approved *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky Annual Revision—FY 2026*, DOE/LX/07-2526&D2, documents the FFA parties’ conceptual alignment on the integrated and accelerated approach to site cleanup; the FFA parties continue to work toward implementing this strategy and the details of the approach. Previous OU scope descriptions, shown in Table 1, remain largely unchanged in this document and will be updated after the proposed decision documents [i.e., Environmental Media Sitewide OU Record of Decision (ROD), D&D ROD, WDA ROD] are signed. Table 2 illustrates the OU decision crosswalk and conceptual approach contained in the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky Annual Revision—FY 2026*. DOE intends to work with the FFA parties to provide additional details on executing this approach. Three remedial investigations/feasibility studies, proposed plans, and RODs are proposed for submittal in 2029 (or earlier). The Environmental Media Sitewide OU ROD will combine cleanup actions for at and below grade features

(e.g., slabs, utilities, basement structures), soils, surface water, C-400 confirmed/probable DNAPL, slabs, lagoons, and burial grounds into a single final decision, establishing final cleanup levels for the entire Paducah Site based on anticipated future use. The sitewide D&D ROD will combine all abovegrade structures into a single final decision (incorporating deactivation under the FFA/CERCLA process, as defined in the ROD). The WDA ROD will make a final waste disposition decision for waste generated by the D&D and Environmental Media decisions. A final CSOU will consider appropriate actions for remaining contamination, after actions determined by the three decision documents are complete, for groundwater actions (Dissolved-Phase Plumes, Northeast and Northwest Plumes, and Water Policy), for DUF<sub>6</sub> footprint underlying soil (and other site components required for DUF<sub>6</sub> operations), and for comprehensive risk review of remaining site conditions.

**Table 2. OU Decision Crosswalk**

Decision 2029 ROD OUs	Legacy OUs
WDA OU	WDAs
D&D OU	Facility Decommissioning (abovegrade structures only)
	C-400 Complex (abovegrade structures only)
	Remaining non-CERCLA Decommissioning OU activities (not currently in an OU)
Environmental Media Sitewide OU*	Soils OU (SWMUs)
	Soils and Slabs
	Facility Decommissioning (at and below grade)
	C-400 Complex (at and below grade) and confirmed/probable DNAPL in groundwater
	Burial Grounds
	Groundwater Sources —Southwest Plume Sources (above the RGA) —Potential Additional Groundwater Sources (above the RGA)
	Surface Water (on-site and off-site)
	Lagoons
CSOU	DUF <sub>6</sub> Footprint Underlying Soils (and other site components required for DUF <sub>6</sub> operations)
	Groundwater Dissolved-Phase Plume —Northeast Plume (interim ROD transition to final remedy) —Northwest Plume (interim ROD transition to final remedy) —Dissolved-Phase Plumes
	Water Policy (removal action transition to final remedy)
	Potential additional Groundwater Sources (RGA)
	Comprehensive risk review of remaining site conditions

\*Scope does not include groundwater for Northeast Plume (interim ROD transition to final remedy), Northwest Plume (interim ROD transition to final remedy), dissolved-phase plumes (as identified in the *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*) and Water Policy (removal action transition to final remedy).

Each section of this semiannual report 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 the next reporting period (including projected work/crucial phases of construction)
- III. Identity and assigned tasks of DOE contractors for work to be performed for this project

- 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 section satisfies a reporting requirement for the FFA Semiannual Progress Report or the Hazardous Waste Management Facility Permit and has been formatted in accordance with the template found in Appendix D of the FFA.

To account for sample analysis time and the data assessment process, the analytical data included in this report lags operational data by three months. This is in accordance with agreements made among the FFA parties during the July 14, 2022, FFA managers meeting.

This report includes five appendices as follows.

- Appendix A contains Northeast and Northwest Plumes Water Withdrawal Reports for the July 1, 2025, through December 31, 2025, reporting period.
- Appendix B contains Figures B.1 through B.30, as referenced in the Northeast and Northwest Plumes updates. All groundwater data are available in the PPPO Environmental Geographic Analytical Spatial Information System (PEGASIS) and, therefore, have not been summarized in this semiannual report.
- Appendix C contains a map depicting monitoring well (MW) locations for the C-746-K Landfill and graphical presentations of trichloroethene (TCE) concentrations in these wells over time. These data are currently collected semiannually. All groundwater data are available in PEGASIS and, therefore, have not been summarized in this semiannual report.
- Appendix D contains updates to the Administrative Record (AR) index since the last progress report. This is required by the Paducah FFA (Section XXXII.F). In October 2018, DOE began a comprehensive review of the Paducah Environmental Information Center (EIC) to ensure that the project document files were complete. As part of this effort, DOE reorganized the Paducah EIC to include the original three categories: (1) AR File, (2) Post-Decision (PD) File, and (3) General Reference Compendium (GRC); and added (4) AR Reference File and (5) AR Archive File. The AR Reference File contains programmatic documents that support the AR (e.g., SMP, Risk Methods Document). As a result of this reorganization of the EIC, Appendix D has been expanded to include updates to the AR index that include the AR File, PD File, and AR Reference File.

The AR Archive File contains documents for projects that originally were expected to have a decision document (i.e., ROD or Action Memorandum), but had been resequenced prior to a final decision. These documents have been archived within the AR Archive File to establish future AR files for

projects and, as a result, are not included in Appendix D. The AR Archive File can be viewed on the EIC website.

The GRC, which supplements the Paducah AR, contains technical documents associated with the Paducah Site that do not meet the CERCLA criteria of an AR File or a PD File (e.g., CRP, CERCLA Five-Year Review, Annual Site Environmental Report); but are deemed important in understanding the Paducah Site environmental remedial efforts. Because the GRC is not part of the AR, it is not included as part of the update to Appendix D. The GRC can be viewed on the EIC website.

- Appendix E contains figures depicting the C-749 Uranium Burial Ground (SWMU 2) groundwater MW network and a summary of the SWMU 2 trends for TCE and technetium-99 (Tc-99) for a period of five years. All groundwater data are available in PEGASIS and, therefore, have not been summarized in this semiannual report.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**C-400 COMPLEX OPERABLE UNIT**

The C-400 Complex OU was established in a *Memorandum of Agreement on the C-400 Complex under the Federal Facility Agreement for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (C-400 Complex OU MOA), signed August 8, 2017; the agreement then was incorporated into the SMP. The following two projects are included in the C-400 Complex OU.

- C-400 D&D
- C-400 Final Remedial Action

On September 16, 2022, the FFA parties executed an FFA milestone modification, which incorporated the C-400 D&D into the C-400 Final Remedial Action. Because the demolition of the C-400 Cleaning Building will be incorporated into the C-400 Final Remedial Action, milestones associated with the C-400 D&D, which was intended to be a non-time-critical removal action (NTCRA), will not be necessary. Per the Memorandum, *Suspension of D1 and D2 Comprehensive Environmental Response, Compensation, and Liability Act Documents Associated with the C-400 Cleaning Building Non-Time-Critical Removal Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (C-400 Building D&D MOA), dated October 2, 2019, the original NTCRA documents were not approved, and the NTCRA was suspended. With the FFA parties' execution of the FFA milestone modification, the C-400 Building D&D MOA is superseded, and the planning documents associated with the NTCRA and their associated milestones are no longer required because the C-400 Cleaning Building will be demolished as part of the remedial action. Additionally, under the FFA parties' FFA milestone modification, the milestone dates in the C-400 Complex OU MOA, which provided for enforceable milestones and planning dates and was later extended due to the force majeure related to COVID-19, are also superseded.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**C-400 COMPLEX OPERABLE UNIT: C-400 Final Remedial Action**

The C-400 Final Remedial Action will investigate the C-400 Complex OU and associated SWMUs, evaluate potential remedial alternatives, develop decision documents selecting an alternative(s), and design and implement the remedial alternative(s). Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the C-400 Final Remedial Action will be incorporated into the Environmental Media Sitewide OU and D&D OU.

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

- No activities were performed for this project during this reporting period.

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

- 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:**

Reporting responsibility for the work to be performed in support of the C-400 Complex OU belongs to Four Rivers Nuclear Partnership, LLC (FRNP). FRNP also provides programmatic and technical support, analytical services, and business management services. North Wind Dynamics, LLC (NWD), manages the AR and the EIC for DOE.

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

Requirements for the C-400 Complex Remedial Action are being met, consistent with the following documents:

- *Memorandum of Agreement on the C-400 Complex under the Federal Facility Agreement for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, signed August 8, 2017;
- *Memorandum of Agreement for Resolution of Formal Dispute Regarding the Non-Concurrence by EPA and KDEP on the DOE Milestone Modification Request for Submittal of 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/07-2407&D1)*, signed September 28, 2017;

- *Memorandum of Agreement for Resolution of Formal Disputes on EPA Conditional Concurrence on the Removal Notification for Demolition of the C-400 Cleaning Building in the C-400 Complex Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2420&D2 and the Engineering Evaluation/Cost Analysis for Demolition of the C-400 Cleaning Building in the C-400 Complex Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2425&D2, signed August 1, 2019; and*
- *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky Annual Revision—FY 2026, DOE/LX/07-2526&D2.*

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- None.

**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026<sup>3</sup>**

**GROUNDWATER OPERABLE UNIT**

The scope of the GWOU includes performing investigations, conducting baseline risk assessments, evaluating removal/remedial alternatives, and selecting and implementing 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 IRA, Southwest Plume Sources Remediation, 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 contaminant concentrations. The predominant contaminant of concern in the groundwater plumes is TCE. Table 3 provides an overall picture of the TCE mass removed [TCE values may contain other volatile organic compounds (VOCs)] by various actions.

**Table 3. Cumulative TCE<sup>a</sup> Removed at Paducah**

Source Area	Cumulative TCE Removed (gal) <sup>a</sup>
Northwest Plume Pump-and-Treat	4,079 <sup>b</sup>
Northeast Plume Pump-and-Treat	382 <sup>b</sup>
C-400 Six-Phase Treatability Study	1,900
C-400 Phase I	535
C-400 Phase IIa	1,137
Southwest Plume (SWMU 1)	24 <sup>c</sup>
Other sources (i.e., SWMU 91–LASAGNA™)	246
Total	8,303

<sup>a</sup>TCE values may contain other VOCs.

<sup>b</sup>Cumulative through December 31, 2025.

<sup>c</sup>Removed during deep soil mixing operations.

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<sup>3</sup> The analytical data included in this report lags operational data by three months due to sample analysis time and the data assessment process.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**GROUNDWATER OPERABLE UNIT PROJECT: C-400 IRA**

Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the C-400 IRA will be incorporated into the Environmental Media Sitewide OU.

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

- Continued long-term monitoring of the C-400 IRA groundwater monitoring network as required by the *Record of Decision for 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/OR/07-2150&D2/R2.

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

- Continue long-term monitoring for the C-400 IRA. Data from long-term monitoring for the C-400 IRA are available in PEGASIS.
- Conduct annual inspections in accordance with the *Land Use Control Implementation Plan: 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/OR/07-2151&D2/R2.

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

- Reporting responsibility for the work to be performed in support of the C-400 IRA belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

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

The requirements for the C-400 IRA are being met, consistent with the following documents:

- *Memorandum of Agreement on the C-400 Complex under the Federal Facility Agreement for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, signed August 8, 2017;
- *Memorandum of Agreement for Resolution of Formal Dispute Regarding the Non-Concurrence by EPA and KDEP on the DOE Milestone Modification Request for Submittal of 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/07-2407&D1), signed September 28, 2017;*

- *Record of Decision for 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/OR/07-2150&D2/R2; and*
- *Land Use Control Implementation Plan: 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/OR/07-2151&D2/R2.*

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- Sampling of the C-400 IRA wells has been incorporated into the Environmental Monitoring Program. O&M cost for sampling for the C-400 IRA Project is not tracked separately.

**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**GROUNDWATER OPERABLE UNIT PROJECT: Southwest Plume Sources**

Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the Southwest Plume Sources will be incorporated into the Environmental Media Sitewide OU.

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

**SWMU 1**

- Continued long-term monitoring of the SWMU 1 MW network as required by the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.
- Conducted inspections of land use control implementation plan (LUCIP) warning signs at SWMU 1 and verified the Excavation/Penetration Permit program for the Southwest Plume area as required by 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.

**SWMUs 211-A and 211-B**

- Continued performance and long-term MW network sample collection at SWMU 211-A as prescribed in the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.
- Initiated development of a summary of SWMU 211-A preliminary informal performance MW results collected through September 2025 as prescribed in the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.
- Finalized development of a summary of SWMU 211-A preliminary informal performance MW results collected through March 2025 as prescribed in the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.

- Conducted inspections of LUCIP warning signs at SWMU 211-A and SWMU 211-B and verified the Excavation/Penetration Permit Program for the Southwest Plume areas as required by 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.

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

**SWMU 1**

- Continue long-term monitoring of the SWMU 1 MW network as required by the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.
- Conduct inspections of LUCIP warning signs at SWMU 1 and verify the Excavation/Penetration Permit Program for the Southwest Plume area as required by 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.

**SWMUs 211-A and 211-B**

- Continue performance and long-term MW network sample collection at SWMU 211-A, as prescribed in the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.
- Conduct inspections of LUCIP warning signs at SWMU 211-A and SWMU 211-B and verify the Excavation/Penetration Permit Program for the Southwest Plume areas as required by 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.
- Finalize a summary of SWMU 211-A preliminary informal performance MW results collected through September 2025 as prescribed in the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.
- Initiate a summary of SWMU 211-A preliminary informal performance MW results collected through March 2026 as prescribed in the *Operation and Maintenance and Environmental Monitoring Plan for Solid Waste Management Units 1 and 211-A Remedial Actions for Volatile Organic Compound Sources to the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2501&D2.

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

- Reporting responsibility for the work to be performed in support of the Southwest Plume Sources belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

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

- The requirements for the SWMU 1 portion of the Southwest Plume sources remedial action subproject are being met, consistent with the SMP, the FFA, and as agreed to by the FFA parties.
- The requirements for the SWMU 211-A portion of the Southwest Plume subproject are being met, consistent with the SMP, the FFA, and as agreed to by the FFA parties.

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- Sampling of SWMU 1 and SWMU 211-A has been incorporated into the Environmental Monitoring Program. O&M cost for this project is not tracked separately.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**GROUNDWATER OPERABLE UNIT PROJECT: Dissolved-Phase Plumes**

Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the Dissolved-Phase Plumes will be incorporated into the CSOU.

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

- No activities were performed for this project during this reporting period.

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

- No near-term activities are scheduled. The Dissolved-Phase Plumes future scope will be incorporated into the CSOU. Following the April 2, 2025, modeling working group meeting, the FFA parties agreed by consensus to suspend the modeling working group indefinitely.

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

- Reporting responsibility for the work to be performed in support of the Dissolved-Phase Plume belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

**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:**

- 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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- None.

**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026<sup>4</sup>**

**GROUNDWATER OPERABLE UNIT PROJECT: Northeast Plume IRA**

Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the Northeast Plume IRA will be incorporated into the CSOU.

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

- Treated 46,085,024 gal of contaminated groundwater, with an average system treatment rate of 174 gal per minute during this reporting period. The system is designed so that continuous operation of the Northeast Plume Containment System (NEPCS) is possible when only one of the two extraction wells (EWs) is functional. The NEPCS achieved an average operational efficiency, as a whole, of 99.5%. Operational online efficiencies for the reporting period for C-765 were as follows: July 2025, 98.2%; August 2025, 98.9%; September 2025, 98.5%; October 2025, 100%; November 2025, 100%; and December 2025, 100%. The C-765-A operational online efficiencies for the reporting period were as follows: July 2025, 99.7%; August 2025, 100%; September 2025, 98.3%; October 2025, 100%; November 2025, 99.9%; and December 2025, 99.9%.

**A) Process Operations:**

The NEPCS consists of two EWs (EW234 and EW235), transfer piping, two treatment units for air stripping and suspended solids removal, and MW network. The old EWs, EW331 and EW332, equalization tank, and old transfer piping have been placed in standby mode.

**B) Process Testing:**

Operation of the NEPCS began February 28, 1997. As of December 31, 2025, the NEPCS has processed a total of approximately 2,446,076,177 gal of water. The monthly withdrawal volumes for 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, there is a three-month lag in the analytical data and operational data. Graphs in this report present analytical data through December 31, 2025. Data are available in PEGASIS.

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<sup>4</sup> See Note No. 3.

Influent TCE analytical data from 2021 through the end of December 2025 are presented in Appendix B. Environmental samples were collected monthly from the treatment system influent and weekly from the treatment system effluent for the period of July 1, 2025, through December 31, 2025. High, low, and average influent and effluent TCE concentrations for these months are presented in Table 4.

**Table 4. TCE Concentrations for Northeast Plume**

	TCE [microgram per liter (µg/L)]		
	High	Low	Average
Influent C-765 (EW234)	9.09	7.55	8.14
Influent C-765-A (EW235)	48.4	37	43.6
Effluent from C-765	< 1	< 1	< 1
Effluent from C-765-A	< 1	< 1	< 1
Effluent (CERCLA Outfall C001)	< 1	< 1	< 1

NOTE: Data rejected by validation or assessment are not included on the table.

As presented in Table 4, the NEPCS continued to remove TCE effectively. The systems operated with an average removal efficiency of 87.7% for EW234 and 97.7% for EW235 for TCE.

The EWs were sampled monthly during this reporting period. For the period of July 1, 2025, through December 31, 2025, EW234 had an average TCE concentration of 8.14 µg/L, while EW235 had an average concentration of 43.6 µg/L.

Treated groundwater for the Northeast Plume is discharged to a CERCLA outfall, and data associated with the CERCLA outfall are included as part of Appendix B of this report.

**D) Maintenance Activities:**

**Routine Maintenance Activities:**

Daily, monthly, quarterly, and annual routine maintenance activities were conducted in accordance with the *Northwest/Northeast Plume Daily Operational Data Collection and Maintenance*, CP4-ER-0017.

- C-765 system was shut down for 27.75 hours for planned maintenance during this reporting period.
- C-765-A system was shut down for 13.5 hours for planned maintenance during this reporting period.

**Non-routine Maintenance Activities:**

- C-765 system was shut down for a total of 4.5 hours during this reporting period due to unexpected repairs and power disruptions.
- C-765-A system was shut down for a total of 2.0 hours during this reporting period due to unexpected repairs and power disruptions.

- The C-765 treatment system tripped on February 2, 2026, due to a motor fault in EW234. Repair/motor replacement was being performed at the end of the FFA reporting period. Additional information will be included in the next FFA semiannual report.

**E) Effectiveness Monitoring—Monitoring Well Results:**

Figure B.1, included in Appendix B, shows locations of the MWs and EWs. Figure B.2 shows system influent TCE concentrations, and Figure B.3 includes a summary of the Tc-99 activities in the Northeast Plume EWs. Figure B.4 shows the estimated cumulative amount of TCE removed since the NEPCS began operations in 1997. Figures B.5 through B.14, presented in Appendix B, show TCE concentrations and Tc-99 activities in upgradient transect wells, MWs near the EWs, downgradient wells, distal downgradient wells, and wells near the C-400 Complex. The EWs are working well to increase TCE mass removal and to enhance control of the plume. This is shown in Figure B.4 in Appendix B with an increase in mass removal beginning in October 2017, with initiation of pumping from the optimized EWs.

During this reporting period, the FFA parties reviewed and assessed the Northeast Plume TCE and Tc-99 transect well results on a quarterly basis. The analytical results can be found in Appendix B, along with analytical results for other NEPCS MWs. This information is used by the FFA parties when considering if additional adjustments are needed to minimize undesirable expansion of high concentrations of Tc-99 and TCE within the Northeast Plume. As agreed to by the FFA parties, 100 gal per minute and 75 gal per minute are the target flowrates for EW234 and EW235, respectively. The NEPCS continues to operate under Condition #3 of the *Memorandum of Agreement for Resolution of Formal Dispute of the Explanation of Significant Differences to the Record of Decision for the Interim Remedial Action of the Northeast Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky (DOE/LX/07-1291&D2)*, and *Remedial Action Work Plan for Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky (DOE/LX/07-1280&D2)*.

**F) Modification of the NEPCS Operations or Configuration:**

- None.

**G) See Section V for work related to document preparation and review.**

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

- Continue to conduct and document the necessary tasks required for equipment maintenance, calibration, and operation as specified in the *Operation and Maintenance Plan for the Northeast Plume Containment System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2470&D1*.
- Provide TCE and Tc-99 transect MW sampling results to EPA and KDEP on a quarterly basis.

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

- Reporting responsibility for the work to be performed in support of the Northeast Plume IRA belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

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

- The effluent concentration goal of 30 µg/L for TCE was met during the reporting period. The NEPCS remained operational 99.5% 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, 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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- Actual costs for O&M of the Northwest and Northeast Plume facilities are tracked jointly. The total operating cost for the reporting period was approximately \$410,000.

**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026<sup>5</sup>**

**GROUNDWATER OPERABLE UNIT PROJECT: Northwest Plume IRA**

Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the Northwest Plume IRA will be incorporated into the CSOU.

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

- Treated 52,524,846 gal of contaminated groundwater, with an average monthly operational efficiency of 99.7% during this reporting period. The average system treatment rate for the reporting period was approximately 198 gal per minute. Operational efficiencies for the reporting period were as follows: July 2025, 99.9%; August 2025, 99.8%; September 2025, 98.8%; October 2025, 99.7%; November 2025, 100%; and December 2025, 100%.

**A) Process Operations:**

The Northwest Plume Groundwater System (NWPGS) consists of two EWs (EW232 and EW233), located just north of the Paducah Site, and underground transfer pipeline for moving comingled groundwater from the EWs to the C-612 treatment facility. The treatment facility has an operational capacity of 220 gal per minute and utilizes air stripping for removal of TCE in groundwater, ion exchange for removal of Tc-99 in groundwater, and vapor phase carbon for capturing TCE from the exhaust of the air stripper. Treated groundwater is released to a tributary that flows to Kentucky Pollutant Discharge Elimination System Outfall 001. A MW network is used to evaluate performance and effectiveness of the optimized EWs.

**B) Process Testing:**

Operation of the NWPGS began on August 28, 1995. As of December 31, 2025, the NWPGS has processed a total of approximately 3,035,503,477 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, there is a three-month lag in the analytical data and operational data. Graphs in this report present data through December 2025. Data are available in PEGASIS.

Figure B.15, included in Appendix B, shows locations of the Northwest Plume MWs. Influent TCE and Tc-99 analytical data are presented in Appendix B on Figures B.16 and B.17.

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<sup>5</sup> See Note No. 3.

Figures B.18 and B.19 include a summary of the TCE and Tc-99 concentrations of the effluent versus time at the NWPGS. Figure B.20 shows the cumulative estimated amount of TCE removed since the NWPGS began operations in 1995. The influent sample results, compared to the NWPGS effluent results, indicated that the NWPGS continues to remove TCE and Tc-99 effectively.

For radionuclides, all reported values, including negative values, are used to derive averages. Negative Tc-99 results may be reported due to a statistical determination of the counts seen by a detector, minus a background count. High, low, and average treatment facility influent and effluent TCE and Tc-99 concentrations from July 1, 2025, through December 31, 2025, are presented in Table 5.

**Table 5. TCE and Tc-99 Concentrations at the C-612 Treatment Facility for Northwest Plume (July 1, 2025, through December 31, 2025)**

	TCE (µg/L)			Tc-99 (pCi/L)		
	High	Low	Average	High	Low	Average
Influent from EW232 and EW233 (combined)	108	51.7	75.5	311	250	271.6
Effluent from C-612 NW Plume treatment facility	< 1*	< 1*	< 1*	49.7	28.1	39.4

\*The values denoted are below the detection limit.

The treatment system influent was sampled monthly. The effluent was sampled weekly. These sampling frequencies were conducted in accordance with the *Operation and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2469&D2*. As presented in Table 5, the NWPGS continued to remove TCE and Tc-99 effectively. The system operated with an average removal efficiency of 98.7% for TCE and 85.5% for Tc-99.

The average TCE effluent concentration for this reporting period was less than 1 µg/L, which is less than the treatment goal of 5 µg/L. The average Tc-99 effluent value was 39.4 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 6. EW232 and EW233 were sampled quarterly in accordance with the *Operation and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2469&D2*.

**Table 6. TCE and Tc-99 Concentrations for Northwest Plume Extraction Wells (July 1, 2025, through December 31, 2025)**

	TCE (µg/L)			Tc-99 (pCi/L)		
	High	Low	Average	High	Low	Average
EW232	98	59.8	74.7	75.8	34.4	49.8
EW233	85.3	10.5	47.9	524	432	478

**D) Treatment Media:**

**Ion Exchange Resins:**

The NWPGS is equipped with four ion exchange columns used for Tc-99 removal. Purolite® A520E resin is used in the columns, which are arranged in a lead/lag configuration in a trailer. The ion exchange resin is changed out as needed.

**Activated Carbon Media:**

The NWPGS is equipped with two carbon columns that contain granular activated carbon for absorption of VOCs from the vapor-phase effluent of the air stripper unit. The *Operation and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2469&D2, requires that spent carbon be replaced every six months. The last carbon changeout was completed on March 11, 2026. The next carbon changeout is projected for September 2026.

**E) Maintenance Activities:**

**Routine Maintenance Activities:**

Daily, monthly, quarterly, and annual routine maintenance activities were conducted in accordance with the *Northwest/Northeast Plume Daily Operational Data Collection and Maintenance*, CP4-ER-0017, and *Monthly, Quarterly and Annual Maintenance at the C-612 Northwest Plume Groundwater System*, CP4-ER-0016.

- The NWPGS was shut down for a total of 12.0 hours for planned maintenance activities.

**Non-routine Maintenance Activities:**

- The NWPGS was shut down for a total of 1.25 hours for the repair of failed components and unexpected power disruptions.

**F) Effectiveness Monitoring—Monitoring Well Results:**

Figures B.21 through B.30 presented in Appendix B, show TCE and Tc-99 concentrations in EWs and nearby MWs from 2021 through December 2025.

**G) Modification of the NWPGS Operations or Configuration:**

- None.

**H) See Section V for work related to document preparation and review.**

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

- Continue to conduct and document the necessary tasks required for equipment maintenance, calibration, and operation, as specified in the *Operation and Maintenance Plan for the*

*Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2469&D2.*

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

- Reporting responsibility for the work to be performed in support of the Northwest Plume IRA belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

**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 maintained an average monthly operational efficiency of 99.7% 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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- Actual costs for O&M of the Northwest and Northeast Plume facilities are tracked jointly. The total operating cost for the reporting period was approximately \$410,000.

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**BURIAL GROUNDS OPERABLE UNIT**

The scope of the BGOU includes a remedial investigation, 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 (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, respectively). Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the BGOU will be incorporated into the Environmental Media Sitewide OU.

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*, DOE/OR/06-1351&D1, signed in 1995.

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**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):**
- Continued groundwater monitoring at the C-749 Uranium Burial Ground (SWMU 2), 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. Appendix E contains figures depicting the C-749 Uranium Burial Ground (SWMU 2) groundwater MW locations and a summary of the SWMU 2 trends for TCE and Tc-99 for a period of five years. All groundwater data are available in PEGASIS and, therefore, have not been summarized in this report.
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):**
- Continue groundwater monitoring 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.
- III. Identity and assigned tasks of DOE contractors for work to be performed for this project:**
- Reporting responsibility for the work to be performed in support of the C-749 Uranium Burial Ground belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE 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.

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<sup>6</sup> See Note No. 3.

**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:**

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

**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 for this project is not tracked separately.

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**SURFACE WATER OPERABLE UNIT**

The SWOU includes the Surface Water Removal Action and Surface Water Remedial Action projects. O&M is performed on North-South Diversion Ditch Sections 1 and 2 and institutional controls, as required by the *Operation and Maintenance Plan for Sections 1 and 2 of the North-South Diversion Ditch at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2484&D2*, and *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/OR/07-1904&D1/R2*; and O&M activities for the C-613 Sedimentation Basin are maintained in accordance with the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/OR/07-2044&D1/R5*, respectively. Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026, DOE/LX/07-2526&D2*, all future scope associated with the Surface Water OU will be incorporated into the Environmental Media Sitewide OU.

Per the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/OR/07-2044&D1/R5*, the relationship of turbidity to total suspended solids is compared on a quarterly basis. An update to the existing linear regression model was performed in January 2026, and the current maximum discharge limit for turbidity is 89 nephelometric turbidity units (NTUs), with a 30-day average not to exceed 41 NTUs.

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**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):**

- Conducted inspections in accordance with the *Land Use Control Implementation Plan for the North-South Diversion Ditch at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1949&D2/R2.
- Conducted inspections for Environmental Indicator signs and Institutional Control measures in October 2025 in accordance with the *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1904&D1/R2.
- Received EPA and KDEP comments on the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R5, on October 8, 2025, and October 10, 2025, respectively.
- Revised and submitted the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R5, on November 20, 2025.
- Received EPA and KDEP concurrence on the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R5, on November 20, 2025, and November 24, 2025, respectively.
- Conducted inspections of the C-613 Sedimentation Basin in accordance with the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R5.
- Performed maintenance activities in accordance with the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R5.

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

- Conduct inspections of the C-613 Sedimentation Basin in accordance with the *Operation and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R5.

- Conduct inspections in accordance with the *Land Use Control Implementation Plan for the North-South Diversion Ditch at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1949&D2/R2.
- Conduct inspections for Environmental Indicator signs and Institutional Control measures in accordance with the *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1904&D1/R2.

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

- Reporting responsibility for the work to be performed in support of the SWOU Remedial Action belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

**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 for the SWOU consistent with the SMP and as agreed to by the FFA parties.

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- O&M activities have been incorporated into the Environmental Monitoring Program. O&M cost for this project is not tracked separately.

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**CERCLA WASTE DISPOSAL ALTERNATIVES OPERABLE UNIT**

The scope of the WDA OU includes an update to the remedial investigation and evaluation of remedial alternatives, development of a decision document, as well as the design and implementation of an on-site waste disposal facility (OSWDF) for disposal options of CERCLA waste generated by removal and remedial actions. Accordingly, the scope of the remedial investigation/feasibility study will be focused and tailored to the nature of this project; potential releases will not be investigated, evaluated, and/or remediated. The decision about whether to implement an OSWDF will be documented in a ROD.

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**CERCLA WASTE DISPOSAL ALTERNATIVES OPERABLE UNIT PROJECT:  
CERCLA Waste Disposal Alternatives Evaluation**

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

- Received KDEP comment on the *Geotechnical Sampling and Analysis Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2507&D1/R1, on October 9, 2025.
- Received KDEP concurrence on the revision to the *Geotechnical Sampling and Analysis Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2507&D1/R1, on October 10, 2025.
- Continued development of an addendum to the *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2/R2/A1.<sup>7</sup>
- Continued collection of geotechnical and geophysical data in accordance with the *Geotechnical Sampling and Analysis Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2507&D1/R1.

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

- Continue development of an addendum to the *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2/R2/A1.
- Continue collection of geotechnical and geophysical data in accordance with the *Geotechnical Sampling and Analysis Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2507&D1/R1.

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

- Reporting responsibility for the work to be performed in support of the CERCLA WDA evaluation belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

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<sup>7</sup> The *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2/R2, was previously approved by EPA and KDEP in 2018.

**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:**

- *Geotechnical Sampling and Analysis Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2507&D1/R1, was under review and concurred on by KDEP.
- An addendum to the *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2/R2/A1, was under development during this reporting period.

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- None.

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**ENVIRONMENTAL MEDIA SITEWIDE OPERABLE UNIT**

In 2023, DOE proposed to integrate and accelerate Paducah Site cleanup decisions for environmental media, D&D, and waste disposition. This new cleanup strategy for the site was discussed among the FFA parties in late FY 2023 and is documented in the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky Annual Revision—FY 2026*, DOE/LX/07-2526&D2. The three remedial investigations/feasibility studies, proposed plans, and RODs are proposed for submittal in 2029 (or earlier). Environmental Media Sitewide OU ROD will propose and combine cleanup actions for at and below grade features (e.g., slabs, utilities, basement structures), soils, surface water, C-400 confirmed/probable DNAPL, slabs, lagoons, and burial grounds into a single, final decision, establishing final cleanup levels for the entire Paducah Site based on anticipated future use.<sup>8</sup>

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<sup>8</sup> Scope does not include groundwater for the Northeast Plume (interim ROD transition through final remedy), Northwest Plume (interim ROD transition through final remedy), dissolved-phase plumes (as identified in the SMP), and Water Policy (removal action transition through final remedy).

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**ENVIRONMENTAL MEDIA SITEWIDE OPERABLE UNIT PROJECT:  
Environmental Media Remedial Investigation/Feasibility Study**

- I. Work performed during this reporting period (including summaries of findings and any deviations from the work plan):**
- Continued scoping meetings for the *Environmental Media Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2519&D1*, with EPA and KDEP.
  - Received KDEP concurrence on the *Scoping Document and Work Plan for the Environmental Media Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2515&D2*, on October 13, 2025.
  - Continued development of the *Environmental Media Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2519&D1*.
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):**
- Continue scoping meetings for the *Environmental Media Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2519&D1*, with EPA and KDEP.
  - Continue development of the *Environmental Media Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2519&D1*.
- III. Identity and assigned tasks of DOE contractors for work to be performed for this project:**
- Reporting responsibility for the work to be performed in support of the Environmental Media remedial investigation/feasibility study belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.
- 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:**

- *Scoping Document and Work Plan for the Environmental Media Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2515&D2*, was under review and was concurred on by KDEP during this reporting period. (EPA concurred on the *Scoping Document and Work Plan for the Environmental Media Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2515&D2*, during the previous reporting period.)
- *Environmental Media Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2519&D1*, was under development during this reporting period.

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- None.

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**DEACTIVATION AND DECOMMISSIONING OPERABLE UNIT**

In 2023, DOE proposed to integrate and accelerate Paducah cleanup decisions for environmental media, D&D, and waste disposition. This new cleanup strategy for the site was discussed among the FFA parties in late FY 2023 and is documented in the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky Annual Revision—FY 2026*, DOE/LX/07-2526&D2. The three remedial investigations/feasibility studies, proposed plans, and RODs are proposed for submittal in 2029 (or earlier). The scope of the sitewide D&D ROD will include D&D of the above grade portion of structures at the Paducah Site. Deactivation is the process of placing a facility in a safe and stable condition that is protective of workers, the public, and the environment until decommissioning is completed. Decommissioning includes activities that take place after a facility has been deactivated and can include decontamination and dismantlement. The sitewide D&D ROD will propose and combine all above grade structures into a single final decision (incorporating deactivation following the FFA/CERCLA process, as defined in the ROD).

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**DEACTIVATION AND DECOMMISSIONING OPERABLE UNIT PROJECT:  
Deactivation and Decommissioning Remedial Investigation/Feasibility Study**

- I. Work performed during this reporting period (including summaries of findings and any deviations from the work plan):**
- Received KDEP concurrence on the *Scoping Document and Work Plan for the Deactivation and Decommissioning Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2514&D2, on October 14, 2025.
  - Continued development of the *Deactivation and Decommissioning Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2520&D1.
  - Initiated development of the *Deactivation and Decommissioning Proposed Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2531&D1.
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):**
- Finalize and submit the *Deactivation and Decommissioning Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2520&D1.
  - Continue development of the *Deactivation and Decommissioning Proposed Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2531&D1.
- III. Identity and assigned tasks of DOE contractors for work to be performed for this project:**
- Reporting responsibility for the work to be performed in support of the D&D remedial investigation/feasibility study belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.
- 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:**

- *Scoping Document and Work Plan for the Deactivation and Decommissioning Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2514&D2, was under review and concurred on by KDEP during this reporting period. (EPA concurred on the Scoping Document and Work Plan for the Deactivation and Decommissioning Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2514&D2, during the previous reporting period.)*
- *Deactivation and Decommissioning Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2520&D1, was under development during this reporting period.*
- *Deactivation and Decommissioning Proposed Plan at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2531&D1, was under development during this reporting period.*

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

- *The Deactivation and Decommissioning Remedial Investigation/Feasibility Study Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2520&D1, is due to EPA and KDEP no later than July 6, 2026.*

**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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- None.

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**WATER POLICY**

Pursuant to the June 1994 *Action Memorandum for the Water Policy at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/06-1201&D2, that was approved by EPA in August 1994, municipal water service was offered at no cost to all existing private residences and businesses within the Water Policy-affected area. The affected area is defined as follows:

The affected area is generally bounded by the Ohio River to the north, DOE property boundary to the south, Metropolis Lake Road to the east, and Bethel Church Road to the west. Specifically, on the west side, the boundary follows the DOE property boundary northwest to the intersection with Big Bayou Creek. At that point, it moves west to the intersection of Bethel Church Road and the centerline of a powerline easement just south of Bobo Lane. Property fronting the north end of Bethel Church Road is included in the affected area north of the intersection with the powerline easement to the Ohio River. Specifically, on the east side, the boundary follows the DOE property boundary northwest to the southern point of private property that fronts Ogden Landing Road (identified in McCracken County Property Valuation Office records as #20-27-1A). At that point, it moves east along the southern edge of properties that front the south side of Ogden Landing Road to the intersection of Ogden Landing Road with Metropolis Lake Road. Property fronting on both sides of Metropolis Lake Road is included in the affected area north of this intersection of the roads to the Ohio River.

There are approximately 116 acres within the Water Policy-affected area (i.e., excluding DOE property) that lie over the 2024 TCE groundwater plume (*Trichloroethene and Technetium-99 Groundwater Contamination in the Regional Gravel Aquifer for Calendar Year 2024 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0380) above the 5 µg/L maximum contaminant level (MCL); approximately 77 acres are owned by either West Kentucky Wildlife Management Area or the Tennessee Valley Authority, and approximately 39 acres are owned by private residents or businesses. Previously there were 137 acres of land owned by private residents or businesses that were above the 5 µg/L MCL overlaying the 2022 TCE groundwater plume. DOE has implemented various water policy activities that ensure proper management of the Water Policy and assist in DOE's long-term protectiveness of residents and businesses located within the Water Policy-affected area. These activities include the following: (1) update water policy area information by maintaining accounts with the online McCracken County and Ballard County Property Valuation Administrator (PVA) offices and verifying land ownership with the PVA offices; (2) review the monthly billing register, ensuring water bill payments and assessing trends; (3) manage license agreements; (4) provide sampling results; (5) provide an annual water policy educational fact sheet to all residents and businesses within the affected area; (6) perform annual cap and lock inspections; and (7) demonstrate, on an annual basis, that residents and businesses located over the groundwater plume are not utilizing the groundwater. Consistent with the approved *Site Management Plan Paducah Gaseous Diffusion Plant Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, all future scope associated with the Water Policy will be incorporated into the CSOU.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026<sup>9</sup>**

**PROJECT: Water Policy**

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

**License Agreements:**

- Offered 12 license agreements during this reporting period. Eight license agreements have been signed by the landowners. One license agreement that was sent during the previous reporting period was signed by the landowner during this reporting period. As of March 31, 2026, 114 of 125 parcels within the Water Policy-affected area are inhabitable (i.e., house or mobile/manufactured home with active municipal water). A total of 94% of the inhabitable parcels (107 signed licenses of the 114 inhabitable parcels) are covered by a license agreement. There are eight parcels that overlie the current groundwater plumes in the Water Policy-affected area (i.e., excluding DOE property). One hundred percent of these parcels are under a license agreement.
- All parcel owners have been offered license agreements.

**Water Bills:**

- Reviewed all water bills for properties that DOE pays and noted no significant trends during this reporting period.

***Water Policy Educational Fact Sheet Mailer:***

- Developed and submitted the *Water Policy Educational Fact Sheet* mailer to EPA and KDEP on January 20, 2026.
- Received EPA and KDEP approval of the *Water Policy Educational Fact Sheet* mailer on February 5, 2026, and February 6, 2026, respectively.
- Issued the *Water Policy Educational Fact Sheet* mailer to area residents on February 26, 2026, and made the fact sheet available to the public in the Paducah EIC on March 3, 2026.

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<sup>9</sup> See Note No. 3.

### **Demonstration that Residents in the Water Policy-Affected Area Are Protected:**

- Continued work on annual demonstration that residents, including those residing on parcels located over the contaminated groundwater plume, are not accessing groundwater from any residential well located within the Water Policy-affected area. This demonstration included the following:
  - Continued monthly review of water bills to ensure no downward trends in usage that could indicate that property owners are using groundwater instead of municipal water. This review includes the eight parcels that currently lie over the 5 µg/L or greater portion of the 2024 TCE groundwater plumes. No issues were identified during this review.
  - Reviewed the Kentucky Geological Survey water well database and ensured that no additional groundwater wells have been installed in the area, which included the area over the 5 µg/L or greater portion of the TCE groundwater plumes, as delineated for 2024. No issues were identified during this review.
  - Received and reviewed the Kentucky Division of Water well notification report, which includes scans for newly submitted drilling logs for any water wells drilled within the area. No issues were identified during this review.
  - Conducted visual assessments (i.e., drive-bys, Google Earth images) of parcels overlying or immediately adjacent to the 5 µg/L or greater portion of the TCE groundwater plumes, as delineated for 2024. No issues were identified during these assessments.
  - Performed semiannual verification of land ownership by reviewing the PVA website in December 2025. No issues were identified during this assessment. Updated ownership list and emailed to KDEP on January 8, 2026.

### **Cap and Lock Inspection:**

- Conducted the annual inspection of the caps and locks installed on residential wells located on parcels with current license agreements. During the inspections, one residential well was missing a lock on the lower metal pin of the well. The lower pin does not allow well access; however, the lower pin is necessary to keep well equipment in place. A lock was applied to the lower pin on the well on October 27, 2025.

### **Monitoring:**

- Routine monitoring was conducted in accordance with the following documents:
  - *Operation and Maintenance Plan for the Northeast Plume Containment System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2470&D1*; and
  - *Operation and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2469&D2*.
- Data collected in support of water policy monitoring will be made available in PEGASIS once data have been reported to the landowners.

**Northeast:**

- Nine MWs and seven residential wells are monitored routinely in accordance with the *Operation and Maintenance Plan for the Northeast Plume Containment System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2470&D1.*

Sampled three MWs in November 2025 during this reporting period. Analytical data for three MWs sampled in September 2025, during the previous reporting period, have been included in this report. All MWs sampled in September 2025 and November 2025 did not exhibit detections greater than the MCL for TCE (5 µg/L).

- Sampled seven residential wells in December 2025 during this reporting period. All seven samples, including a duplicate sample at R21, were reported as nondetect for TCE.

**Northwest:**

- Thirteen MWs and five residential wells are monitored routinely in accordance with the *Operation and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2469&D2.* (Note: Tc-99 was added as a result of the *Memorandum of Agreement for Resolution of Informal Dispute Concerning U.S. Environmental Protection Agency and Kentucky Department for Environmental Protection Requirements for Additional Actions or Modifications Regarding the CY 2018 Five-Year Review for Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2426&D2*, dated June 22, 2020.)

- Sampled 13 MWs and five residential wells in November 2025, December 2025, and February 2026, during this reporting period, in accordance with the Water Policy Boundary Monitoring Program per the Environmental Monitoring Plan. Analytical data for MWs and residential wells sampled in August 2025, during the previous reporting period, have been included in this report. All MWs (including duplicate samples from MW134, MW201, and MW432) and residential wells sampled in August 2025, during the previous reporting period, and in November 2025, and December 2025 were below the MCL for TCE (5 µg/L). None of the MWs or residential wells sampled in August 2025, November 2025, and December 2025 exhibited detections of Tc-99. Analytical data are pending for samples collected in February 2026.

Sampled residential well R40 in December 2025 and February 2026 during this reporting period. Analytical data for R40 sampled in August 2025, during the previous reporting period, have been included in this report. The samples collected in August 2025 had results less than the MCL for vinyl chloride and TCE. The samples collected in December 2025 had results less than the MCL for TCE. Analytical data are pending for the samples collected in February 2026.

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

**Demonstration that Residents in the Water Policy-Affected Area Are Protected:**

- Continue monthly review of the area water bills and ensure no downward trends in usage that could indicate that property owners are using groundwater instead of municipal water. This

review includes the eight parcels that currently lie over the 5 µg/L or greater portion of the 2024 TCE groundwater plumes.

- Perform semiannual verification of land ownership by reviewing the PVA website in June 2026.
- Receive and review the Kentucky Division of Water well notification report, which includes scans for newly submitted drilling logs for any water wells drilled within the area.
- Conduct visual assessments (i.e., drive-bys, Google Earth images) of properties overlying or immediately adjacent to the 5 µg/L or greater TCE groundwater plumes, as delineated for 2024.

**Monitoring:**

- Continue routine monitoring and reporting in accordance with the *Operation and Maintenance Plan for the Northeast Plume Containment System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2470&D1*; and the *Operation and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2469&D2*.

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

- Reporting responsibility for the work to be performed in support of the Water Policy belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

**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:**

- *Water Policy Educational Fact Sheet* mailer was finalized, and the document was under EPA and KDEP review during this reporting period.

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- Water bill payments are included in DOE's annual operating budget for the Paducah Site.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**ADDITIONAL REPORTING**

Presented in this Additional Reporting section are updates for the following:

- WAGs 1 and 7 (C-746-K Landfill, TCE Spill Sites, Underground Storage Tanks, and Kentucky Ordnance Works sites);
- CRP;
- SMP; and
- CERCLA Five-Year Review.

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**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026<sup>10</sup>**

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

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

- Continued monitoring around the C-746-K Landfill, as required by the *Record of Decision for Waste Area Groups 1 and 7 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/06-1470&D3. Appendix C contains a map depicting MW locations for the C-746-K Landfill and graphical presentations of TCE concentrations in these wells over time.
- Conducted inspections of warning signs, riprap, and deed notice/restrictions at the C-746-K Landfill, as required by the *Record of Decision for Waste Area Groups 1 and 7 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/06-1470&D3.

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

- Monitoring will continue around C-746-K Landfill, as required by the ROD. This monitoring is conducted and reported in accordance with other site programs, such as the Environmental Monitoring Program.

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

- Reporting responsibility for the work to be performed in support of WAGs 1 and 7 belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

**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:**

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<sup>10</sup> See Note No. 3.

- 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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- Sampling activities for the C-746-K Landfill have been incorporated into the Environmental Monitoring Program. O&M cost for this project is not tracked separately.

**FEDERAL FACILITY AGREEMENT**

**SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**PROJECT: Community Relations Plan**

- I. Work performed during this reporting period (including summaries of findings and any deviations from the work plan):**
- Initiated development of the *Community Relations Plan under the Federal Facility Agreement at the U.S. Department of Energy Paducah Gaseous Diffusion Plant, DOE/LX/07-2529&D1.*
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):**
- Finalize and submit the *Community Relations Plan under the Federal Facility Agreement at the U.S. Department of Energy Paducah Gaseous Diffusion Plant, DOE/LX/07-2529&D1,* to EPA and KDEP on or before June 30, 2026.
- III. Identity and assigned tasks of DOE contractors for work to be performed for this project:**
- Reporting responsibility for the work to be performed in support of the CRP belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.
- 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:**
- *Community Relations Plan under the Federal Facility Agreement at the U.S. Department of Energy Paducah Gaseous Diffusion Plant, DOE/LX/07-2529&D1,* was under development during this reporting period.
- B) Due dates for completion of review/modification tasks:**
- *Community Relations Plan under the Federal Facility Agreement at the U.S. Department of Energy Paducah Gaseous Diffusion Plant, DOE/LX/07-2529&D1,* is due to EPA and KDEP on June 30, 2026.

**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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- None.

**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**PROJECT: Site Management Plan**

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

- Finalized and submitted the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D1, to EPA and KDEP on November 12, 2025.
- Received KDEP and EPA comments on the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D1, on November 19, 2025, and December 5, 2025, respectively.
- Developed and submitted the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, to EPA and KDEP on December 18, 2025.
- Received EPA and KDEP concurrence on the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026*, DOE/LX/07-2526&D2, on December 18, 2025, and December 23, 2025, respectively.

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

- Initiate scoping meetings for the *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2027*, with EPA and KDEP in June 2026.

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

- Reporting responsibility for the work to be performed in support of the SMP belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.

**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:**

- *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky Annual Revision—FY 2026, DOE/LX/07-2526&D1*, was under development and the document was under review by EPA and KDEP during this reporting period.
- *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2026, DOE/LX/07-2526&D2*, was under development, and the document was under review and concurred on by EPA and KDEP during this reporting period.

**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:**

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

**VIII. Changes in relevant personnel:**

- None.

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

- None.

**FEDERAL FACILITY AGREEMENT  
SEMIANNUAL PROGRESS REPORT  
FIRST HALF OF FISCAL YEAR 2026**

**Facility: Paducah Gaseous Diffusion Plant  
Plant EPA I.D. No.: KY8-890-008-982  
Reporting Period: 10/1/2025–3/31/2026**

**PROJECT: CERCLA Five-Year Review**

- I. Work performed during this reporting period (including summaries of findings and any deviations from the work plan):**
- No activities were performed for this project during this reporting period.
- II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):**
- 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:**
- Reporting responsibility for the work to be performed in support of the Five-Year Review belongs to FRNP. FRNP also provides programmatic and technical support, analytical services, and business management services. NWD manages the AR and the EIC for DOE.
- 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:**
- 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 project managers, FFA senior managers, local elected officials, and/or congressional staff.

**VIII. Changes in relevant personnel:**

- None.

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

- None.

**APPENDIX A**

**NORTHEAST AND NORTHWEST PLUME  
WATER WITHDRAWAL REPORTS**

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**Table A.1. Northeast Plume Containment System Water Withdrawal Reporting Form  
(Gal of Water Pumped)**

<b>Day</b>	<b>July 2025</b>	<b>August 2025</b>	<b>September 2025</b>	<b>October 2025</b>	<b>November 2025</b>	<b>December 2025</b>
<b>1</b>	246,723	249,968	251,786	250,894	252,432	252,773
<b>2</b>	242,361	249,968	251,788	257,905	252,432	250,615
<b>3</b>	252,244	249,968	237,691	253,317	252,428	252,010
<b>4</b>	252,244	249,967	258,687	253,317	250,470	244,387
<b>5</b>	252,244	270,173	250,892	253,317	248,043	254,266
<b>6</b>	252,244	231,575	250,892	253,319	266,115	254,266
<b>7</b>	252,244	261,931	250,892	246,810	249,890	254,266
<b>8</b>	248,195	247,059	250,889	248,255	249,890	254,264
<b>9</b>	251,491	247,059	252,335	263,969	249,890	240,810
<b>10</b>	257,491	247,059	252,407	250,104	249,889	252,289
<b>11</b>	247,215	247,056	249,114	250,104	248,689	263,766
<b>12</b>	247,215	220,550	249,806	250,104	249,592	249,409
<b>13</b>	247,215	250,981	249,806	250,103	243,283	249,409
<b>14</b>	247,213	259,258	249,806	248,465	254,898	249,409
<b>15</b>	244,852	251,436	249,807	252,976	254,898	249,411
<b>16</b>	289,126	251,436	252,429	255,645	254,898	249,446
<b>17</b>	221,473	251,436	245,874	252,095	254,896	266,635
<b>18</b>	233,071	251,436	262,447	252,095	261,340	247,700
<b>19</b>	233,071	248,906	229,452	252,095	236,525	254,032
<b>20</b>	233,071	242,389	229,452	252,095	244,448	254,032
<b>21</b>	233,067	250,769	229,452	254,370	254,839	254,032
<b>22</b>	239,468	252,824	229,451	245,484	254,839	254,033
<b>23</b>	256,512	252,824	238,339	262,911	254,839	255,561
<b>24</b>	251,542	252,824	251,911	249,950	254,838	249,745
<b>25</b>	253,574	252,822	247,343	249,950	251,343	249,745
<b>26</b>	253,574	256,184	255,819	249,950	252,773	249,745
<b>27</b>	253,574	246,014	255,819	249,949	252,773	249,745
<b>28</b>	253,575	250,263	255,819	260,013	252,773	249,745
<b>29</b>	240,876	251,786	255,818	240,619	252,773	249,743
<b>30</b>	265,925	251,786	237,373	266,894	252,773	265,443
<b>31</b>	245,310	251,786		252,432		244,388
<b>Monthly Total</b>	7,698,000	7,749,493	7,433,396	7,829,506	7,559,509	7,815,120
<b>Daily Average</b>	248,323	249,984	247,780	252,565	251,984	252,101

**Total (July 2025–December 2025) = 46,085,024 gal**  
**Average (July 2025–December 2025) = 250,462 gal per day (gpd)**

**Table A.2. Northwest Plume Groundwater System Water Withdrawal Reporting Form  
(Gal of Water Pumped)**

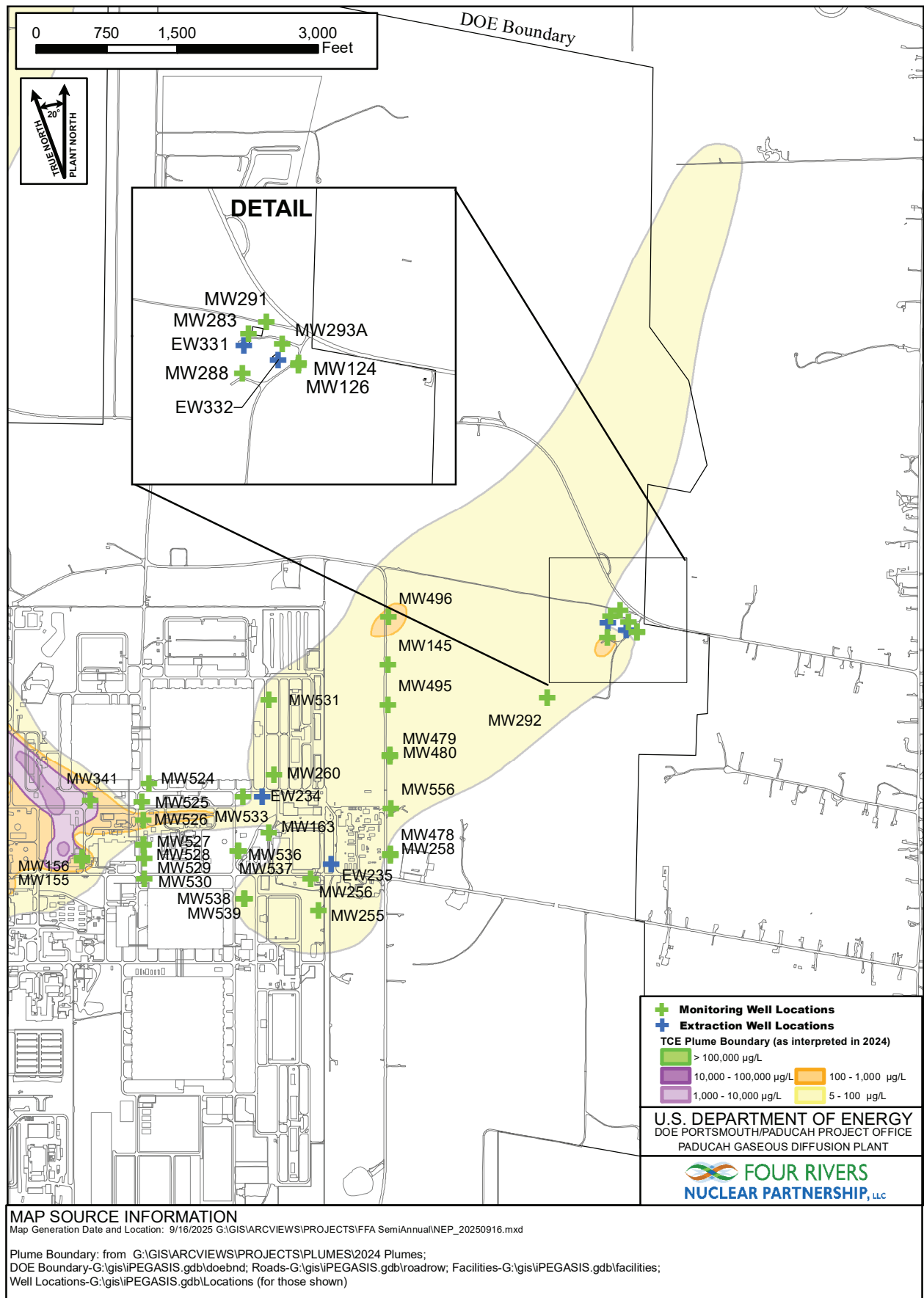
<b>Day</b>	<b>July 2025</b>	<b>August 2025</b>	<b>September 2025</b>	<b>October 2025</b>	<b>November 2025</b>	<b>December 2025</b>
<b>1</b>	282,029	288,025	289,004	286,610	287,048	285,620
<b>2</b>	283,866	288,025	289,004	286,950	287,048	285,060
<b>3</b>	287,296	288,025	280,000	287,198	287,046	284,090
<b>4</b>	287,296	288,025	288,400	287,198	285,380	292,930
<b>5</b>	287,296	294,320	288,275	287,198	282,980	283,373
<b>6</b>	287,296	280,880	288,275	287,196	292,300	283,373
<b>7</b>	287,296	278,310	288,275	282,930	284,468	283,373
<b>8</b>	286,556	288,606	288,275	286,110	284,468	283,371
<b>9</b>	284,173	288,606	282,700	289,230	284,468	284,220
<b>10</b>	281,336	288,606	281,550	285,855	284,466	284,790
<b>11</b>	287,544	288,602	287,470	285,855	283,930	290,610
<b>12</b>	287,544	275,670	287,000	285,855	284,200	284,090
<b>13</b>	287,544	284,590	287,000	285,855	286,300	284,090
<b>14</b>	287,542	294,480	287,000	284,040	285,518	284,090
<b>15</b>	285,426	287,643	287,000	272,880	285,518	284,090
<b>16</b>	288,406	287,643	286,310	273,980	285,518	283,950
<b>17</b>	251,960	287,643	241,600	286,220	285,516	289,090
<b>18</b>	288,908	287,641	249,520	286,220	284,790	285,200
<b>19</b>	288,908	285,080	282,363	286,220	284,170	286,463
<b>20</b>	288,908	287,670	286,863	286,220	286,510	286,463
<b>21</b>	288,906	286,180	286,863	286,730	285,430	286,463
<b>22</b>	283,070	288,065	286,861	283,050	285,430	286,461
<b>23</b>	292,220	288,065	279,360	291,770	285,430	286,540
<b>24</b>	287,850	288,065	287,370	284,850	285,430	285,077
<b>25</b>	290,676	288,065	280,970	284,850	284,870	285,077
<b>26</b>	290,676	289,930	287,368	284,850	285,622	285,077
<b>27</b>	290,676	286,200	287,368	284,850	285,622	285,077
<b>28</b>	290,672	286,580	287,368	287,790	285,622	285,077
<b>29</b>	288,650	289,004	287,366	282,380	285,622	285,075
<b>30</b>	286,000	289,004	277,390	286,150	285,622	283,360
<b>31</b>	287,230	289,004		287,048		278,570
<b>Monthly Total</b>	8,873,756	8,906,252	8,494,168	8,844,138	8,566,342	8,840,190
<b>Daily Average</b>	286,250	287,298	283,139	285,295	285,545	285,167

**Total (July 2025–December 2025) = 52,524,846 gal**  
**Average (July 2025–December 2025) = 285.461 gpd**

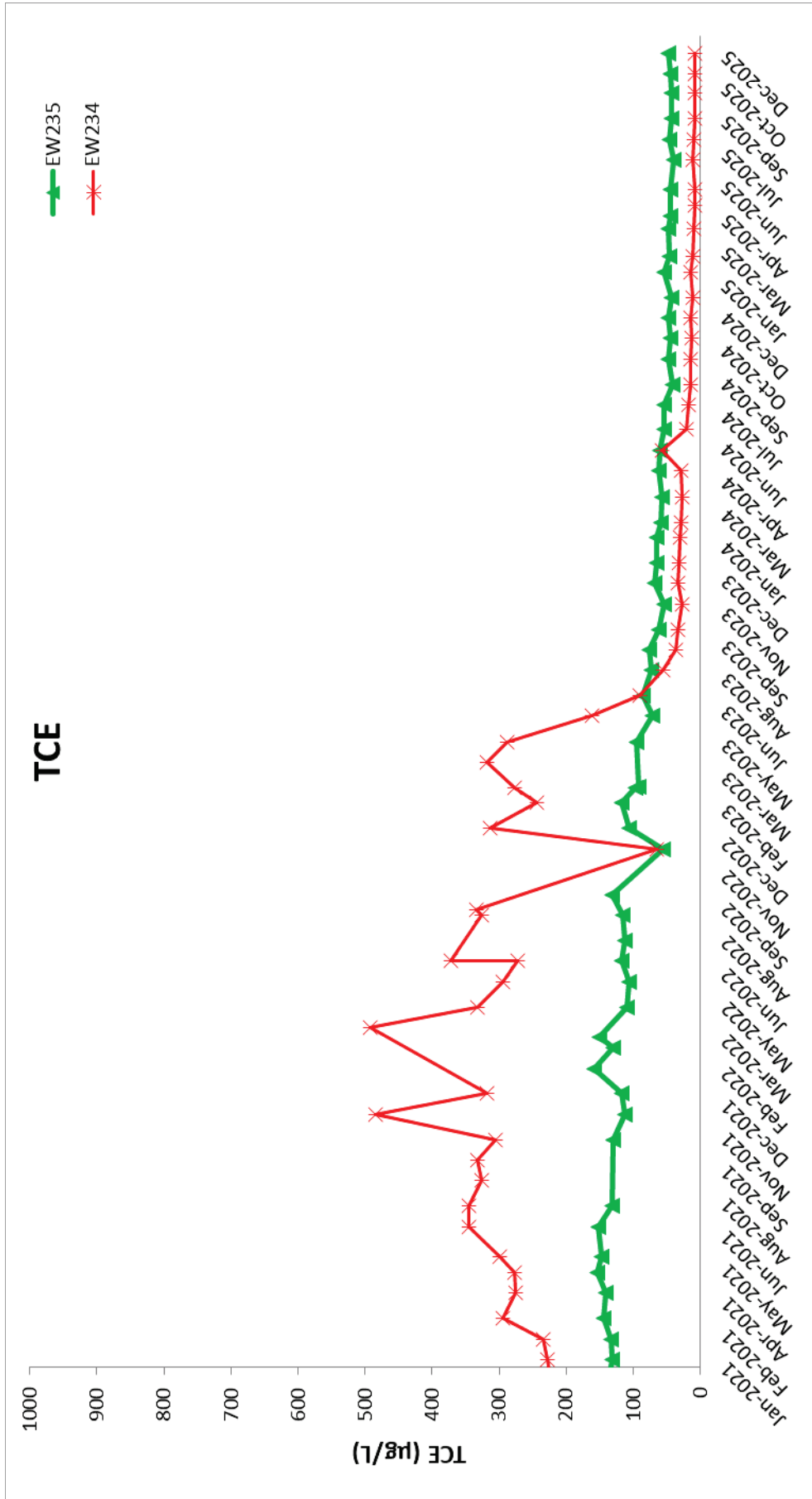
## **APPENDIX B**

### **NORTHEAST PLUME AND NORTHWEST PLUME GRAPHS, DATA, AND MAPS (FIGURES B.1 THROUGH B.30)**

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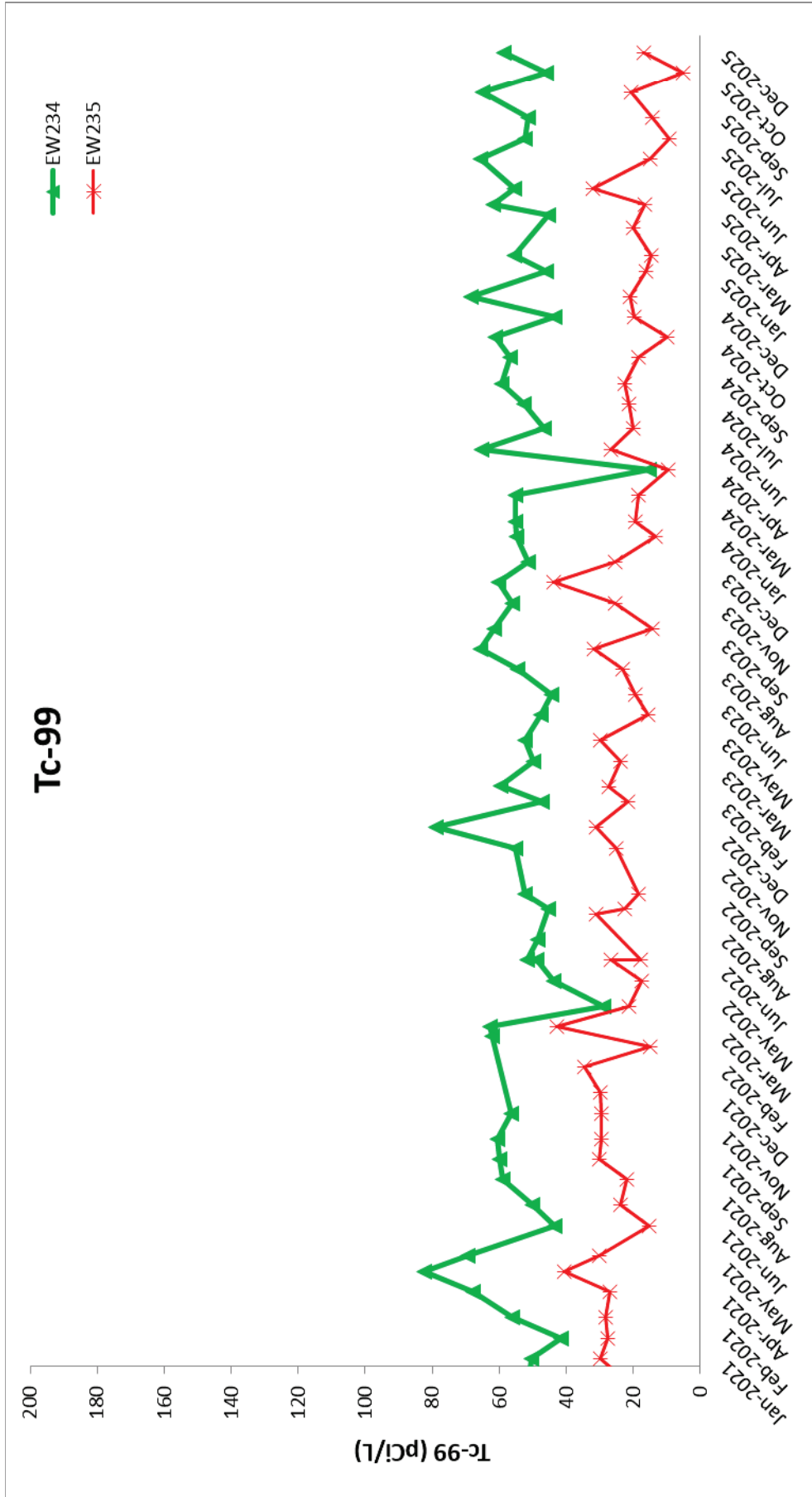
**Figure B.1. Northeast Plume Groundwater Wells and Extraction Wells**



NOTE: Data rejected by validation or assessment have not been graphed.

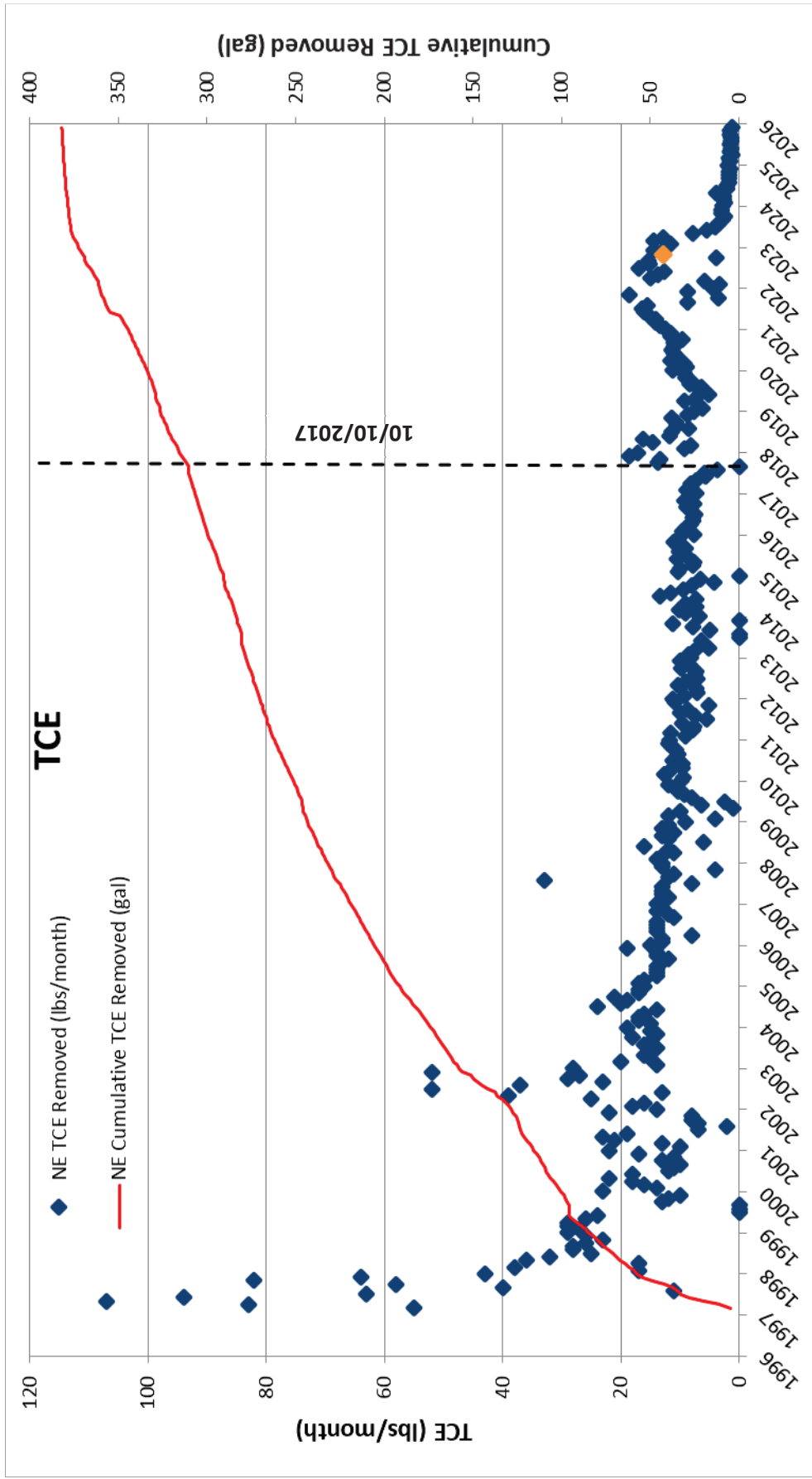
\*TCE influent data was not collected from EW234 and EW235 for November 2022.

**Figure B.2. Northeast Plume Containment System Influent TCE Concentrations**



NOTE: Data rejected by validation or assessment have not been graphed.

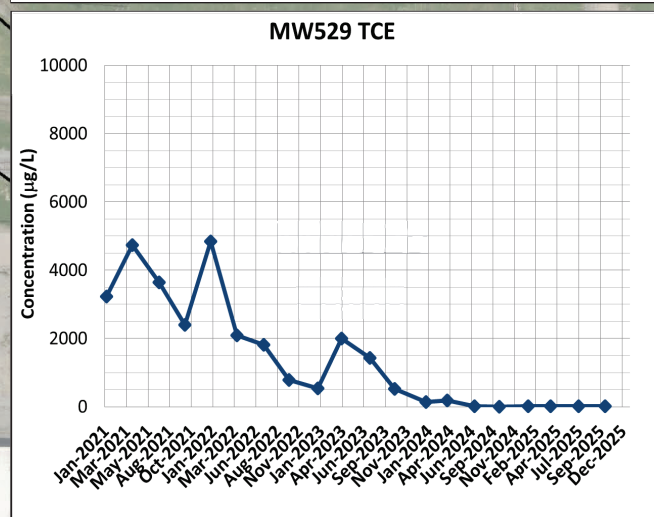
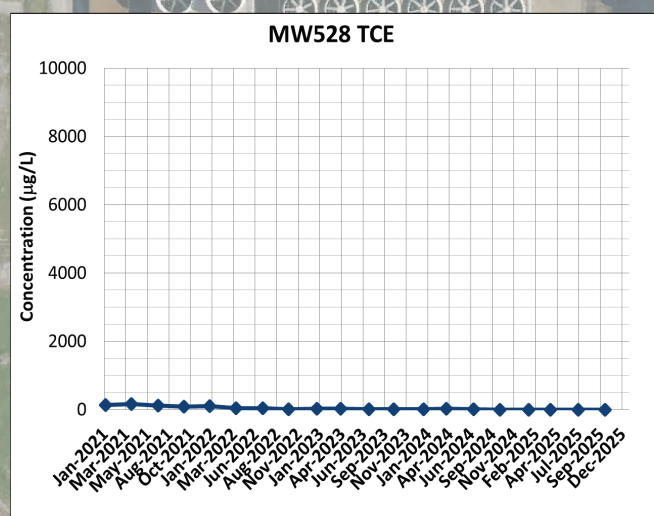
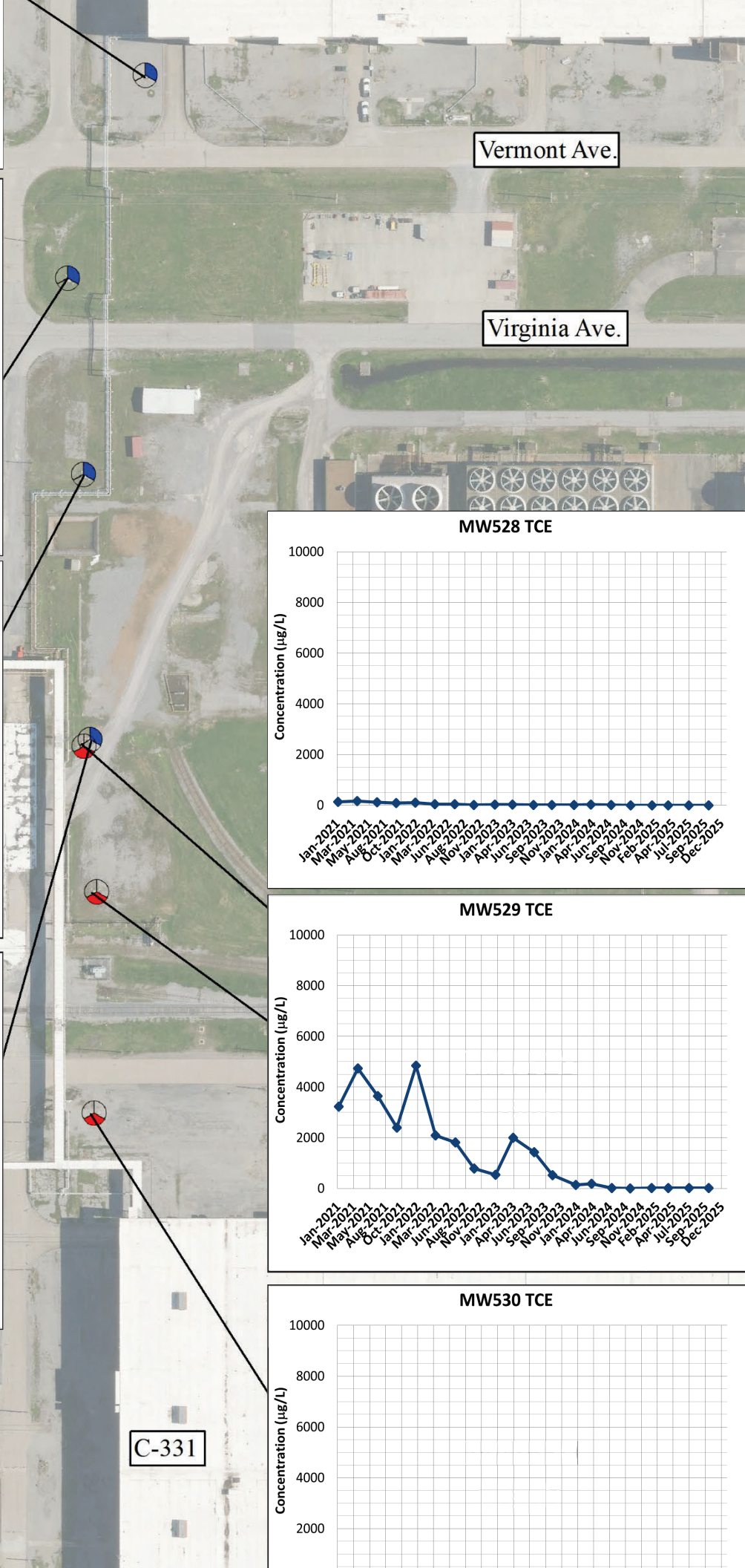
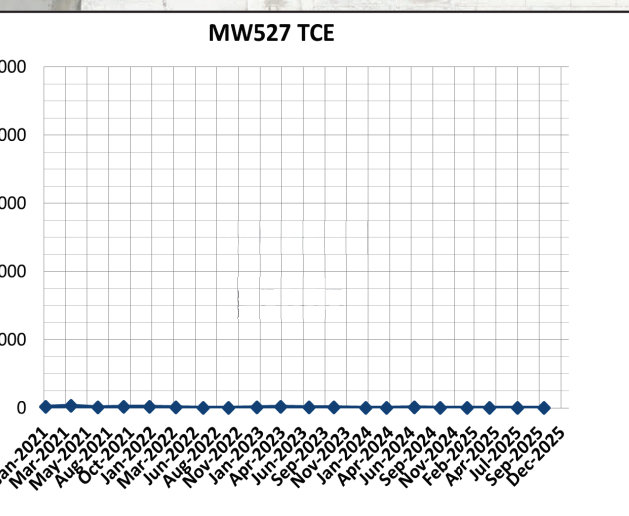
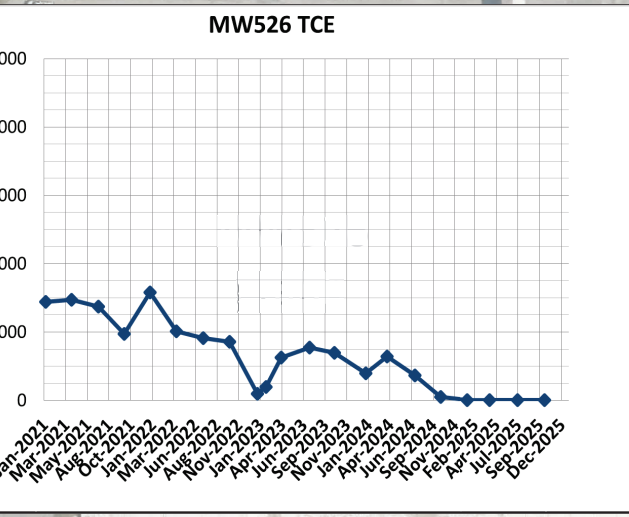
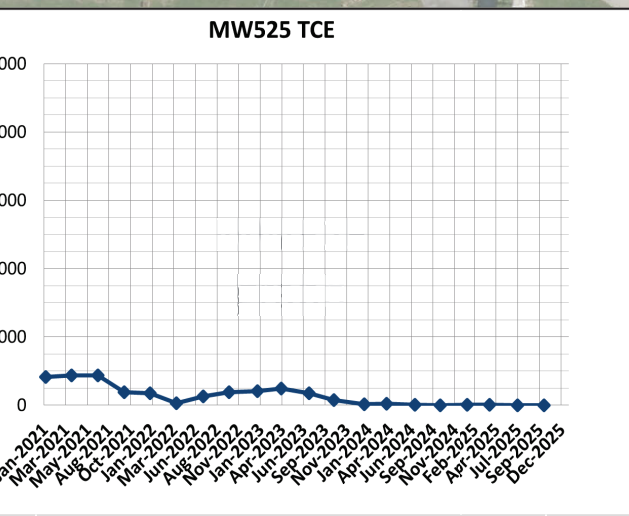
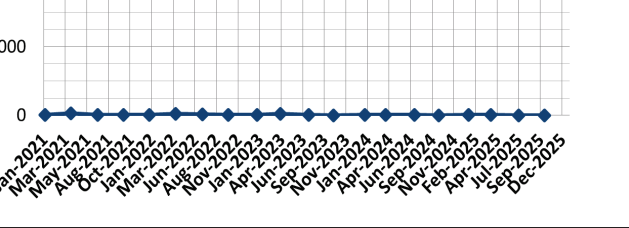
Figure B.3. Northeast Plume—Tc-99 Activities in Extraction Wells

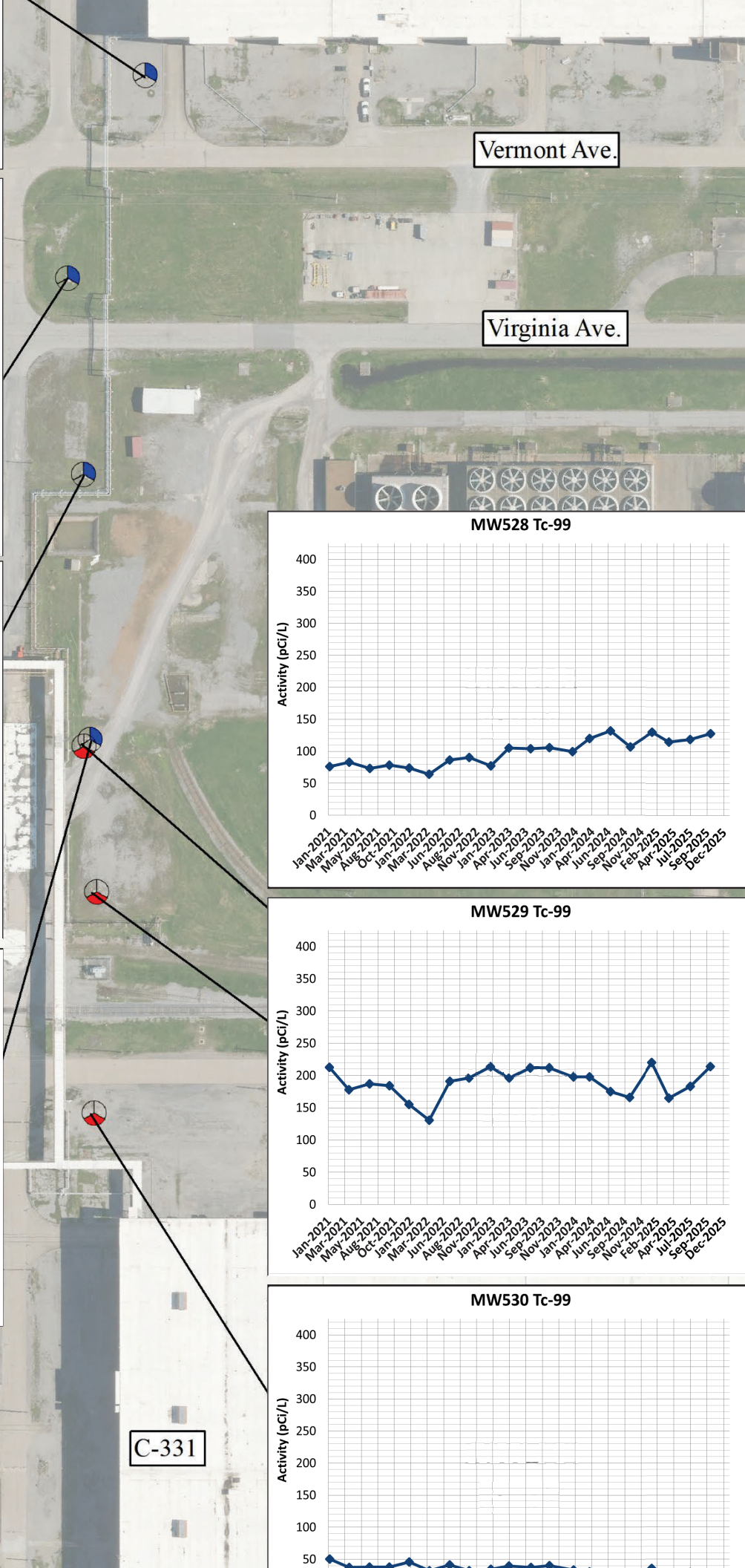
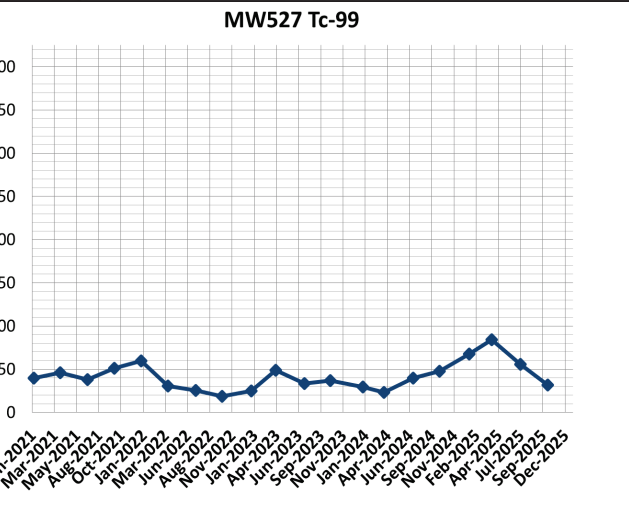
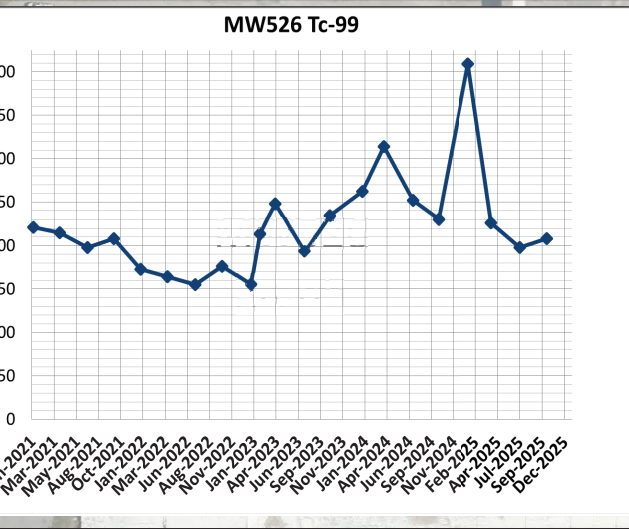
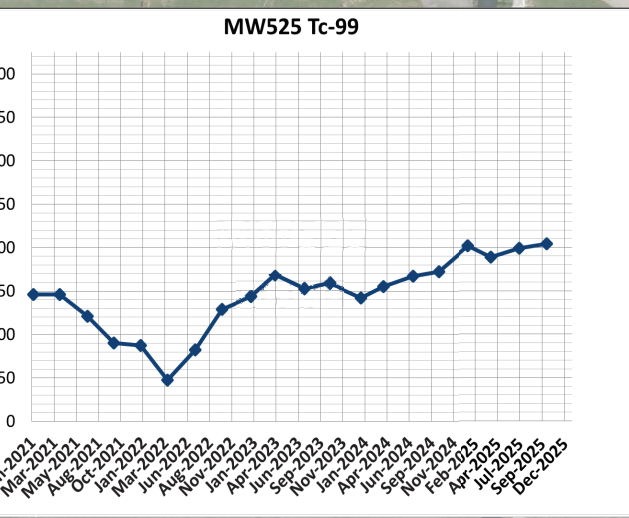
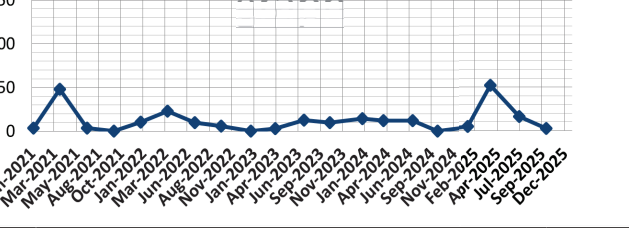


NOTE: Data rejected by validation or assessment have not been graphed.

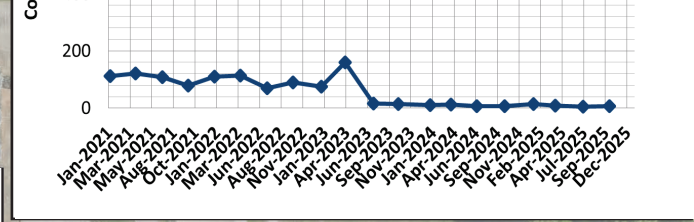
◆ TCE influent data was not collected from EW234 and EW235 for November 2022. The average useable data for the rest of the reporting period [July 2022 – December 2022 (282 µg/L)] was used to calculate lbs of TCE removed.

Figure B.4. Northeast Plume Containment System TCE Removed

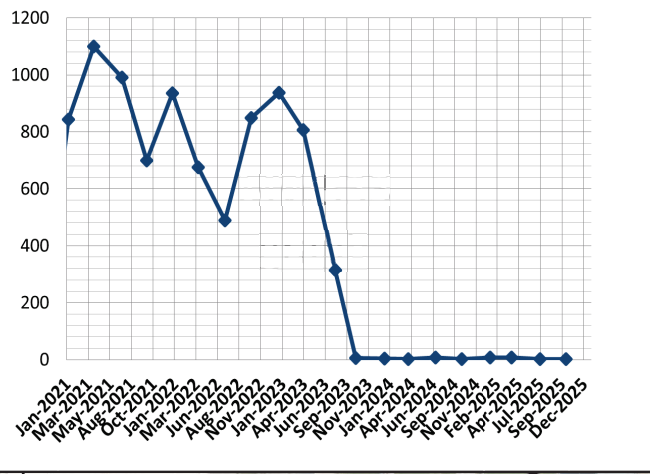




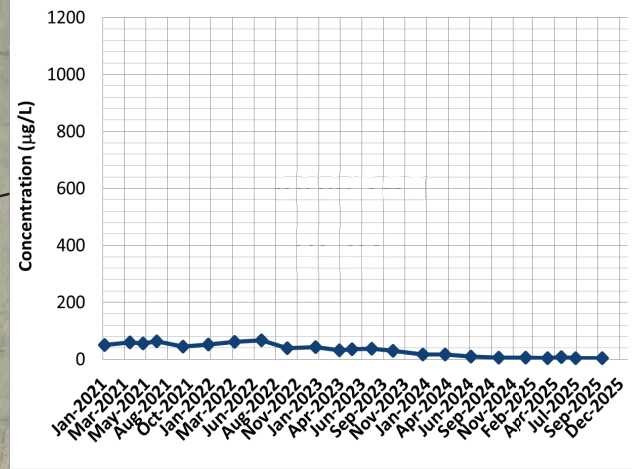
-337



MW533 TCE



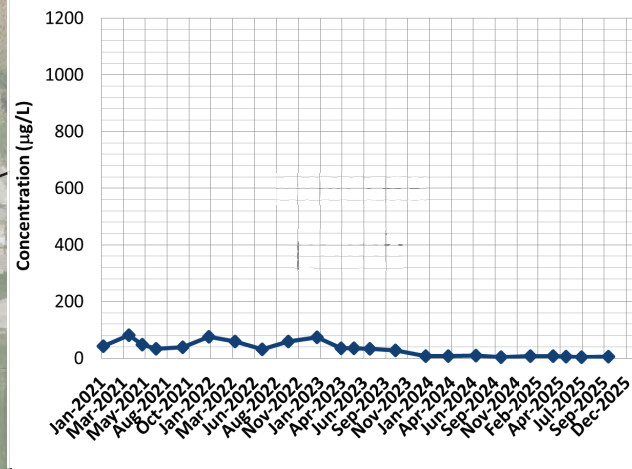
MW260 TCE



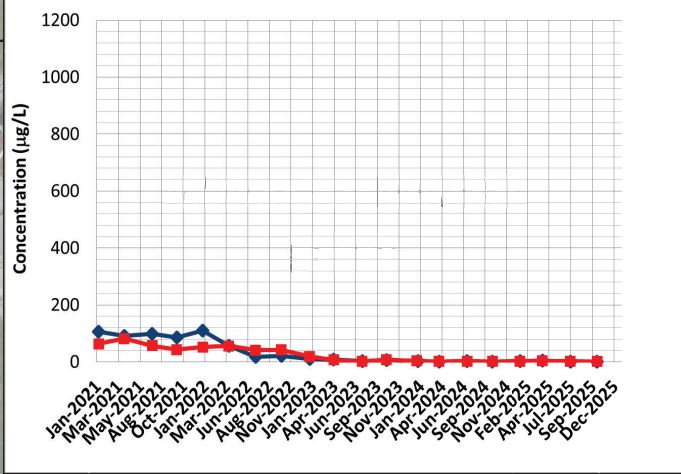
Vermont Ave.

EW234

MW163 TCE

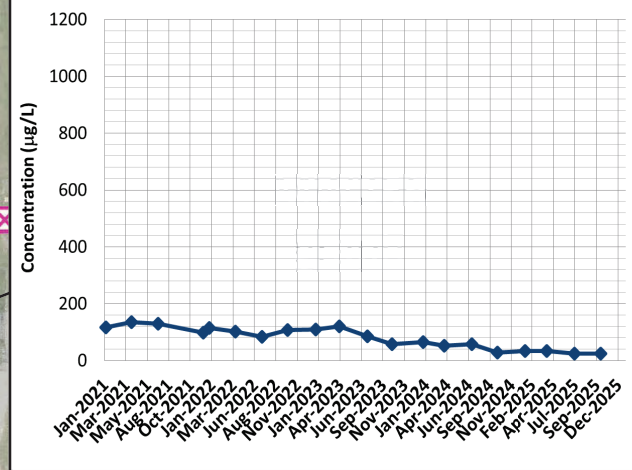


MW536 & MW537 TCE

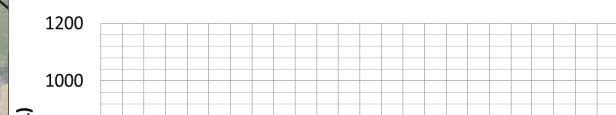


EW235

MW256 TCE



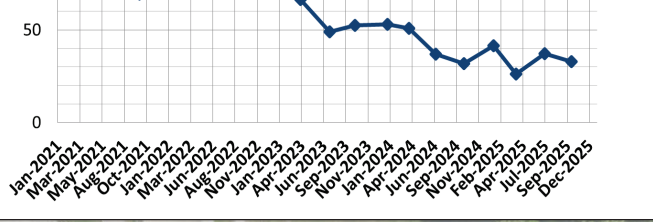
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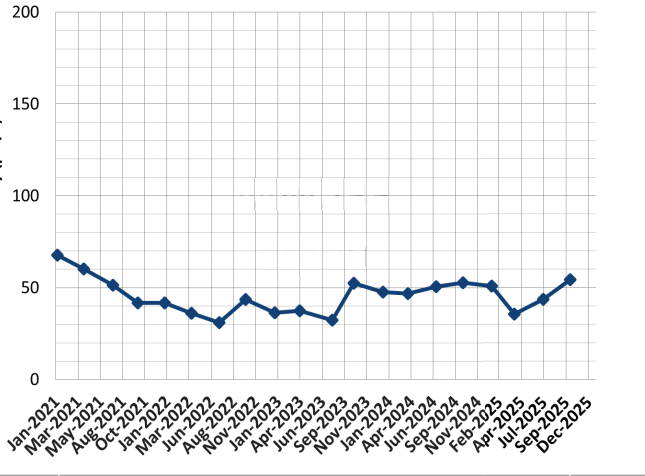
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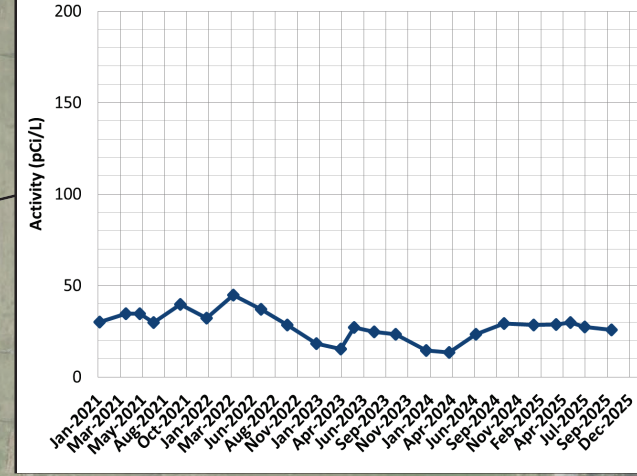
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MW533 Tc-99

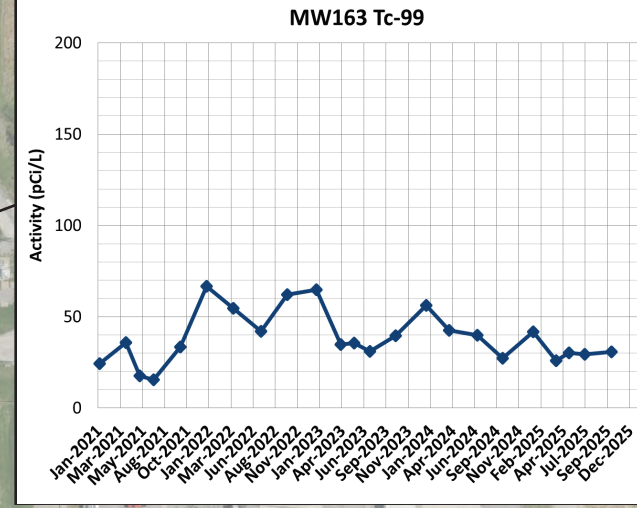


MW260 Tc-99



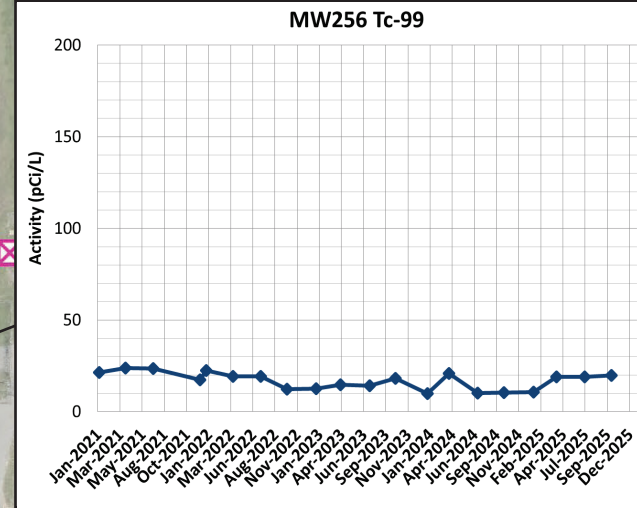
Vermont Ave.

EW234



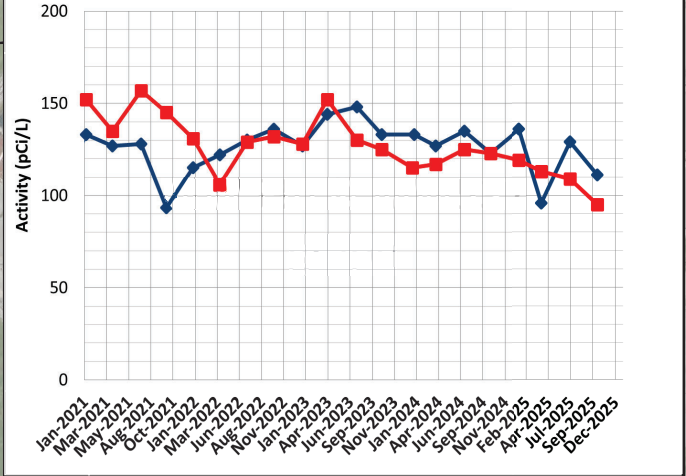
MW163 Tc-99

EW234

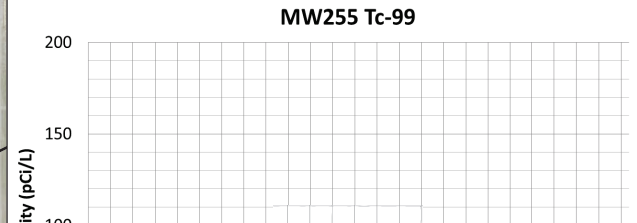


MW256 Tc-99

MW536 & MW537 Tc-99

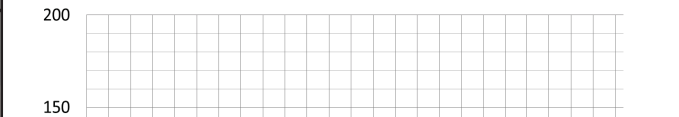


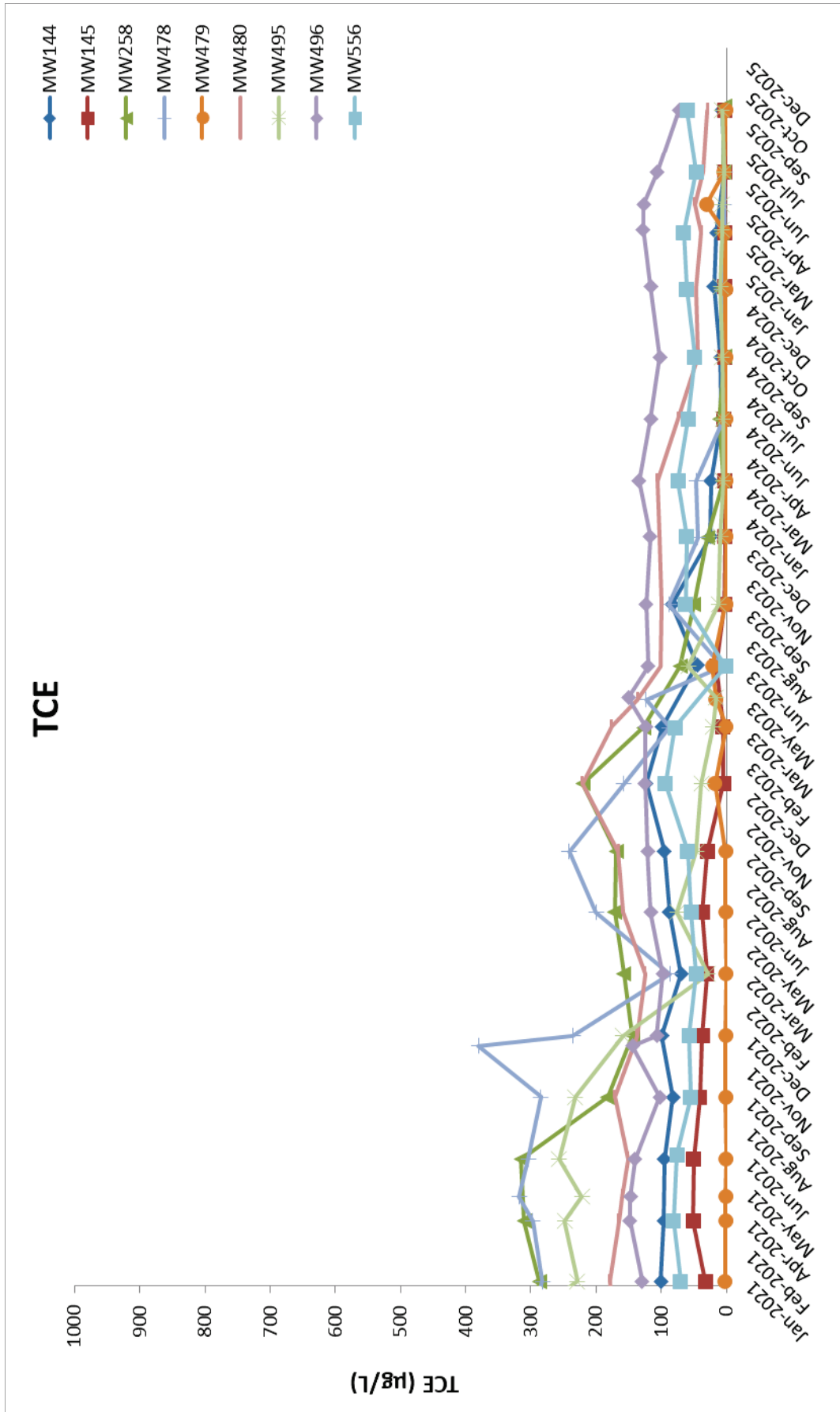
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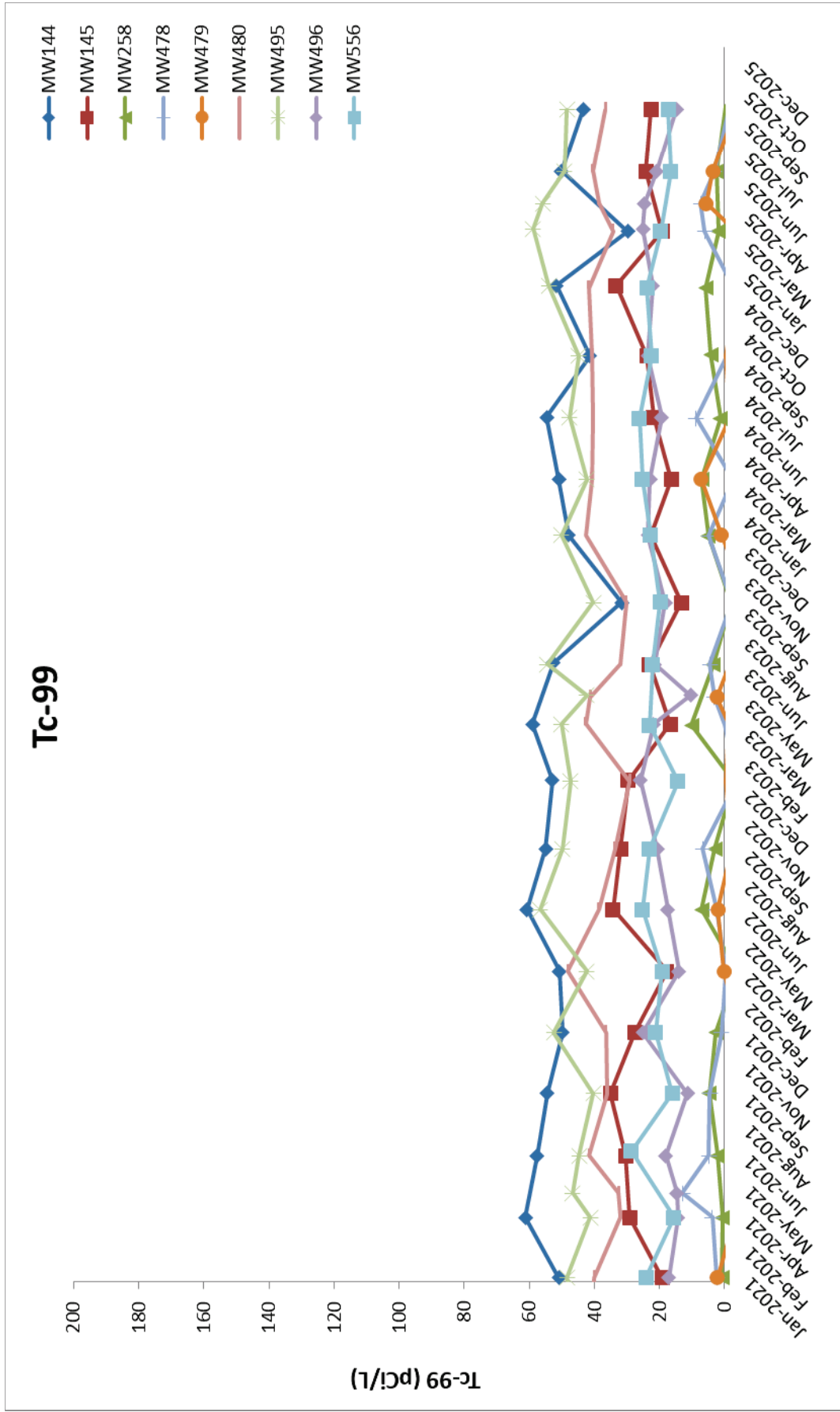
MW255 Tc-99

MW538 & MW539 Tc-99



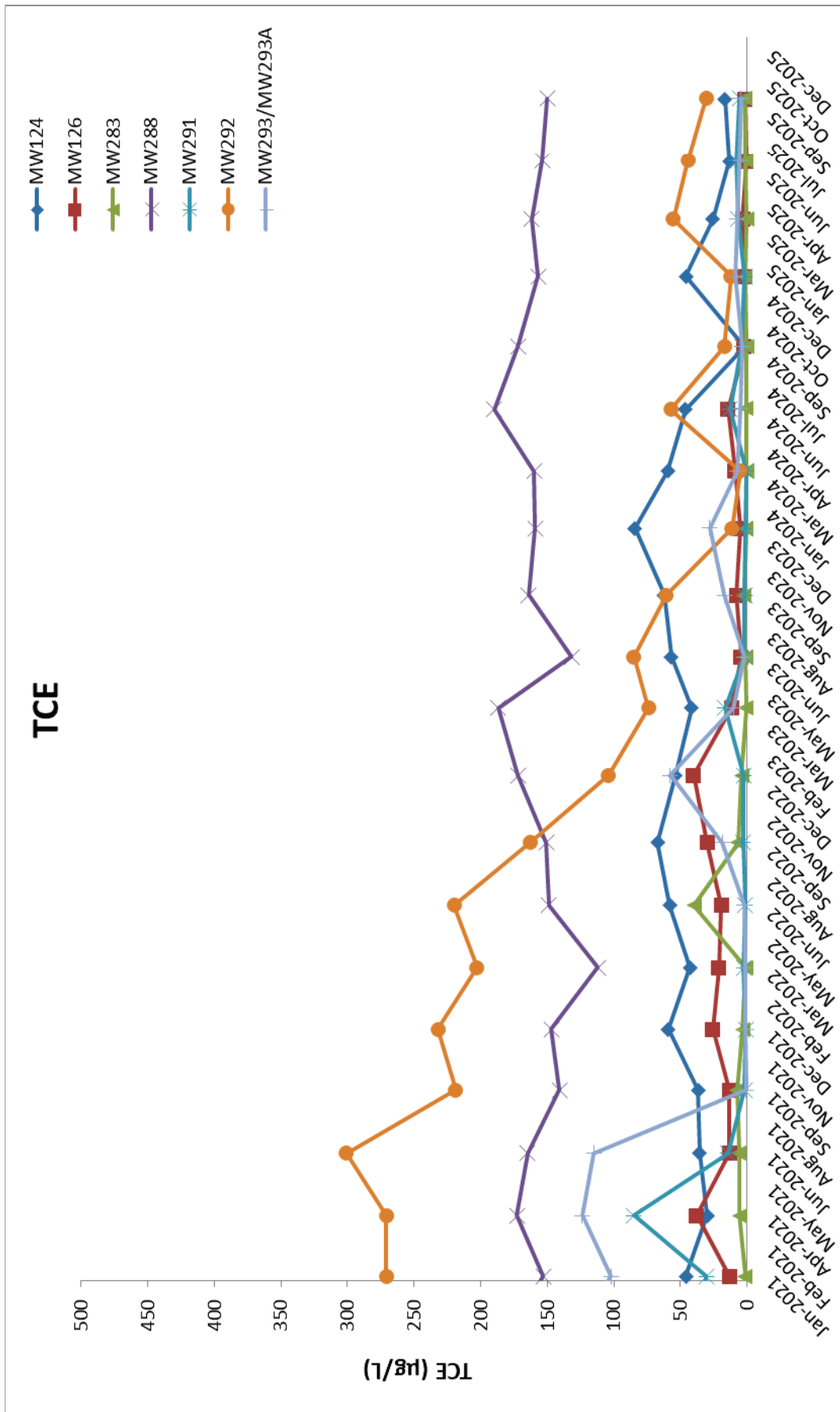


**Figure B.9. Northeast Plume—TCE Concentrations in Downgradient Wells**



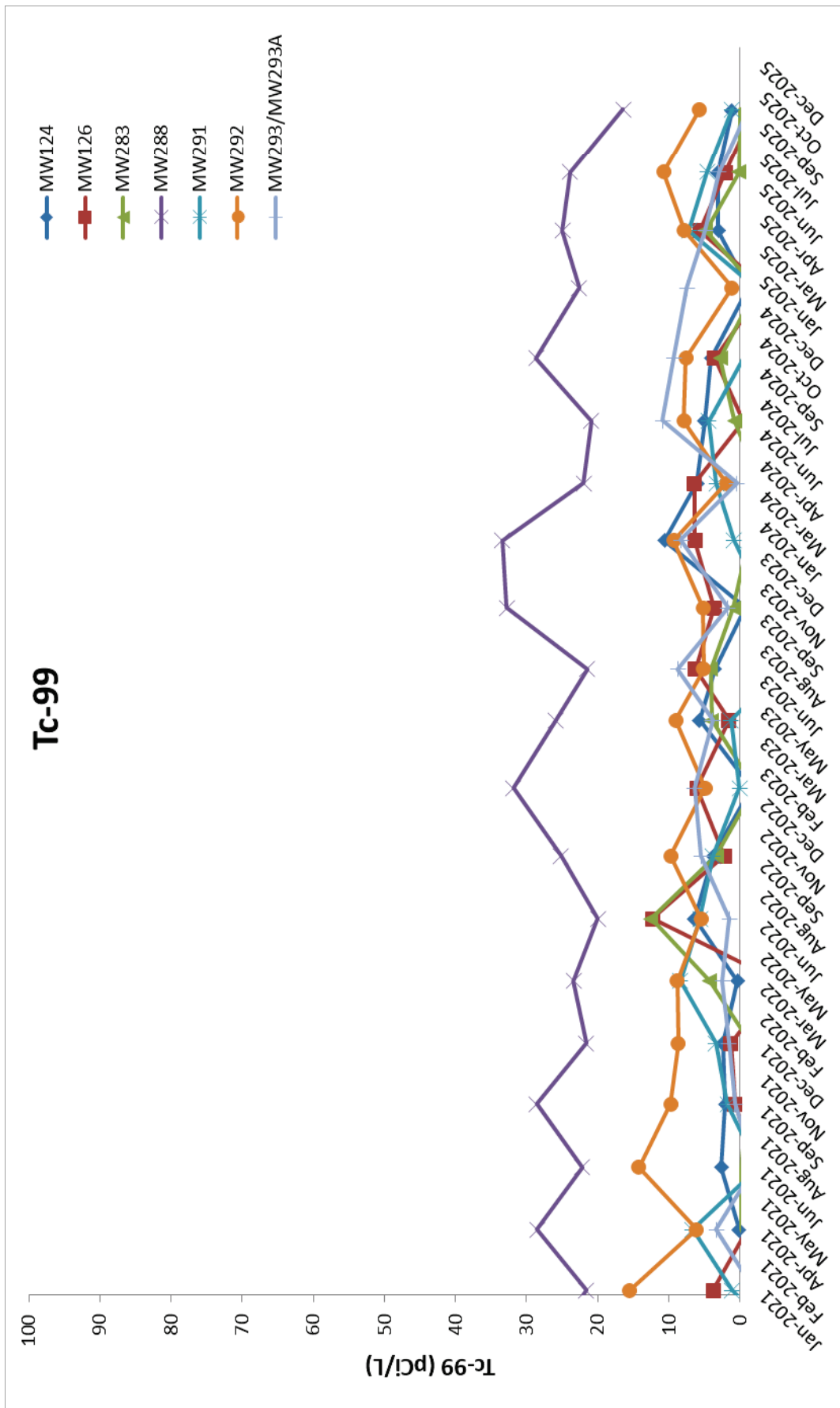
NOTE: Data rejected by validation or assessment have not been graphed.

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



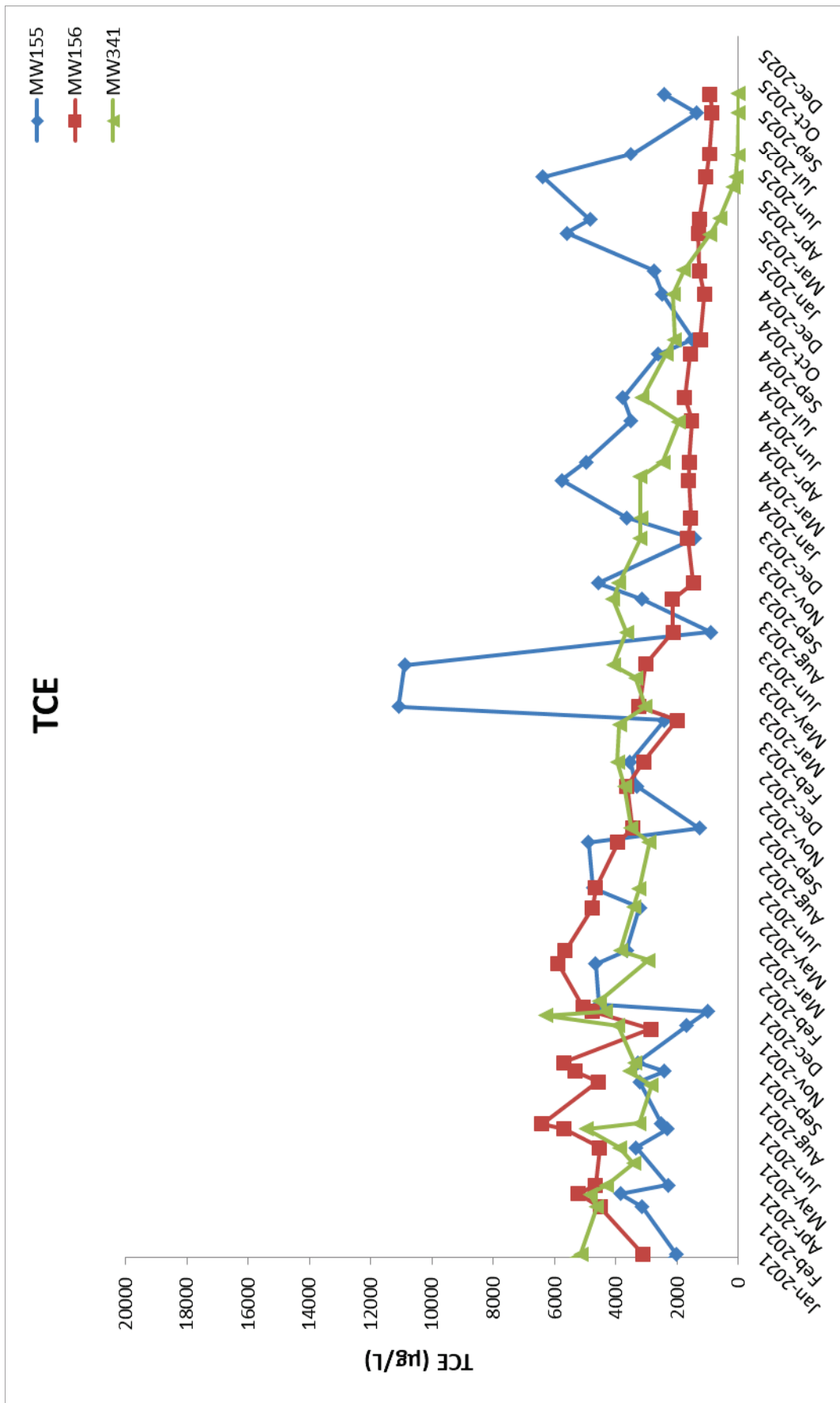
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Figure B.11. Northeast Plume—TCE Concentrations in Distal Downgradient Wells



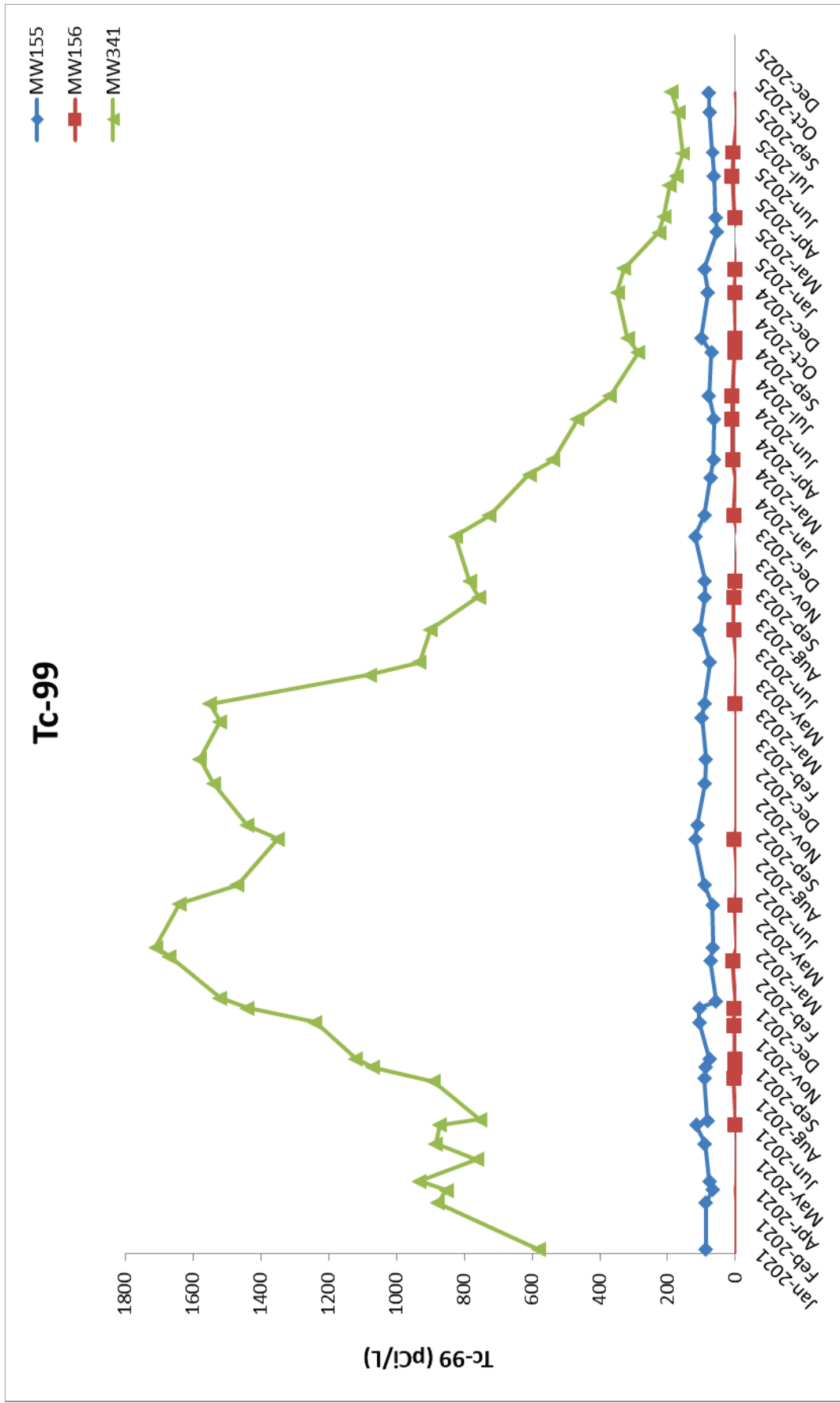
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.12. Northeast Plume—Tc-99 Activities in Distal Downgradient Wells



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.13. Northeast Plume—TCE Activities in Wells near C-400 Complex



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.14. Northeast Plume—Tc-99 Activities in Wells near C-400 Complex

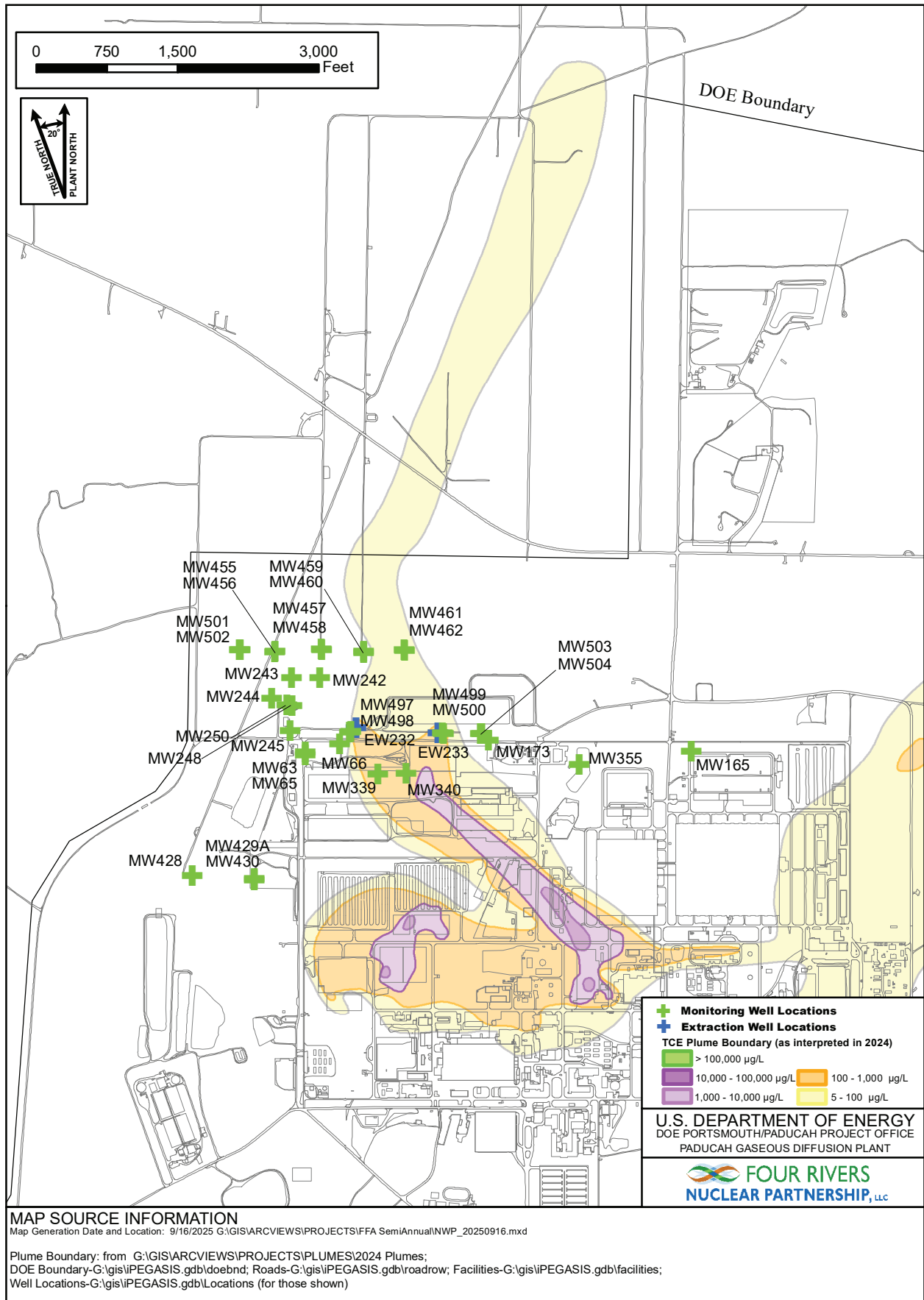
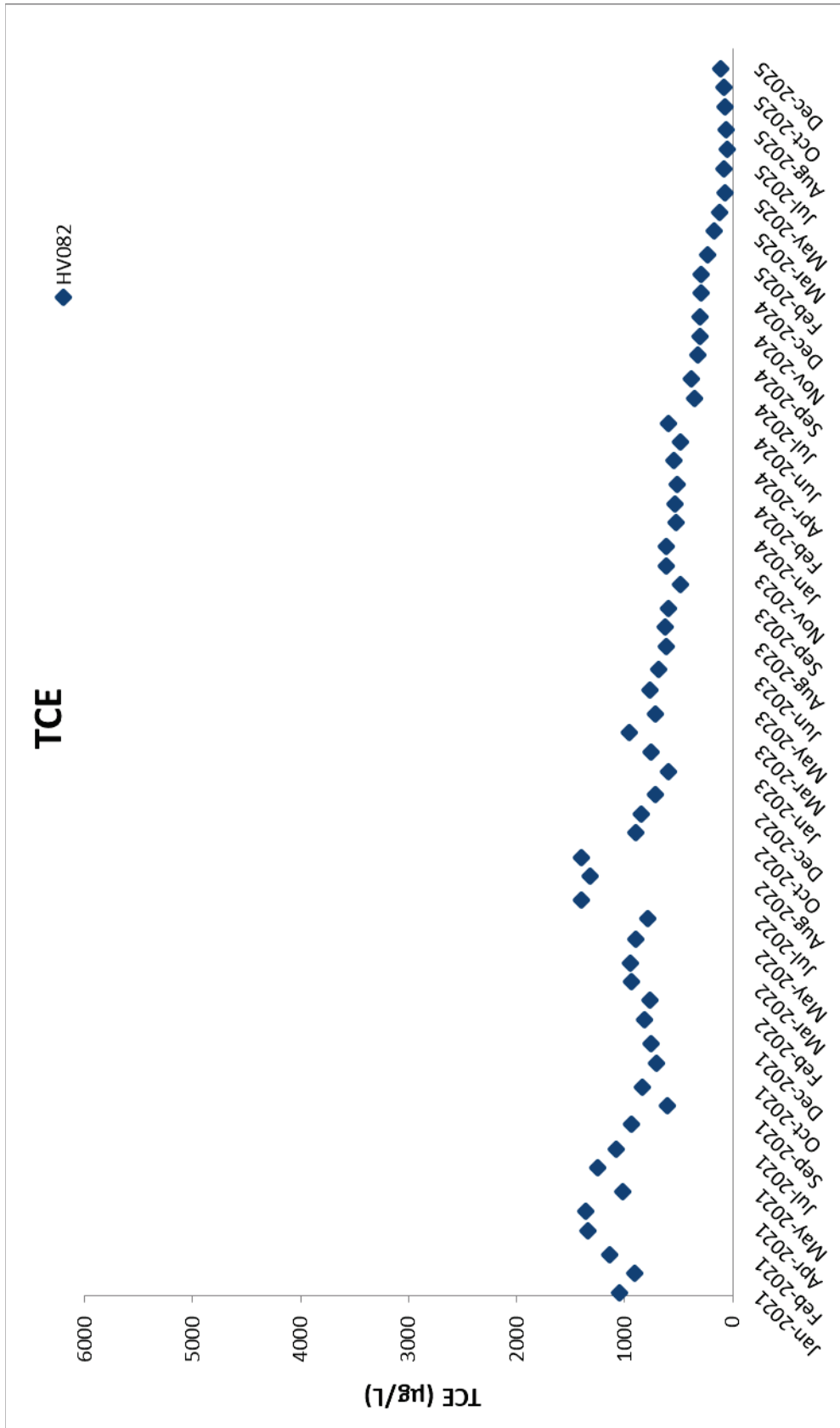
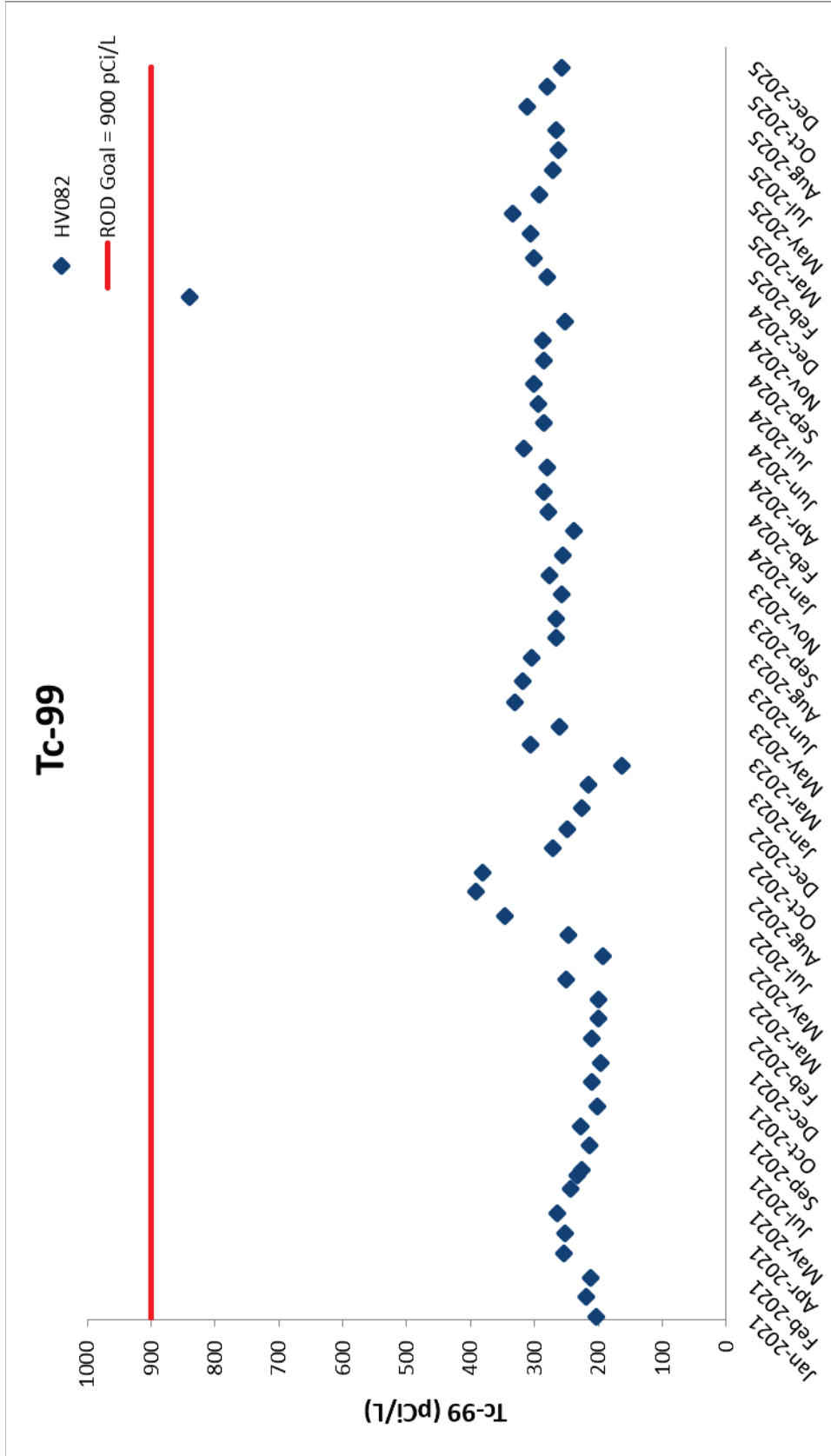


Figure B.15. Northwest Plume Groundwater Wells



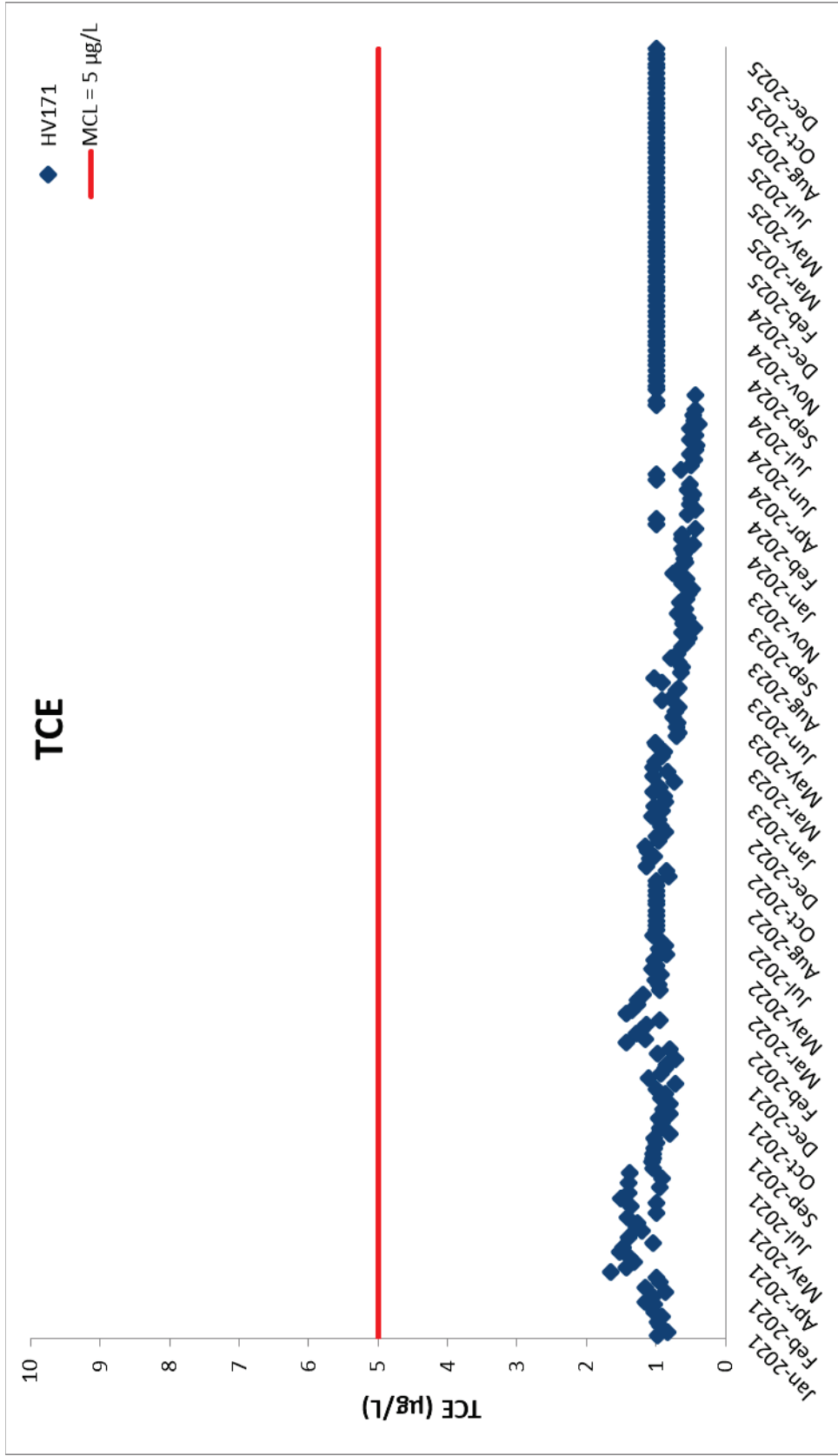
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.16. Northwest Plume Groundwater System Influent TCE Concentrations



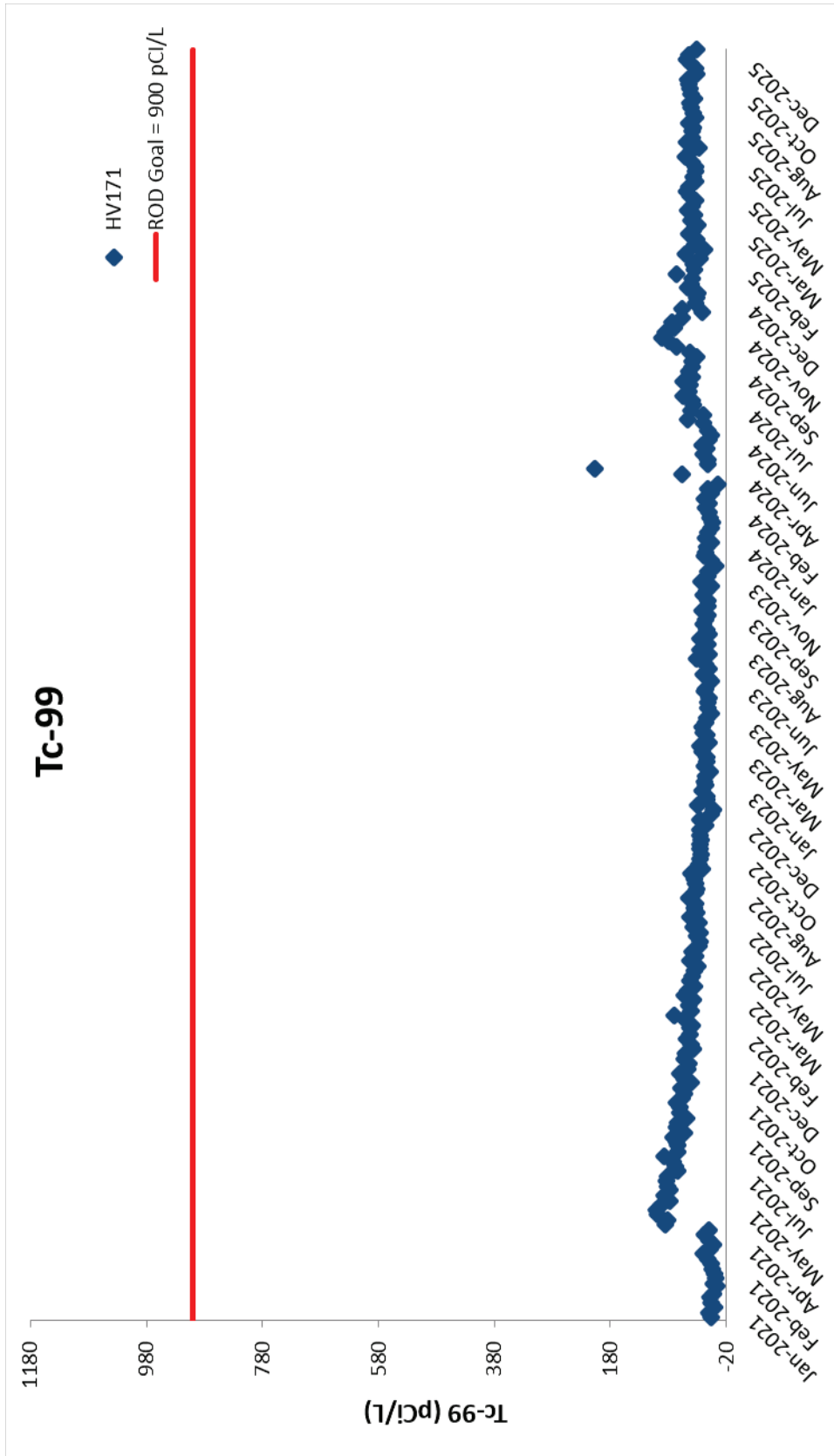
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.17. Northwest Plume Groundwater System Influent Tc-99 Activities



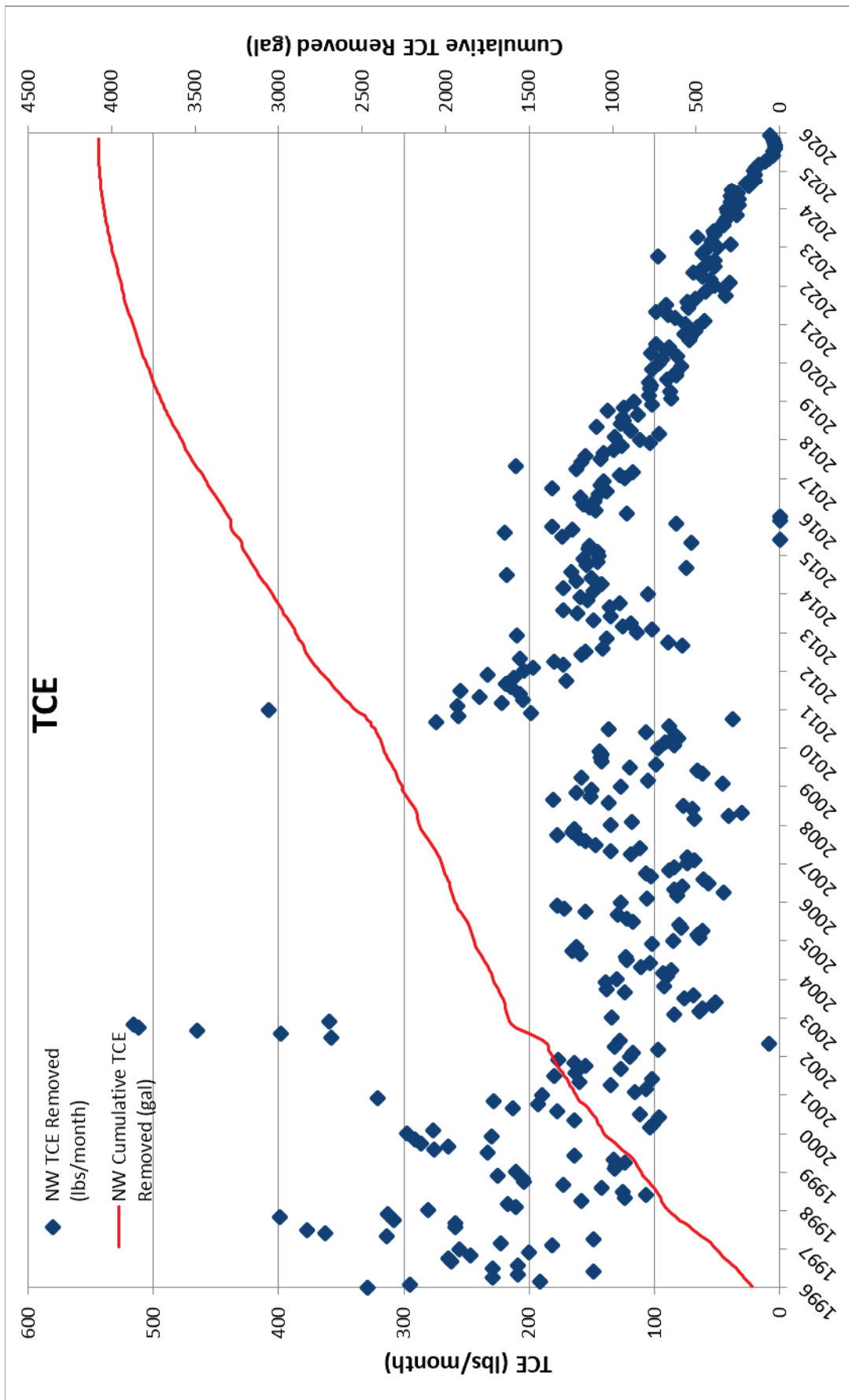
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.18. Northwest Plume Groundwater System Effluent TCE Concentrations



NOTE: Data rejected by validation or assessment have not been graphed.

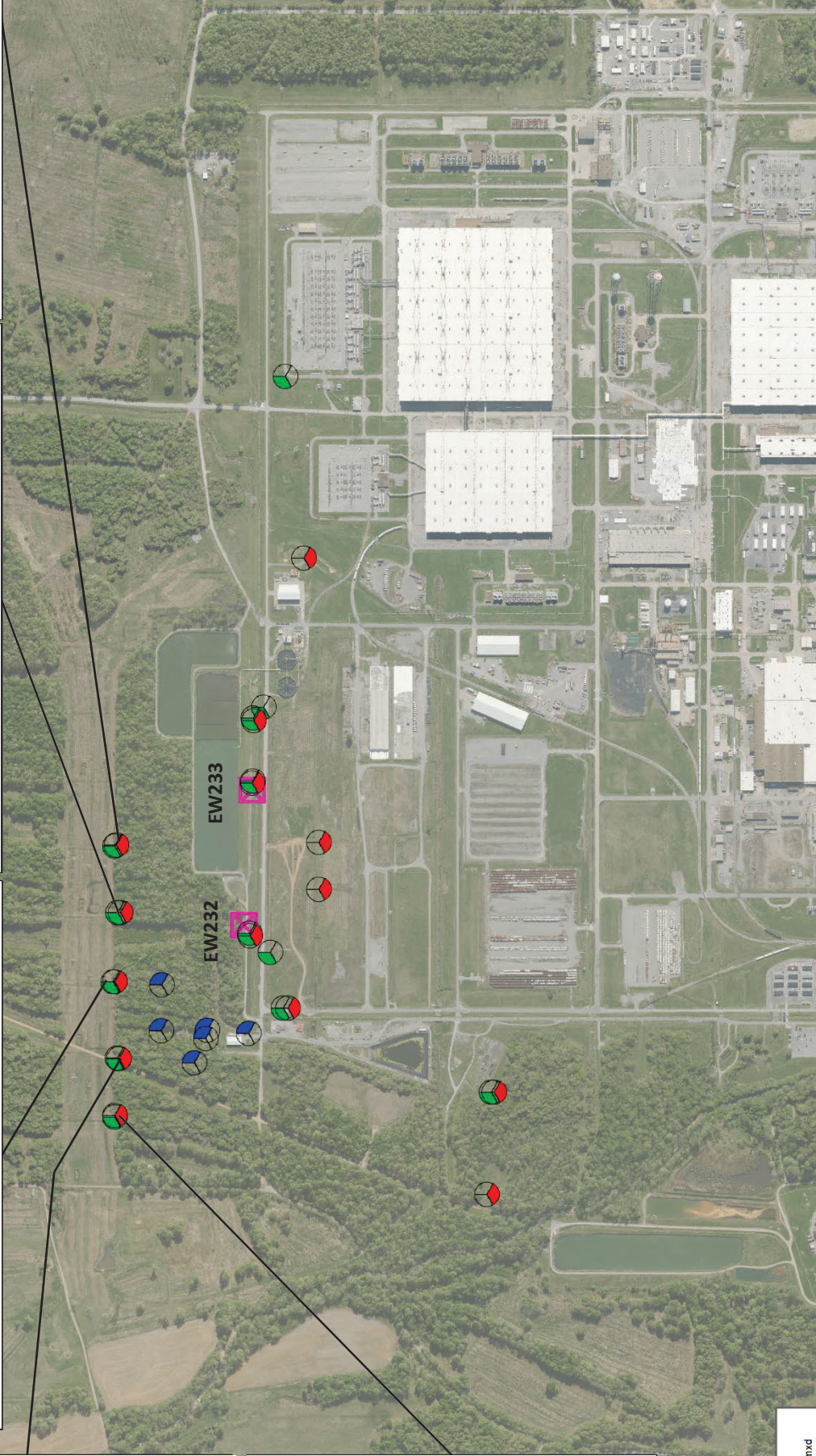
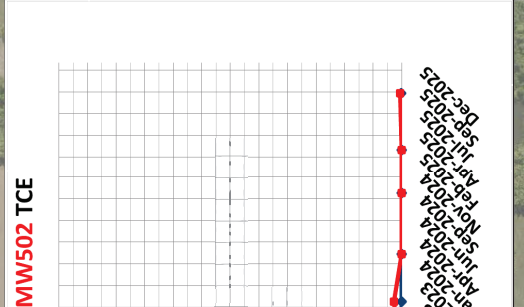
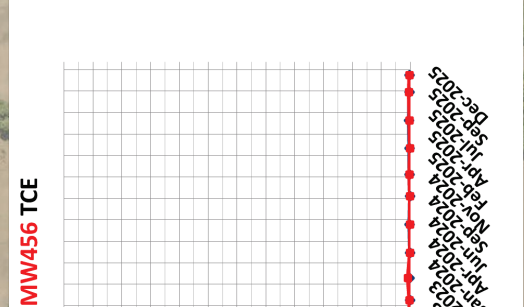
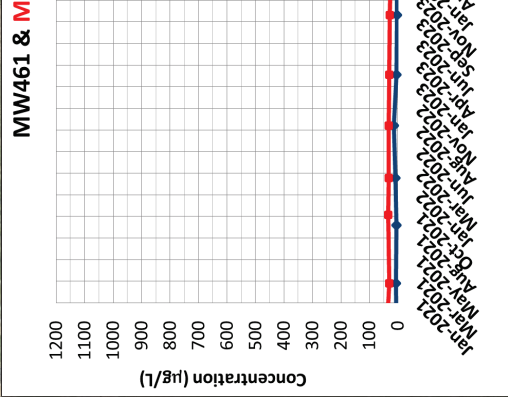
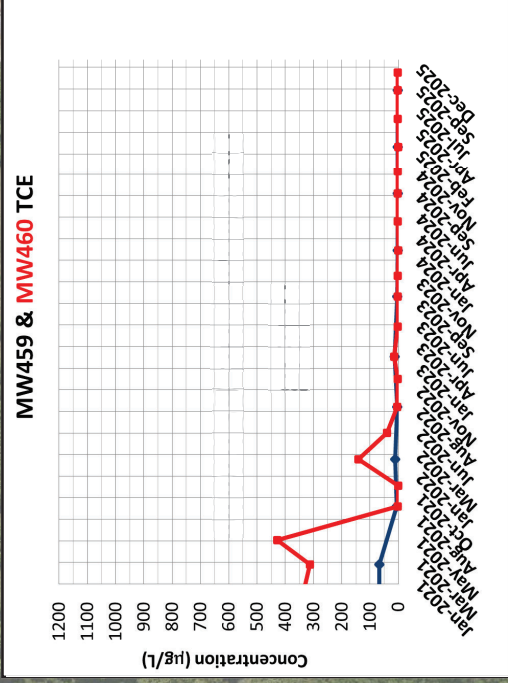
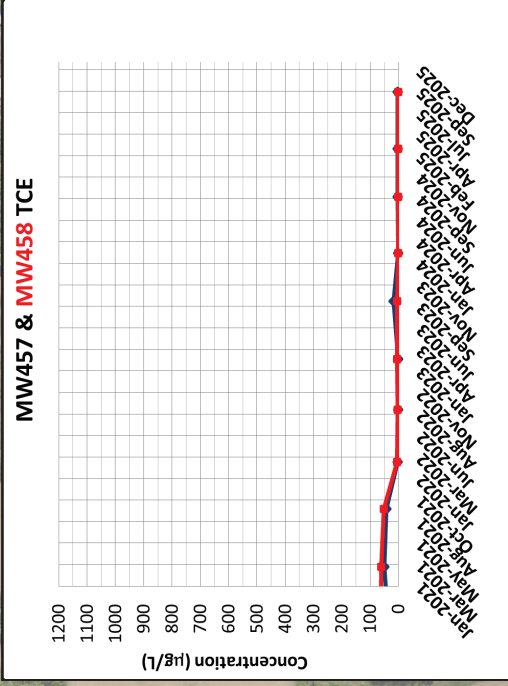
Figure B.19. Northwest Plume Groundwater System Effluent Tc-99 Activities



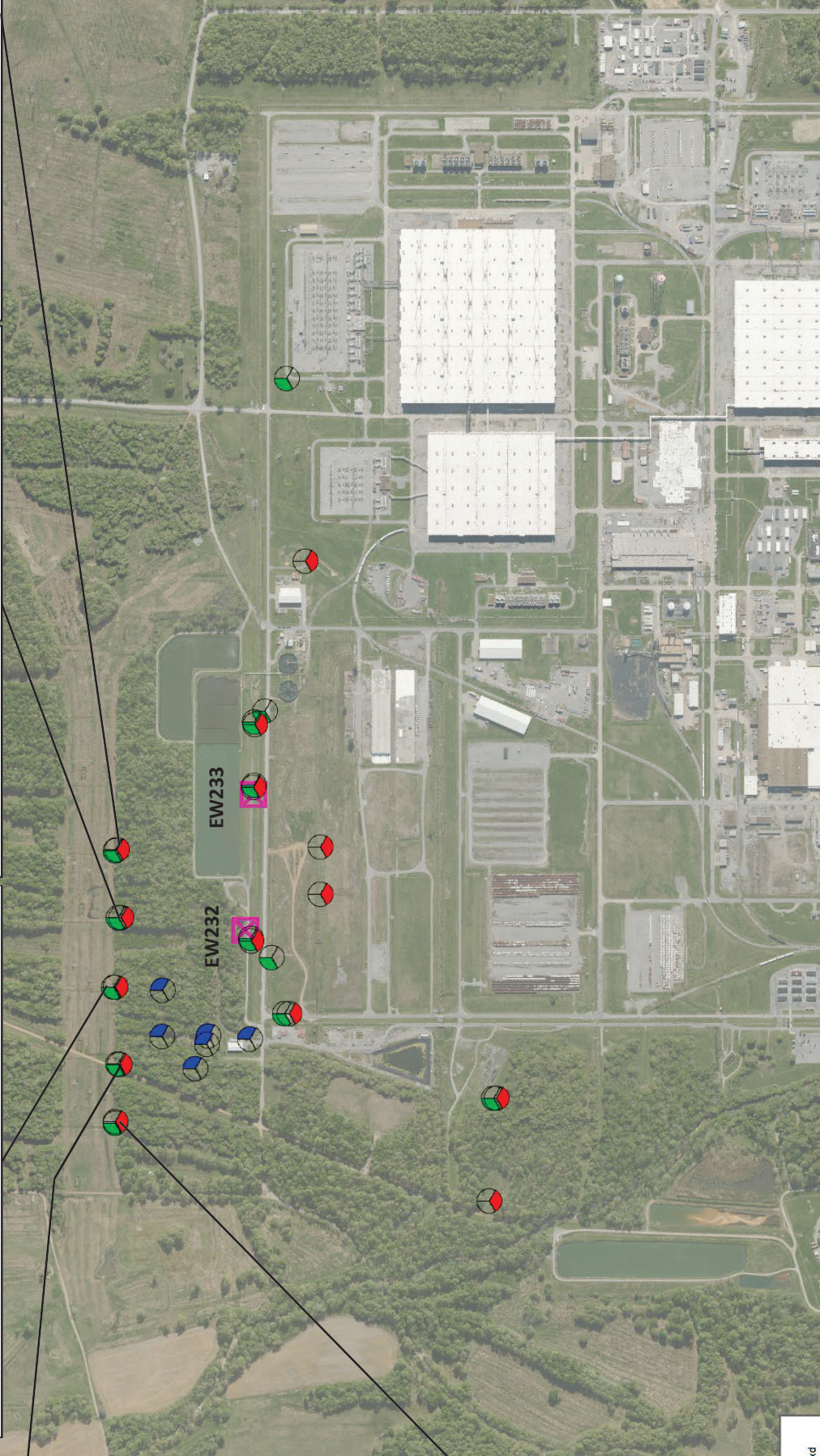
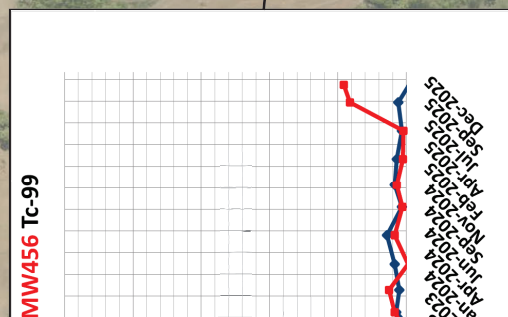
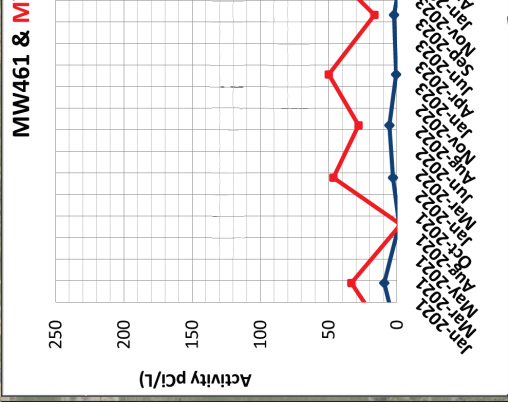
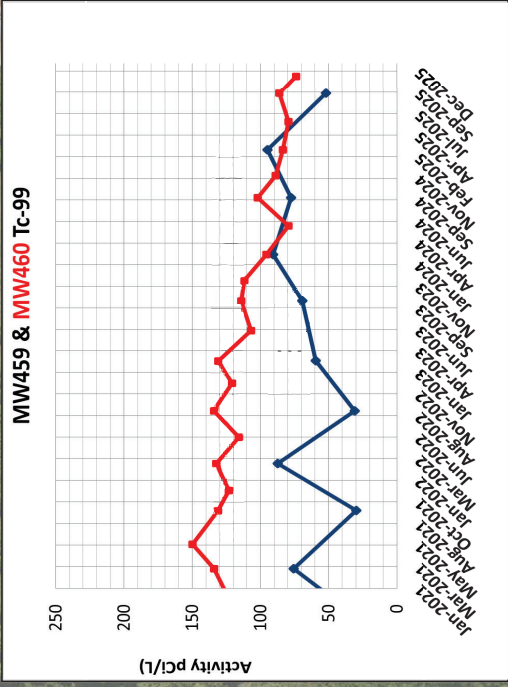
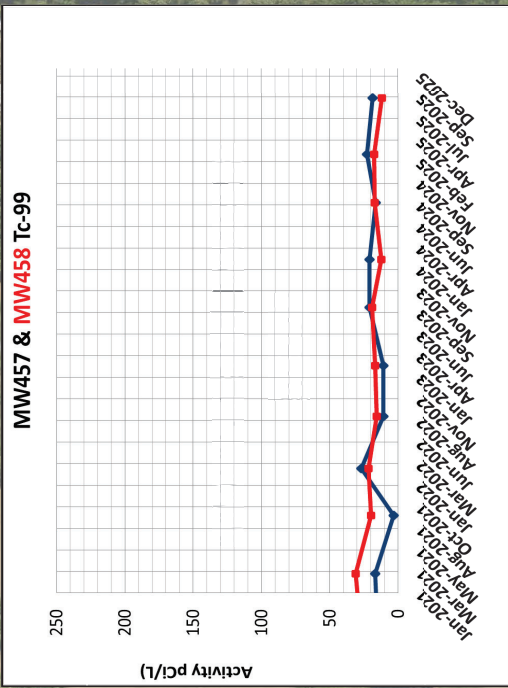
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.20. Northwest Plume Groundwater System TCE Removed

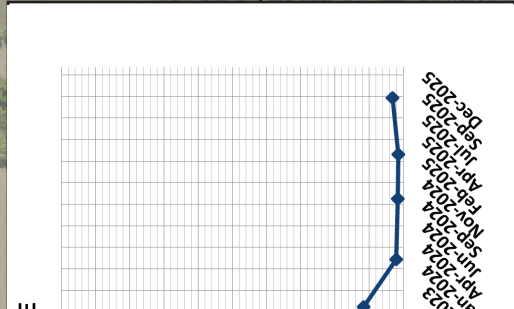
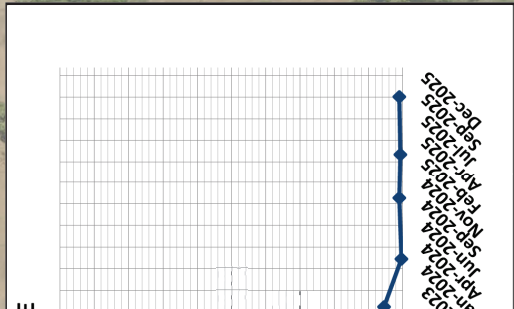
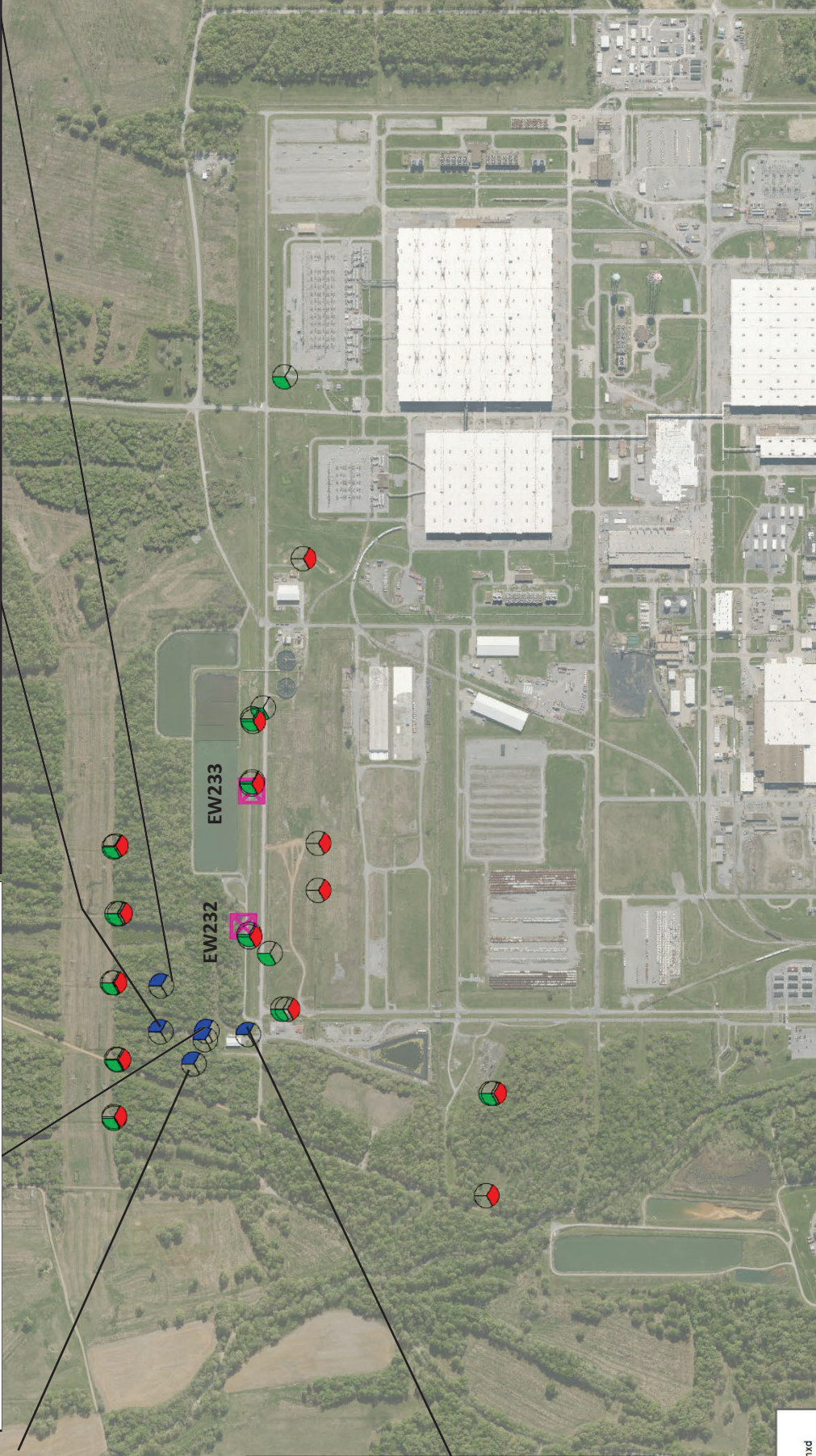
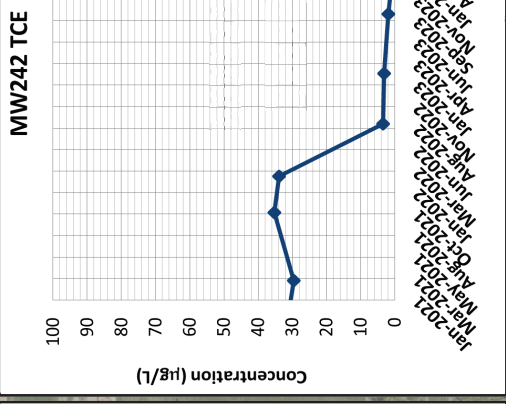
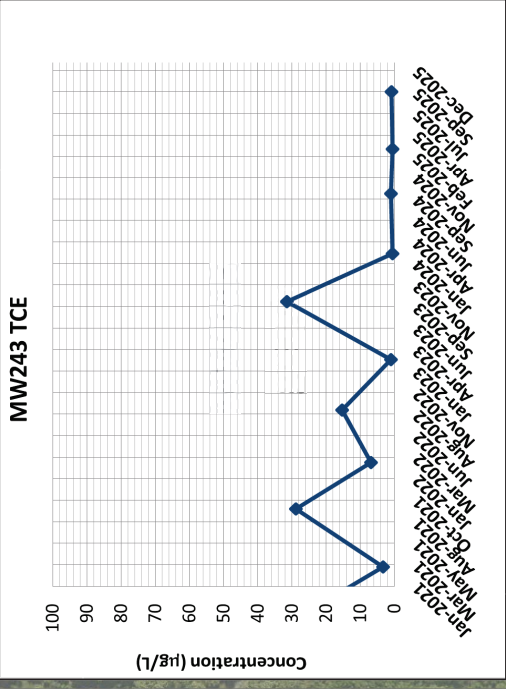
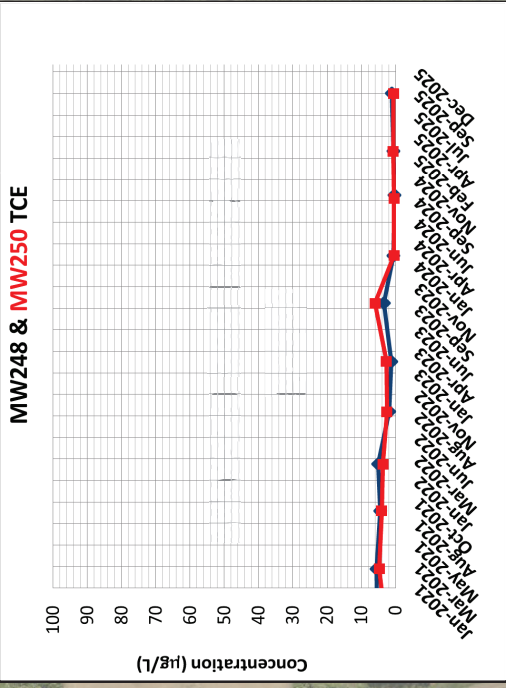
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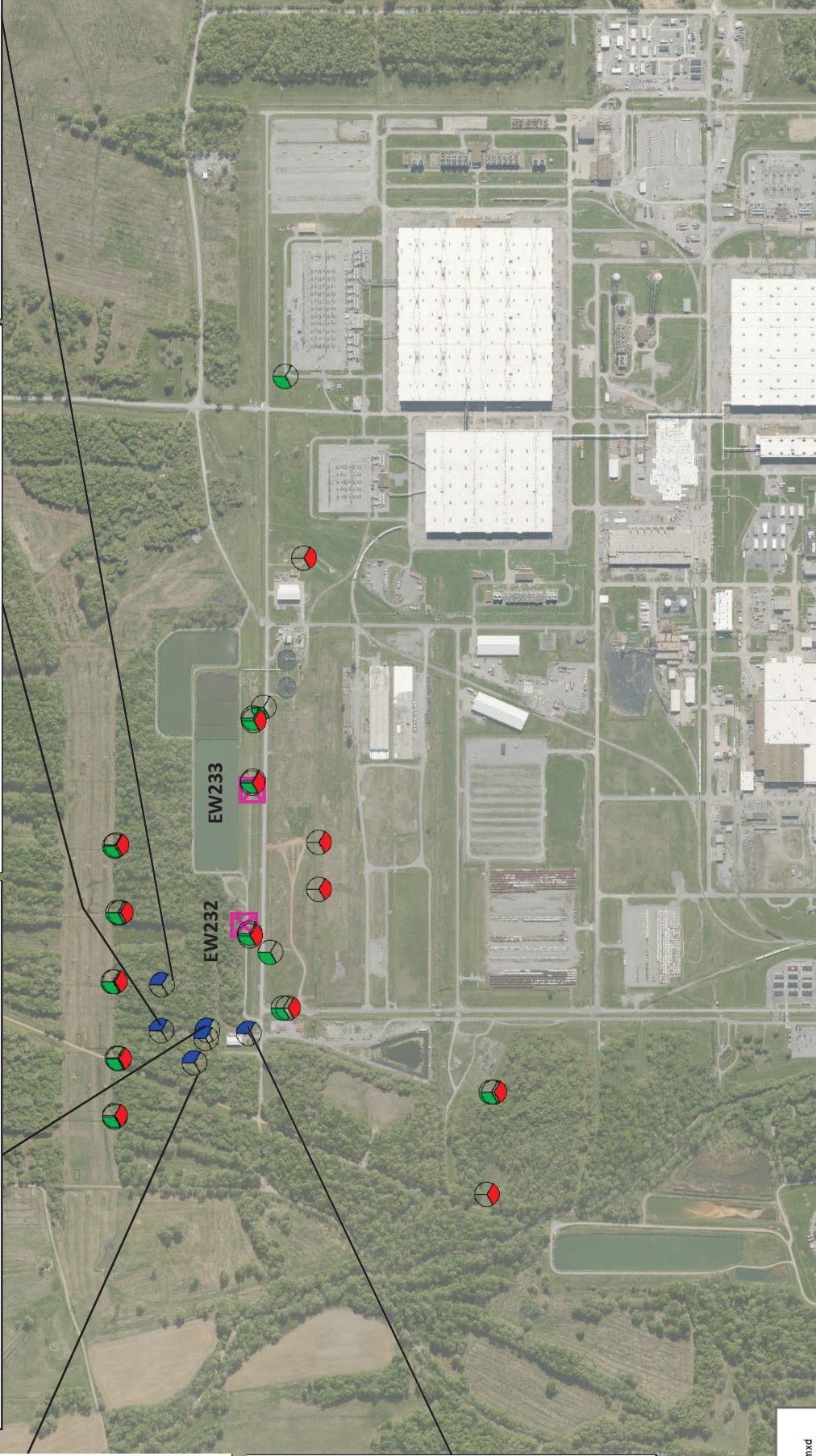
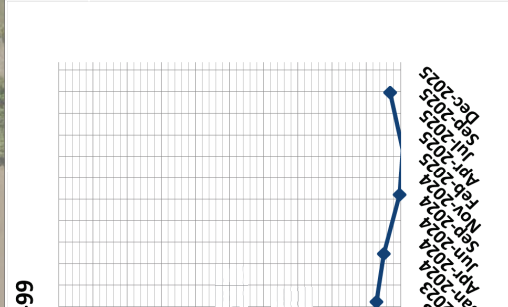
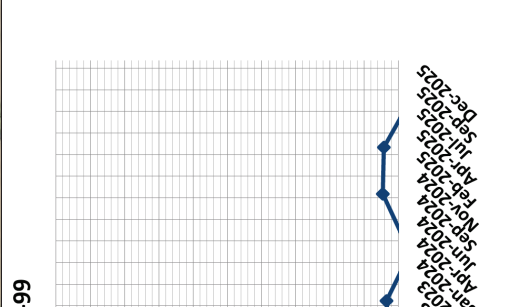
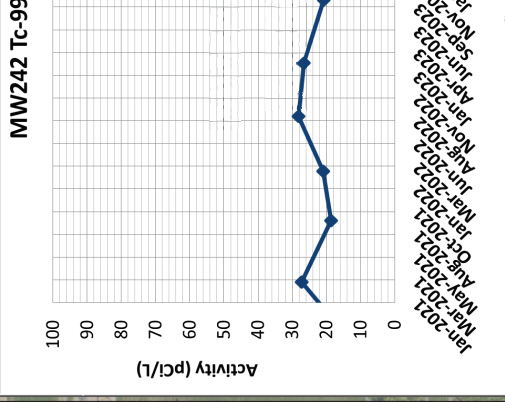
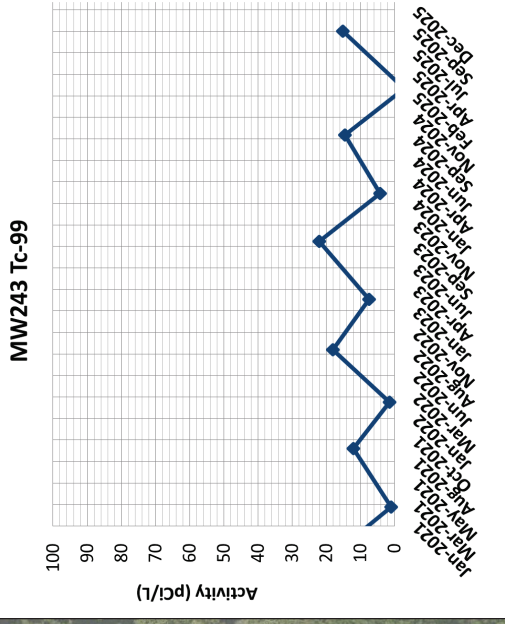
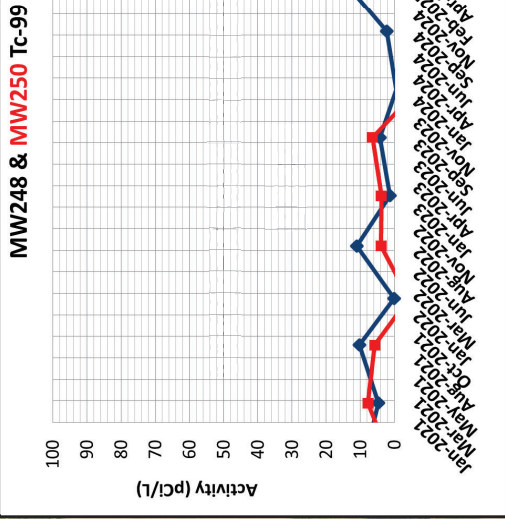
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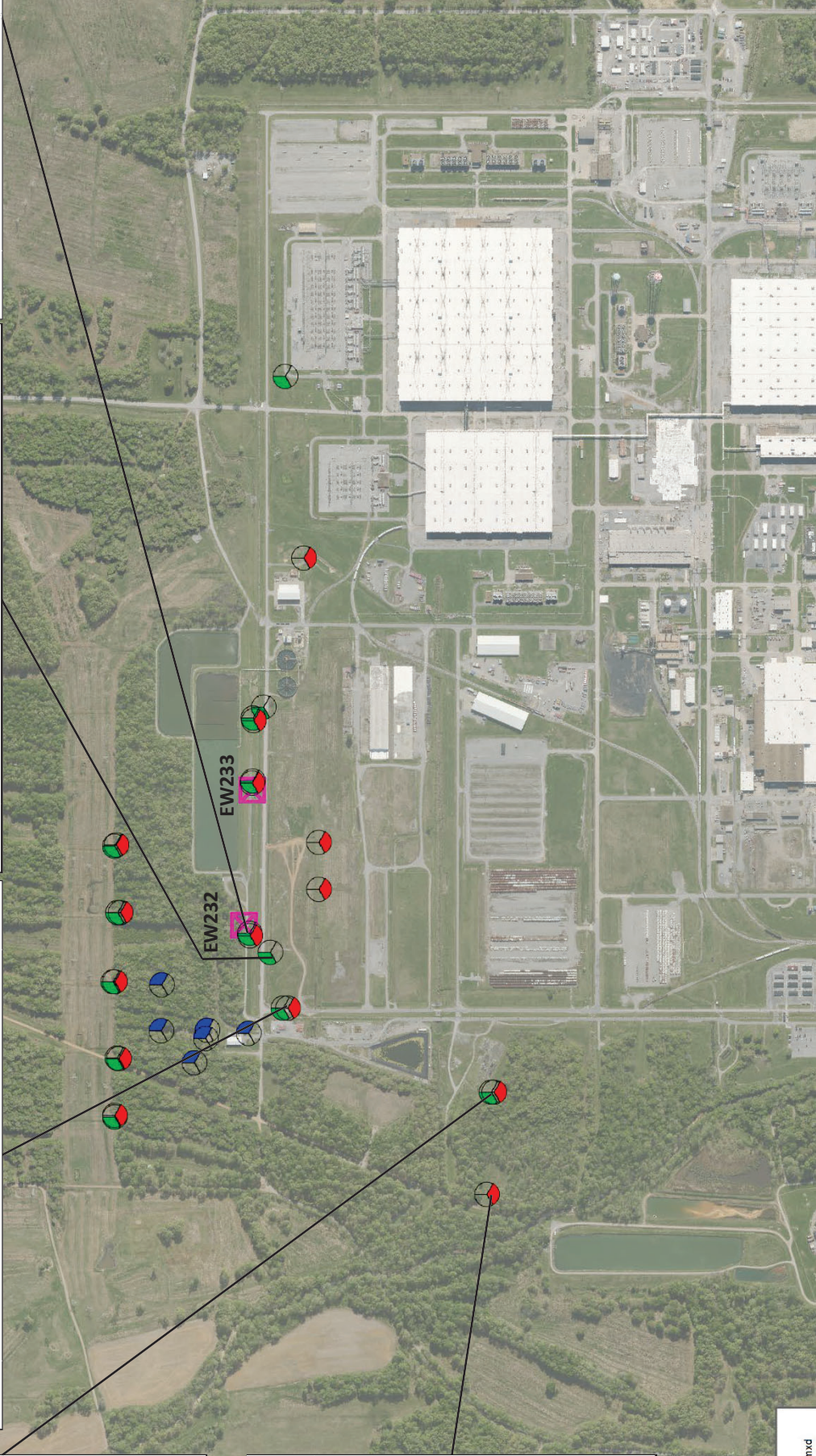
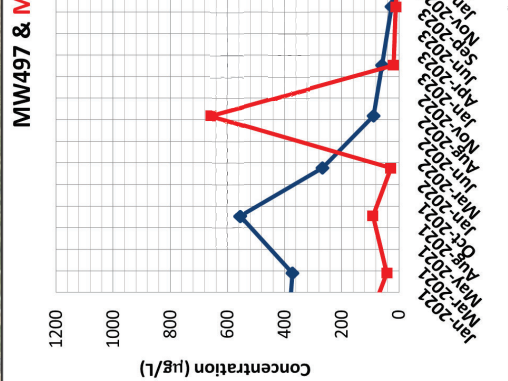
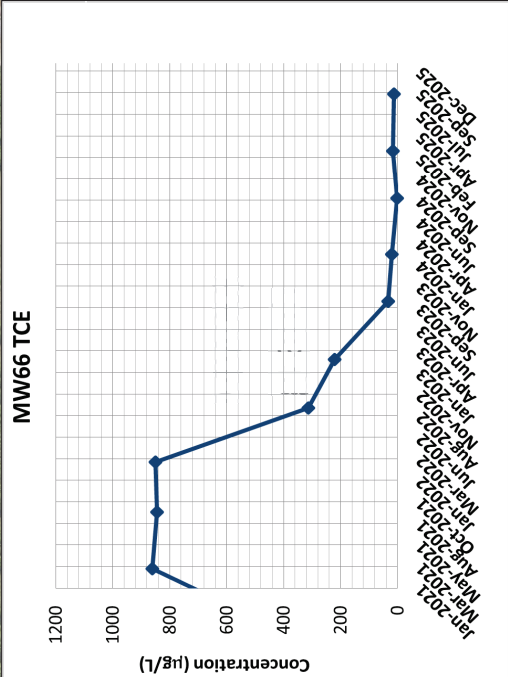
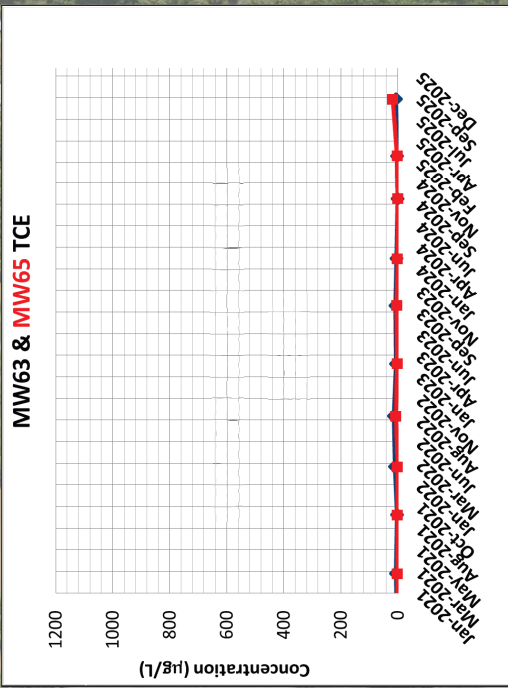
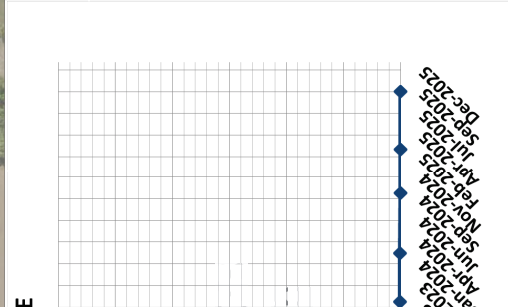
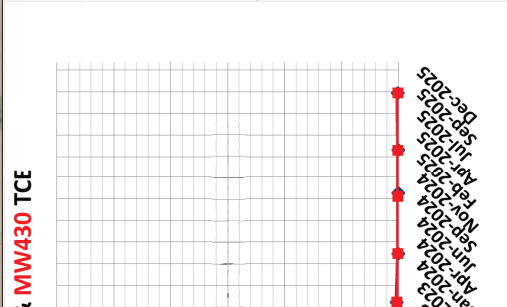
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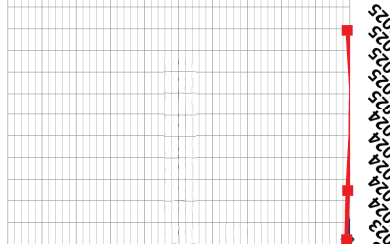


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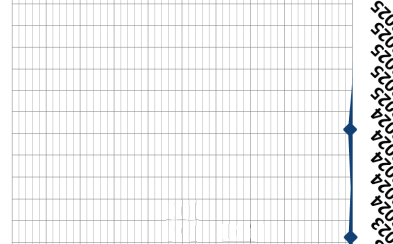


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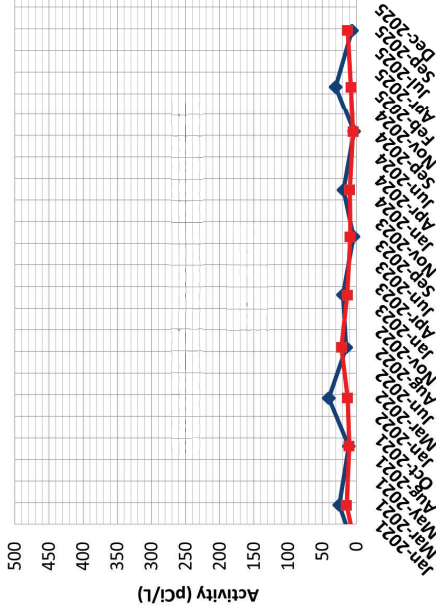
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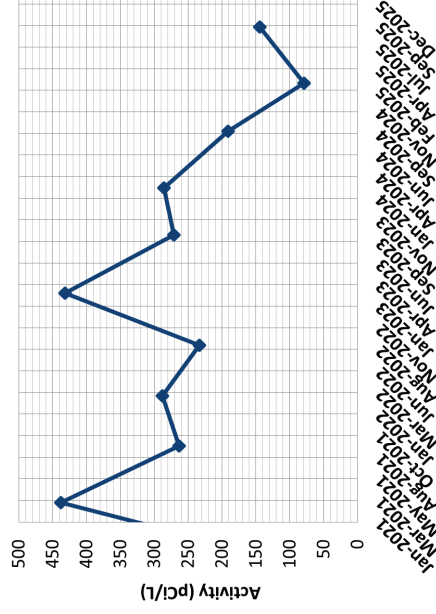
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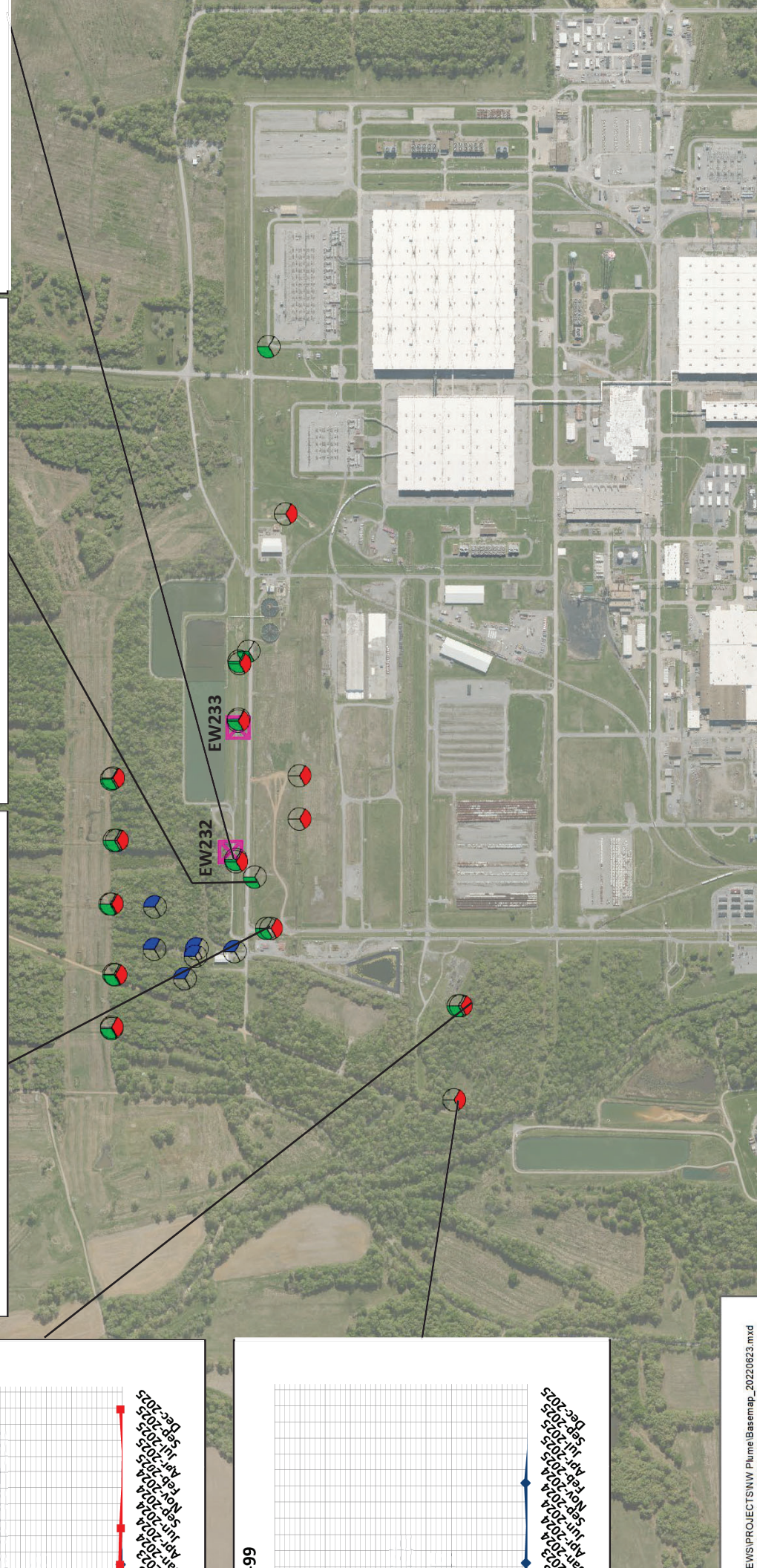
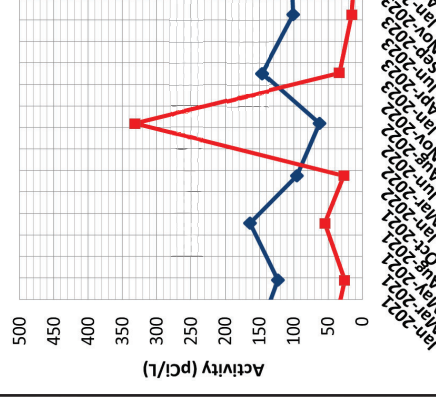
MW63 & MW65 Tc-99



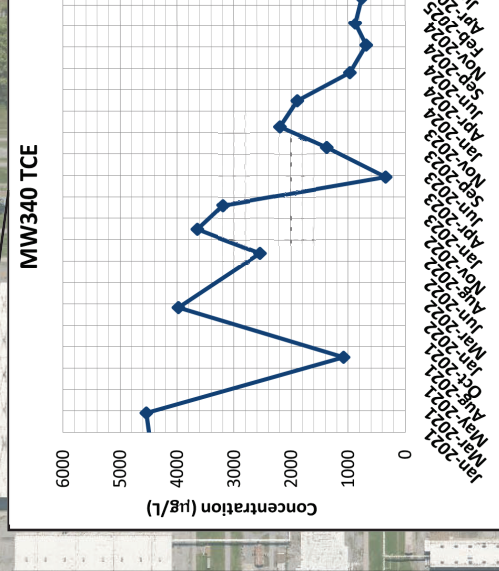
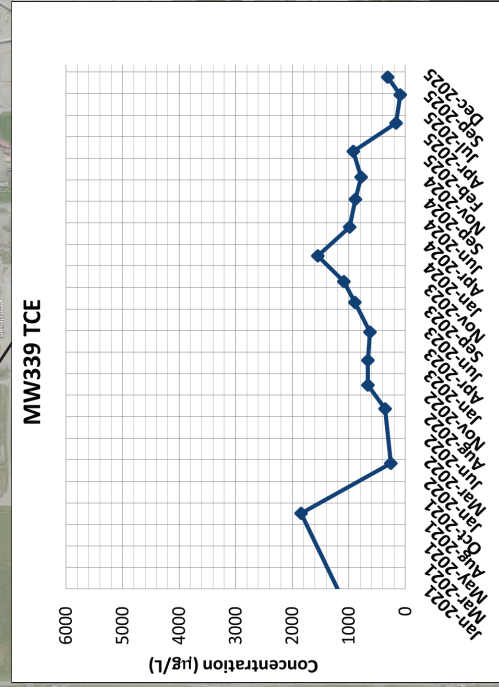
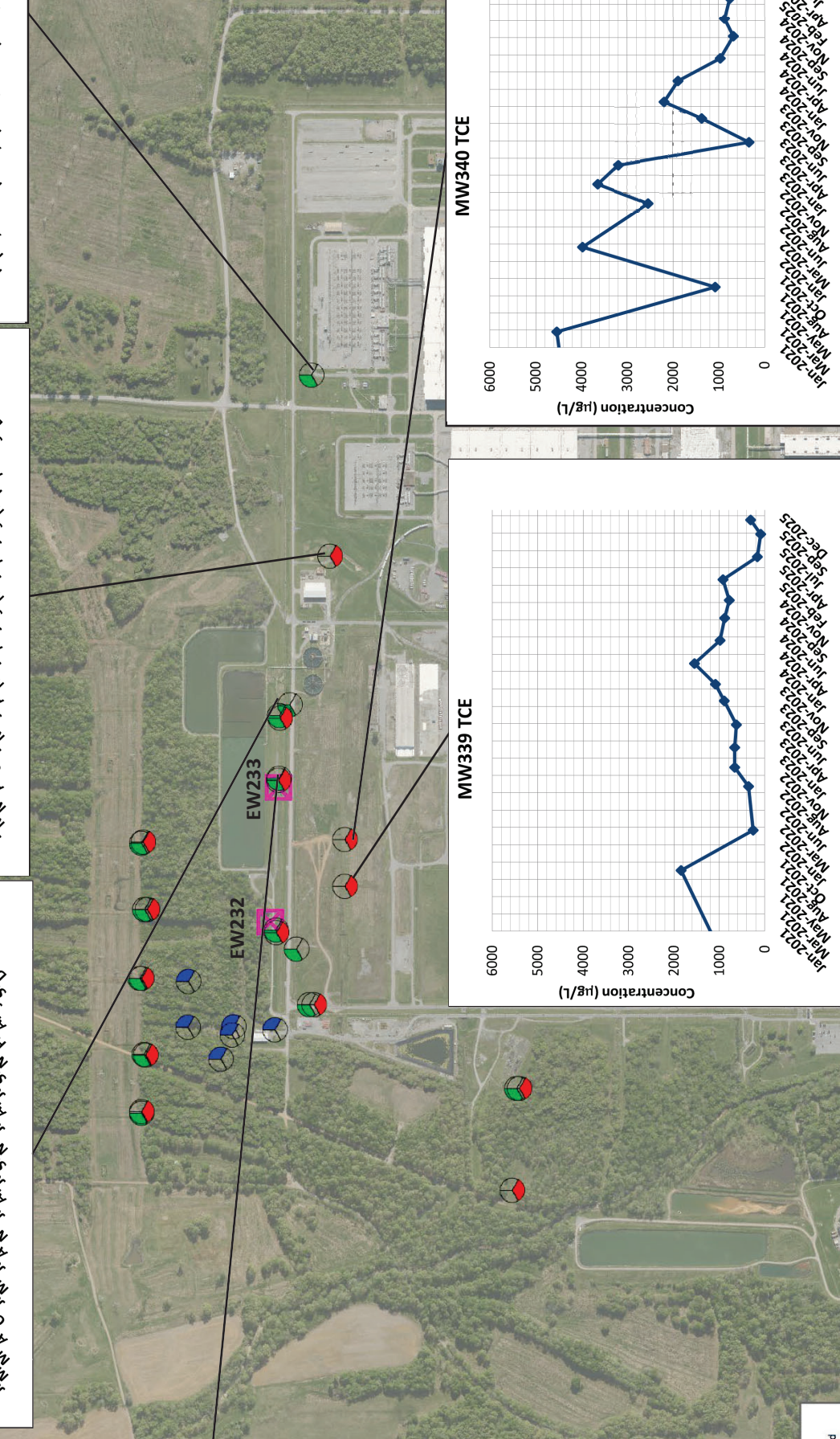
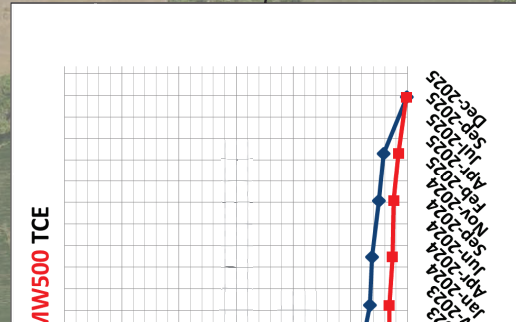
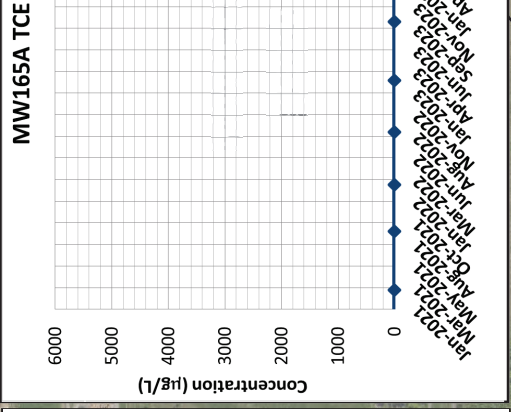
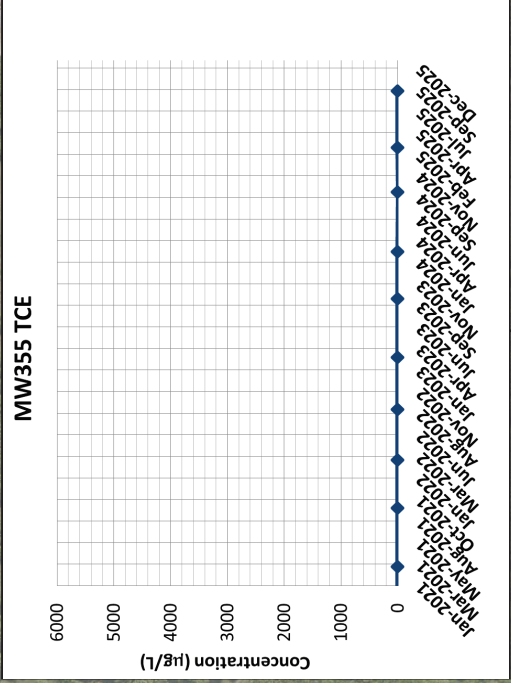
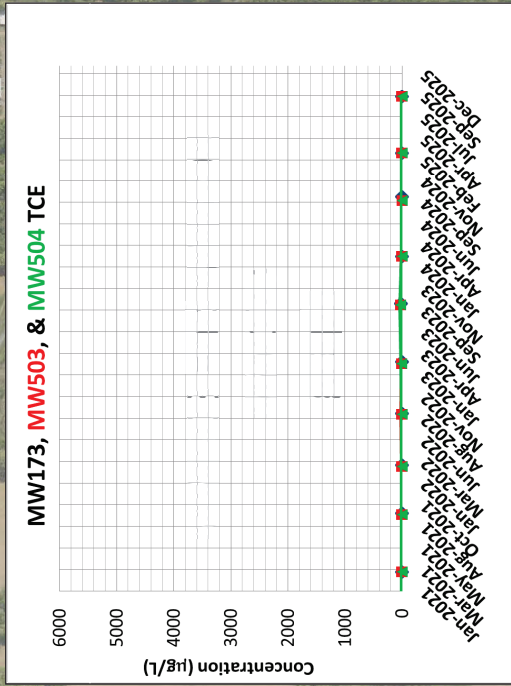
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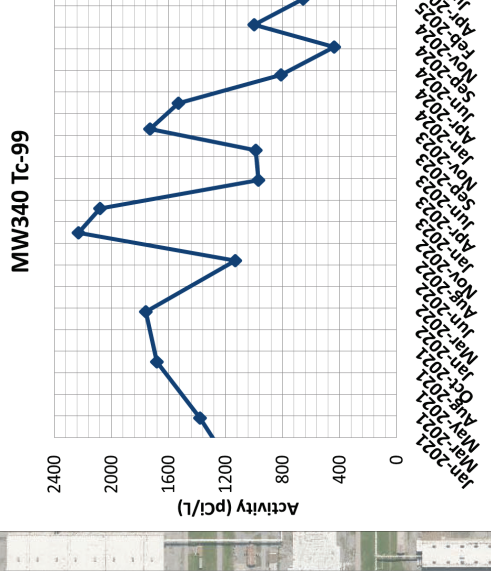
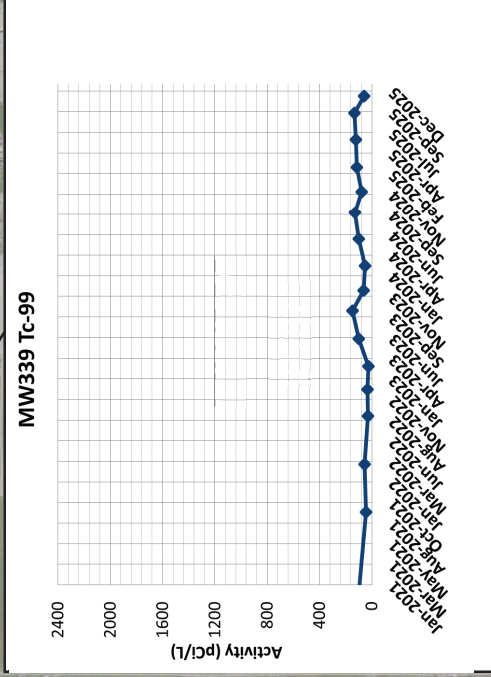
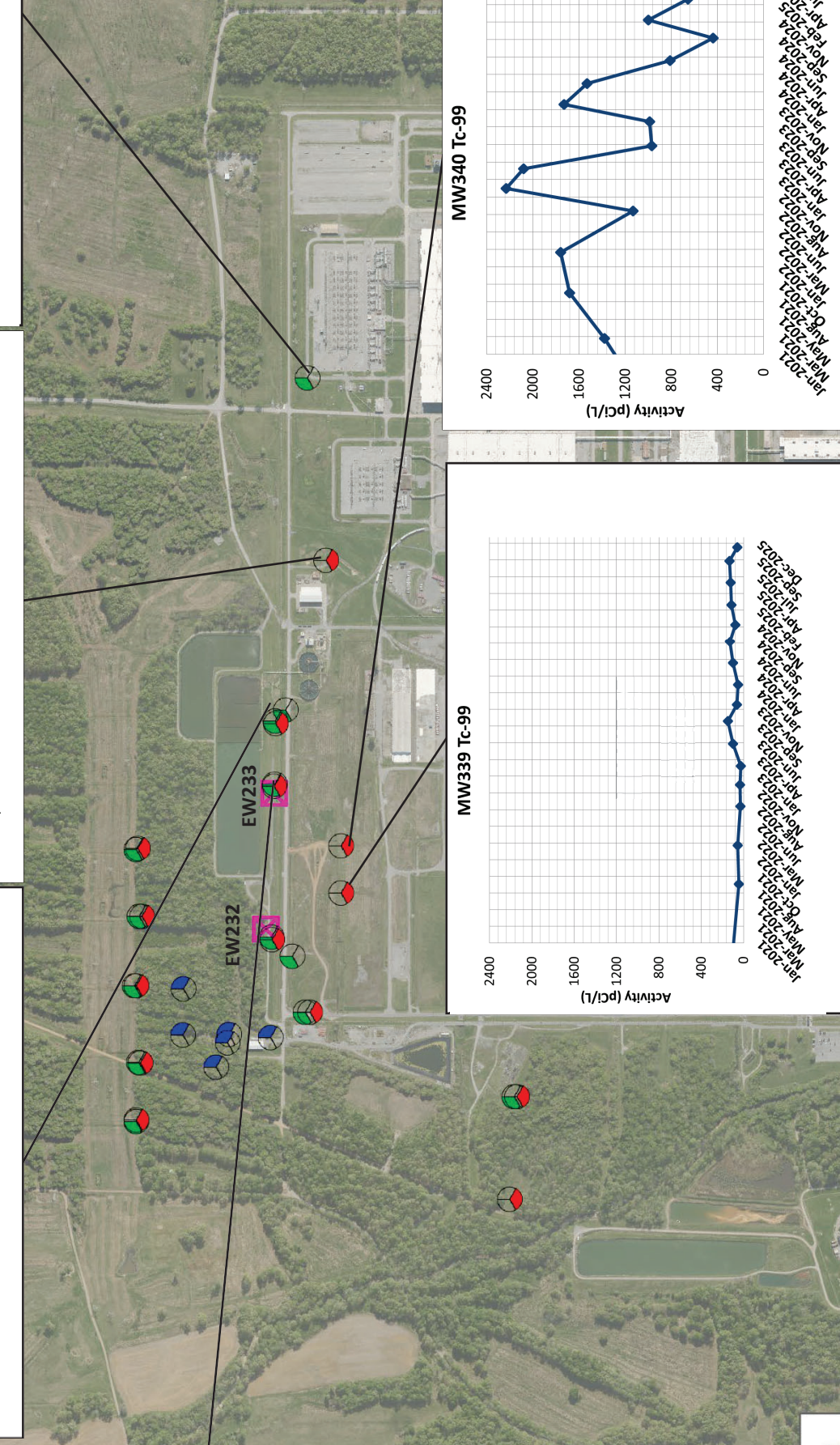
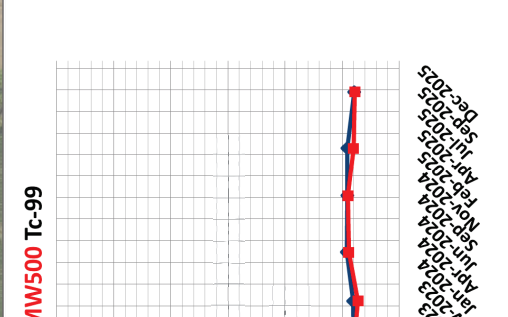
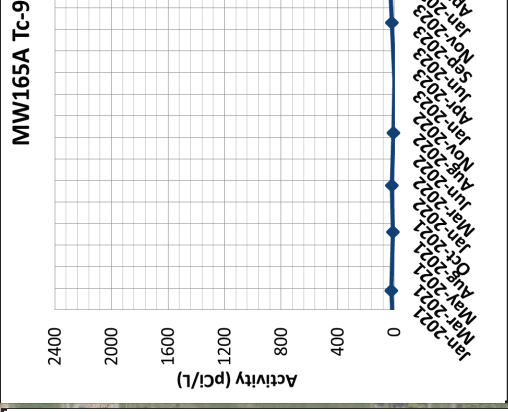
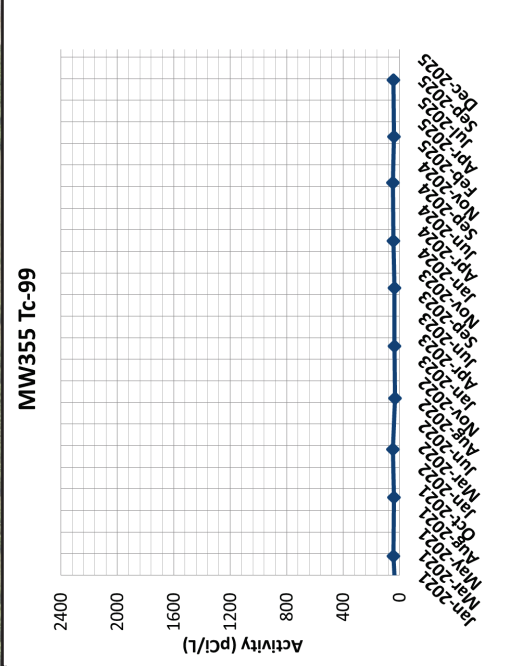
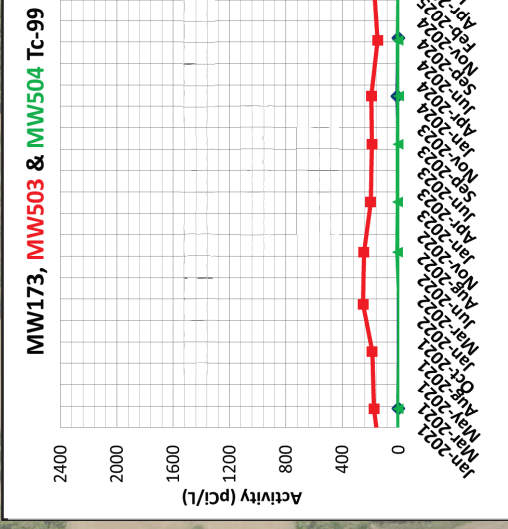
MW497 & MW498

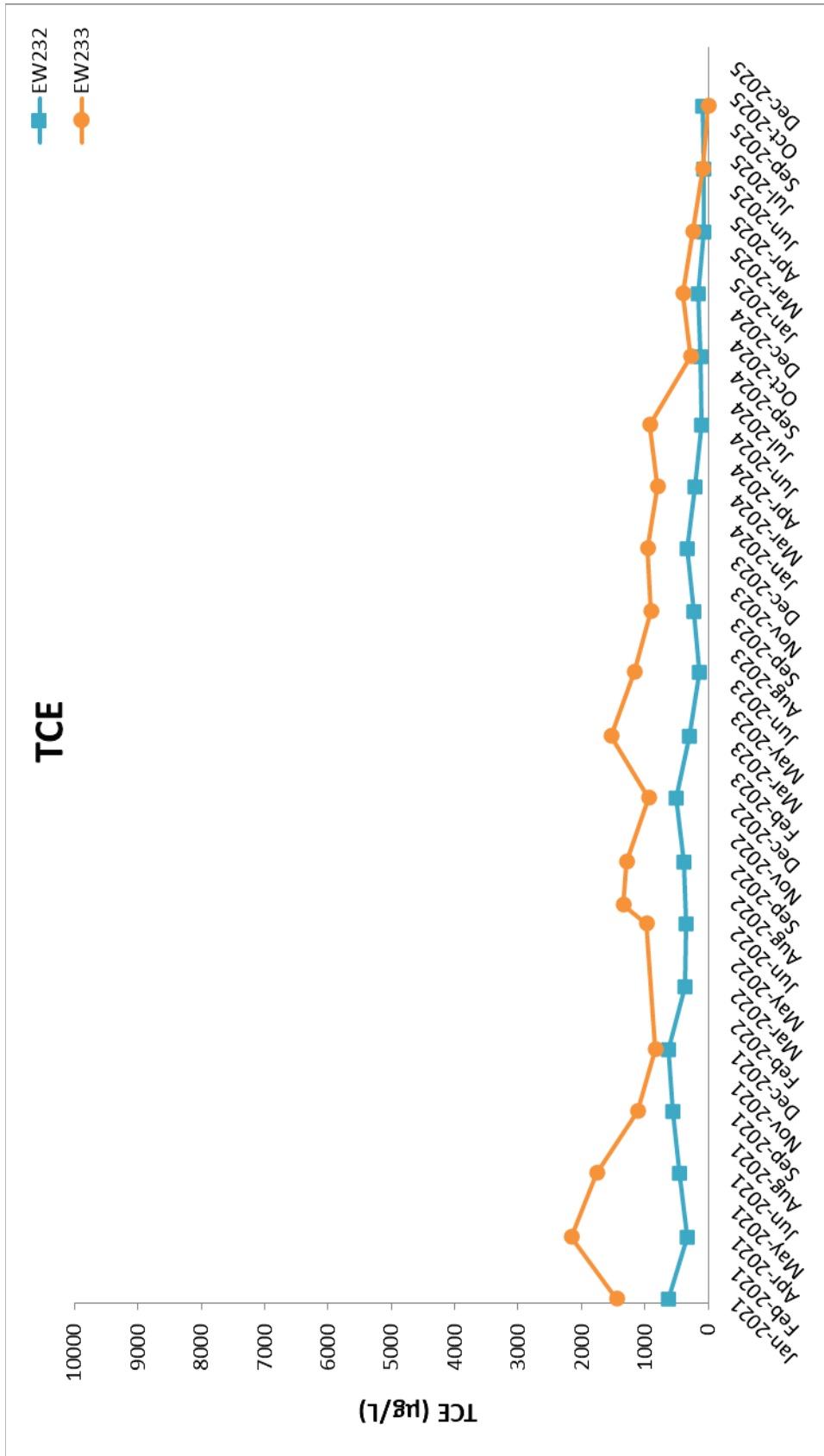


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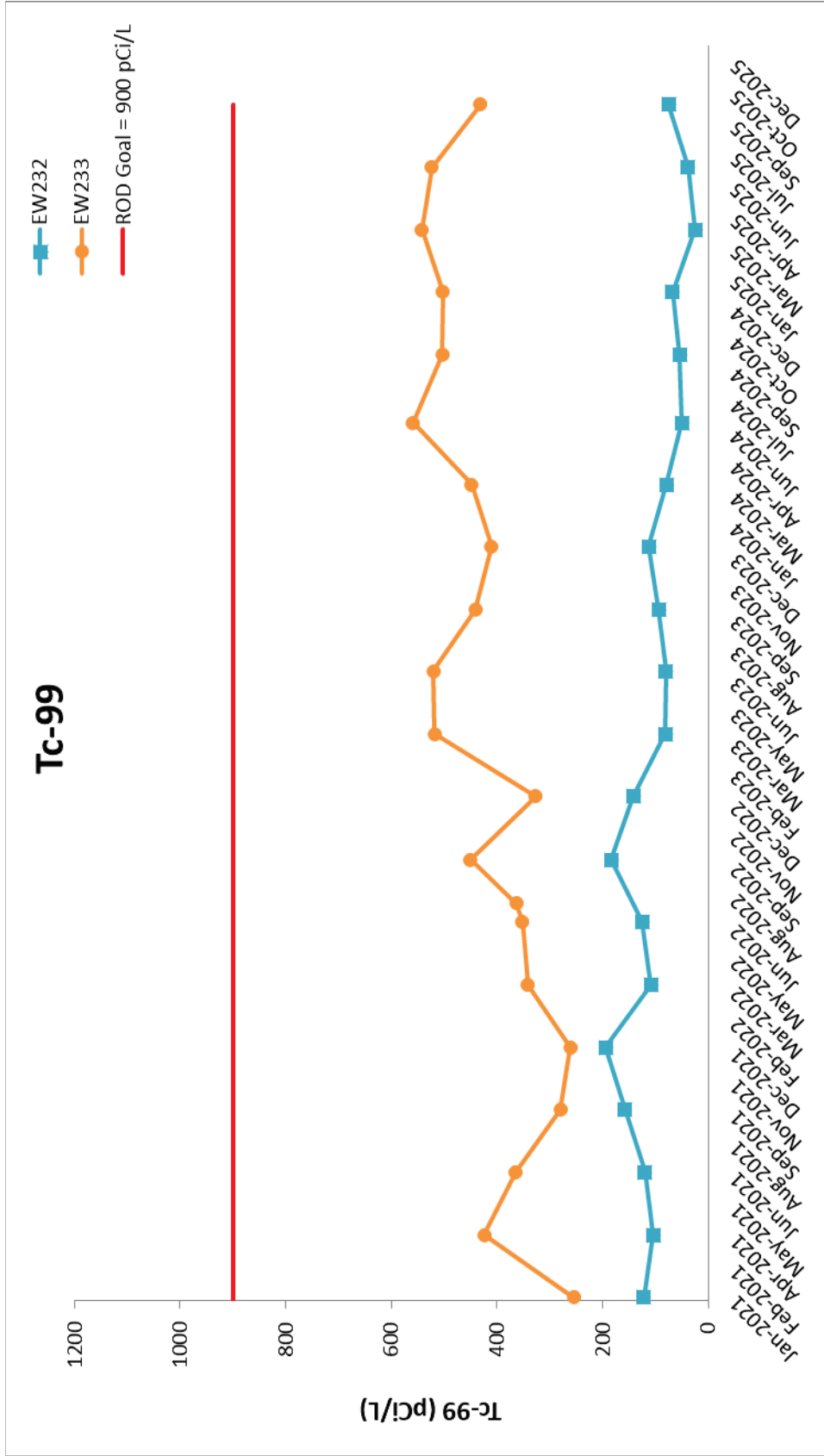
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NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.29. Northwest Plume—TCE Concentrations in Extraction Wells



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.30. Northwest Plume—Tc-99 Activities in Extraction Wells

**APPENDIX C**

**C-746-K LANDFILL (SWMU 8) DATA**

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**APPENDIX D**

**ADMINISTRATIVE RECORD,  
POST-DECISION RECORD, AND ADMINISTRATIVE RECORD  
REFERENCE INDICES**

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Table D.1. Paducah Documents Added to the Administrative Record Files—Fourth Quarter CY 2025

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
ARF BGOU	2/4/2016	PPPO-02-3388057-16	RESPONSE TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY CONCERNING FORMAL DISPUTE RESOLUTION ASSOCIATED WITH SOLID WASTE MANAGEMENT UNITS 2, 3, 7, AND 30 FOR THE BURIAL GROUNDS OPERABLE UNIT	DOE	USEPA-4	ISSC-RMDC-PPPO-02-3388057-16-RESPONSE TO EPA SWMU 2 3 7 30-2016-02-04	11/18/2025
ARF BGOU 2/3/7/30	2/4/2016	PPPO-02-3388057-16	RESPONSE TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY CONCERNING FORMAL DISPUTE RESOLUTION ASSOCIATED WITH SOLID WASTE MANAGEMENT UNITS 2, 3, 7, AND 30 FOR THE BURIAL GROUNDS OPERABLE UNIT	DOE	USEPA-4	ISSC-RMDC-PPPO-02-3388057-16-RESPONSE TO EPA SWMU 2 3 7 30-2016-02-04	11/18/2025
ARF DD	9/30/2025	FR-25-1132, DOE/ LX/07-2514&D2	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 4 ACKNOWLEDGEMENT OF RECEIPT AND CONCURRENCE OF THE COMBINED SCOPING DOCUMENT AND WORK PLAN FOR THE D2 DEACTIVATION AND DECOMMISSIONING REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, ON SEPTEMBER 18, 2025, DOE/LX/07-2514&D2	USEPA-4	DOE	ISSC-RMDC-FR-25-1132-EPA CONCUR SCOPING DOC AND DD RIFS-2025-09-30	10/21/2025
ARF DD	10/14/2025	FR-26-1140, DOE/ LX/07-2514&D2	KENTUCKY DIVISION OF WASTE MANAGEMENT CONCURRENCE WITH THE SCOPING DOCUMENT AND WORK PLAN FOR THE DEACTIVATION AND DECOMMISSIONING REMEDIAL INVESTIGATION / FEASIBILITY STUDY (DOE/LX/07-2514&D2) PADUCAH SITE PADUCAH, MCCracken COUNTY, KENTUCKY #KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1140-KY CONCUR SCOPING DOC AND DD RIFS-2025-10-14	10/21/2025
ARF DD	9/18/2025	PPPO-02-10034673-25, DOE/LX/07-2514&D2	TRANSMITTAL OF THE SCOPING DOCUMENT AND WORK PLAN FOR THE DEACTIVATION AND DECOMMISSIONING REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, DOE/LX/07-2514&D2	DOE	USEPA-4, KDEP	ISSC-RMDC-PPPO-02-10034673-25-TRANSMIT SCOPING DOC DD RIFS-2025-09-18	10/21/2025
ARF ENV/MEDIA	9/30/2025	FR-25-1133, DOE/ LX/07-2515&D2	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 4 ACKNOWLEDGEMENT OF RECEIPT AND CONCURRENCE OF THE COMBINED SCOPING DOCUMENT AND WORK PLAN FOR THE D2 ENVIRONMENTAL MEDIA REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, DOE/ LX/07-2515&D2	USEPA-4	DOE	ISSC-RMDC-FR-25-1133-EPA CONCUR SCOP DOC AND ENV RIFS-2025-09-30	10/21/2025
ARF ENV/MEDIA	9/16/2025	PPPO-02-10034648-25, DOE/LX/07-2515&D2	TRANSMITTAL OF THE SCOPING DOCUMENT AND WORK PLAN FOR THE ENVIRONMENTAL MEDIA REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY DOE/LX/07-2515&D2	DOE	USEPA-4, KDEP	ISSC-RMDC-PPPO-02-10034648-25-TRANSMIT SCOPING DOC AND ENV RIFS-2025-09-16	10/21/2025
ARF ENV/MEDIA	10/13/2025	FR-26-1138, DOE/ LX/07-2515&D2	KENTUCKY DIVISION OF WASTE MANAGEMENT CONCURRENCE WITH THE SCOPING DOCUMENT AND WORK PLAN FOR THE ENVIRONMENTAL MEDIA REMEDIAL INVESTIGATION / FEASIBILITY STUDY (DOE/ LX/07-2515&D2) PADUCAH SITE PADUCAH, MCCracken COUNTY, KENTUCKY #KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1138-KY CONCUR SCOPING DOC AND ENV RIFS-2025-10-13	10/21/2025
ARF WDA	9/25/2025	FR-25-1131, DOE/ LX/07-2507&D1/R1	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 4 ACKNOWLEDGEMENT OF RECEIPT AND CONCURRENCE ON THE D1/R1 GEOTECHNICAL SAMPLING AND ANALYSIS PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT, DOE/LX/07-2507&D1/R1	USEPA-4	DOE	ISSC-RMDC-FR-25-1131-EPA CONCUR GEOTECH SAMP-2025-09-25	10/21/2025
ARF WDA	10/9/2025	FR-26-1135, DOE/ LX/07-2507&D1/R1	KENTUCKY DIVISION OF WASTE MANAGEMENT SUBMITTAL OF A COMMENT TO THE GEOTECHNICAL SAMPLING AND ANALYSIS PLAN FOR THE WASTE DISPOSAL ALTERNATIVES PROJECT (REVISED) (DOE/ LX/07-2507&D1/R1) PADUCAH SITE PADUCAH, MCCracken COUNTY, KENTUCKY #KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1135-COMMENT GEOTECH SAMP PLAN-2025-10-09	10/21/2025

Table D.1. Paducah Documents Added to the Administrative Record Files—Fourth Quarter CY 2025 (Continued)

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
ARF WDA	10/10/2025	FR-26-1137, DOE/LX/07-2507&D1/R1	KENTUCKY DIVISION OF WASTE MANAGEMENT CONCURRENCE WITH THE GEOTECHNICAL SAMPLING AND ANALYSIS PLAN FOR THE WASTE DISPOSAL ALTERNATIVES PROJECT (REVISED) (DOE/LX/07-2507&D1/R1) PADUCAH SITE PADUCAH, MCCRACKEN COUNTY, KENTUCKY #KY8-890-008-982.	KDEP	DOE	ISSC-RMDC-FR-26-1137-KY CONCUR GEOTECH SAMP AND ANA PLN-2025-10-10	10/21/2025

Table D.2. Paducah Documents Added to the Post-Decision Files—Fourth Quarter CY 2025

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
1/7-PD	9/24/2025	SA-FY25-0091	SOUTHWEST PLUME AND WASTE AREA GROUPING (WAG) 1&7 LAND USE CONTROL (LUC) IMPLEMENTATION - SITE MANAGEMENT PLAN	FRNP	FRNP	ISSC-RMDC-SA-FY25-0091-WAG 1 7 LUC SMP-2025-09-24	10/21/2025
24-PD	11/20/2025	PPPO-02-10035168-26	TRANSMITTAL OF THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHWEST STORM WATER CONTROL FACILITY AT THE PADUCAH GASEOUS DIFFUSION PLANT PADUCAH, KENTUCKY, DOE/OR/07-2044&D1/R5	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10035168-26-STORM WATER FACILITY-2025-11-20	12/17/2025
24-PD	11/24/2025	FR-26-1146	KENTUCKY DEPARTMENT OF WASTE MANAGEMENT CONCURRENCE WITH THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHWEST STORM WATER CONTROL FACILITY (DOE/LX/07-2044&D1/R5) PADUCAH SITE PADUCAH, MCCrackEN COUNTY, KENTUCKY KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1146-NW STORM WATER FACILITY-2025-11-24	12/17/2025
24-PD	11/20/2025	FR-26-1145	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 4 CONCURRENCE ON THE NOVEMBER 20, 2025, D1/R5 OPERATION AND MAINTENANCE PLAN FOR THE NORTHWEST STORM WATER CONTROL FACILITY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/OR/07-2044&D1/R5)	USEPA-4	DOE	ISSC-RMDC-FR-26-1145-NW STORM WATER FACILITY-2025-11-20	12/17/2025
24-PD	10/8/2025	FR-26-1134; DOE/OR/07-2044&D1/R5	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 4 COMMENTS ON THE D1/R5 OPERATION AND MAINTENANCE PLAN FOR THE NORTHWEST STORM WATER CONTROL FACILITY AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/OR/07-2044&D1/R5)	USEPA-4	DOE	ISSC-RMDC-FR-26-1134-EPA COMMENTS OM PLAN NW STORM FAC-2025-10-08	10/21/2025
24-PD	9/30/2025	PPPO-02-10034706-25, DOE/OR/07-2044&D1/R5	TRANSMITTAL OF THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHWEST STORM WATER CONTROL FACILITY AT THE PADUCAH GASEOUS DIFFUSION PLANT PADUCAH, KENTUCKY, DOE/OR/07-2044&D1/R5	DOE	USEPA-4, KDEP	ISSC-RMDC-PPPO-02-10034706-25-TRANS OM NW STORM FAC-2025-09-30	10/21/2025
24-PD	10/10/2025	FR-26-1136, DOE/LX/07-2044&D1/R5	KENTUCKY DIVISION OF WASTE MANAGEMENT SUBMITTAL OF COMMENTS TO THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHWEST STORM WATER CONTROL FACILITY (DOE/LX/07-2044&D1/R5) PADUCAH SITE PADUCAH, MCCrackEN COUNTY, KENTUCKY KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1136-KY COMMENTS OM NW STORM FAC-2025-10-10	10/21/2025
24-PD	10/16/2025	N/A	REOPENING OF ADMINISTRATIVE RECORD FILE AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY	DOE	EIC	ISSC-RMDC-REOPEN 24-PD-2025-10-16	10/21/2025
C400SOURCE-PD	9/23/2025	SA-FY25-0087	C-400 AND NORTH SOUTH DIVERSION DITCH (NSDD) LAND USE CONTROL IMPLEMENTATION PLAN (LUCIP)-SITE MANAGEMENT PLAN	FRNP	FRNP	ISSC-RMDC-SA-FY25-0087-C400 NS LUCIP SMP-2025-09-23	10/21/2025

Table D.2. Paducah Documents Added to the Post-Decision Files—Fourth Quarter CY 2025 (Continued)

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
NSDD-PD	11/25/2025	CP3-ES-0041-F18	CP3-ES-0041-F18-WINTERIZATION CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-NOVEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F18-WINTERIZATION CHKLST-2025-11-25	12/17/2025
NSDD-PD	11/24/2025	CP3-ES-0041-F07	CP3-ES-0041-F07-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (STORM EVENT)-NOVEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F07-NS WKLY CHKLST-2025-11-24	12/17/2025
NSDD-PD	11/3/2025	CP3-ES-0041-F04	CP3-ES-0041-F04-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (QUARTERLY)-NOVEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F04-NS WKLY CHKLST-2025-11-03	12/17/2025
NSDD-PD	11/24/2025	CP3-ES-0041-F03	CP3-ES-0041-F03-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-NOVEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F03-NS WKLY CHKLST-2025-11-24	12/17/2025
NSDD-PD	10/27/2025	CP3-ES-0041-F07	CP3-ES-0041-F07 - WALKTHROUGH CHECKLIST- NORTH-SOUTH DIVERSION DITCH (STORM EVENT) - OCTOBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F07-NS STORM CHKLST-2025-10-27	11/18/2025
NSDD-PD	10/27/2025	CP3-ES-0041-F03	CP3-ES-0041-F03 - WALKTHROUGH CHECKLIST - NORTH-SOUTH DIVERSION DITCH (WEEKLY) - OCTOBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F03-NS WEEKLY CHKLST-2025-10-17	11/18/2025
NSDD-PD	9/23/2025	SA-FY25-0087	C-400 AND NORTH SOUTH DIVERSION DITCH (NSDD) LAND USE CONTROL IMPLEMENTATION PLAN (LUCIP)-SITE MANAGEMENT PLAN	FRNP	FRNP	ISSC-RMDC-SA-FY25-0087-C400 NS LUCIP SMP-2025-09-23	10/21/2025
NSDD-PD	9/22/2025	CP3-ES-0041-F07	CP3-ES-0041-F07 - WALKTHROUGH CHECKLIST- NORTH-SOUTH DIVERSION DITCH (STORM EVENT) - SEPTEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F07-NS STORM EVENT-2025-09-22	10/21/2025
NSDD-PD	9/8/2025	CP3-ES-0041-F06	CP3-ES-0041-F06 - WALKTHROUGH CHECKLIST- NORTH-SOUTH DIVERSION DITCH (ANNUAL)	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F06-NS ANNUAL CHKLST-2025-09-08	10/21/2025
NSDD-PD	9/29/2025	CP3-ES-0041-F03	CP3-ES-0041-F03 - WALKTHROUGH CHECKLIST- NORTH-SOUTH DIVERSION DITCH (WEEKLY) - SEPTEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F03-NS WKLY CHKLST-2025-09-29	10/21/2025

**Table D.2. Paducah Documents Added to the Post-Decision Files—Fourth Quarter CY 2025 (Continued)**

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
SWP-PD	11/3/2025	CP3-ES-0041-F15	CP3-ES-0041-F15-QUARTERLY SOUTHWEST PLUME SOLID WASTE MANAGEMENT UNIT INSPECTIONS-NOVEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F15-QUARTERLY INSPECTIONS-2025-11-03	12/17/2025
SWP-PD	9/24/2025	SA-FY25-0091	SOUTHWEST PLUME AND WASTE AREA GROUPING (WAG) 1&7 LAND USE CONTROL (LUC) IMPLEMENTATION - SITE MANAGEMENT PLAN	FRNP	FRNP	ISSC-RMDC-SA-FY25-0091-WAG 1 7 LUC SMP-2025-09-24	10/21/2025

**Table D.3. Paducah Documents Added to the Administrative Record Reference Files—Fourth Quarter CY 2025**

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
ARF ARR	11/14/2025	PPPO-02-10035548-26	PADUCAH FEDERAL FACILITY AGREEMENT BUDGET NOTIFICATION-CONTINUING RESOLUTION	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10035548-26-BUDGET NOTIFICATION-2025	12/17/2025
ARF ARR	12/5/2025	FR-26-1149	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 4 COMMENTS FOR THE D1 FISCAL YEAR 2026 SITE MANAGEMENT PLAN (DOE/LX/07-2526&D1)	USEPA-4	DOE	ISSC-RMDC-FR-26-1149-EPA COMMENTS R4-2025-12-05	12/17/2025
ARF ARR	11/19/2025	FR-26-1144	KENTUCKY DEPARTMENT OF WASTE MANAGEMENT SUBMITTAL OF COMMENTS TO THE 2026 SITE MANAGEMENT PLAN (DOE/LX/07-2562&D1) PADUCAH SITE PADUCAH, MCCracken COUNTY, KENTUCKY KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1144-SUBMITTAL OF COMMENTS-2025-11-19	12/17/2025
ARF ARR	11/12/2025	PPPO-02-10035455-26	LISTING OF MEMORANDUMS OF AGREEMENT RESULTING FROM PADUCAH FEDERAL FACILITY AGREEMENT FORMAL DISPUTE RESOLUTIONS, INFORMAL DISPUTE RESOLUTIONS, AND RESOLUTIONS OF OTHER FEDERAL FACILITY AGREEMENT PROJECTS	DOE	USEPA-4; DOE	ISSC-RMDC-PPPO-02-10035455-26-MOA FFA DISPUTE-2025-11-12	11/18/2025
ARF ARR	11/12/2025	PPPO-02-10035341-26, DOE/LX/07-2526&D1	TRANSMITTAL OF THE D1 SITE MANAGEMENT PLAN PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY ANNUAL REVISION-FISCAL YEAR 2026, DOE/LX/07-2526&D1	DOE	USEPA-4; DOE	ISSC-RMDC-PPPO-02-10035341-26-TRANSMIT D1 SMP-2025-11-12	11/18/2025
ARF ARR	10/16/2025	PPPO-02-10035225-26	PADUCAH FEDERAL FACILITY AGREEMENT BUDGET NOTIFICATION-PARTIAL GOVERNMENT SHUTDOWN	DOE	USEPA-4; DOE	ISSC-RMDC-PPPO-02-10035225-26-FFA BUDGET NOT-2025-10-16	11/18/2025

Table D.4. Paducah Documents Added to the Administrative Record Files—First Quarter CY 2026

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
<b>No Submissions</b>							

Table D.5. Paducah Documents Added to the Post-Decision Files—First Quarter CY 2026

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
NSDD-PD	2/25/2026	CP3-ES-0041-F18	CP3-ES-0041-F18-WINTERIZATION CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-FEBRUARY 2026	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F18-WINTERIZATION CHECKLIST-2026-02-25	3/1/2026
NSDD-PD	2/18/2026	CP3-ES-0041-F05	CP3-ES-0041-F05-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (NSDD) SURGE BASIN/CONCRETE DITCH (SEMI-ANNUAL)-FEBRUARY 2026	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F05-WALKTHROUGH CHECKLIST-2026-02-18	3/1/2026
NSDD-PD	2/18/2026	CP3-ES-0041-F04	CP3-ES-0041-F04-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (QUARTERLY)-FEBRUARY 2026	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F04-WALKTHROUGH CHECKLIST-2026-02-18	3/1/2026
NSDD-PD	2/23/2026	CP3-ES-0041-F03	CP3-ES-0041-F03-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-FEBRUARY 2026	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F03-WALKTHROUGH CHECKLIST-2026-02-23	3/1/2026
NSDD-PD	1/28/2026	CP3-ES-0041-F18	CP3-ES-0041-F18-WINTERIZATION CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-JANUARY 2026	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F18-WINTERIZATION CHECKLIST-2026-01-28	2/16/2026
NSDD-PD	1/28/2026	CP3-ES-0041-F03	CP3-ES-0041-F03 - WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-JANUARY 2026	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F03-WALKTHROUGH CHECKLIST-2026-01-28	2/16/2026
1/7-PD	12/16/2025	CP3-ES-0041-F20	CP3-ES-0041-F20-WALKTHROUGH CHECKLIST-SOLID WASTE MANAGEMENT UNIT 100-DECEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F20-WALKTHROUGH CHECKLIST-2025-12-16	1/15/2026
NSDD-PD	12/31/2025	CP3-ES-0041-F18	CP3-ES-0041-F18-WINTERIZATION CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-DECEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F18-WINTERIZATION CHECKLIST-2025-12-31	1/15/2026
1/7-PD	12/22/2025	CP3-ES-0041-F12	CP3-ES-0041-F12-WALKTHROUGH CHECKLIST-C-746-K LANDFILL-DECEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F12-WALKTHROUGH CHECKLIST-2025-12-22	1/15/2026

Table D.5. Paducah Documents Added to the Post-Decision Files—First Quarter CY 2026 (Continued)

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
NSDD-PD	12/29/2025	CP3-ES-0041-F03	CP3-ES-0041-F03-WALKTHROUGH CHECKLIST-NORTH-SOUTH DIVERSION DITCH (WEEKLY)-DECEMBER 2025	FRNP	DOE	ISSC-RMDC-CP3-ES-0041-F03-WALKTHROUGH CHECKLIST-2025-12-29	1/15/2026

Table D.6. Paducah Documents Added to the Administrative Record Reference Files—First Quarter CY 2026

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Name	Date Added
ARF ARR	3/11/2026	FR-26-1174	FISH AND WILDLIFE SERVICE PROJECT CODE: 2026-0051350 NEW PUMP AND TREAT FACILITY AT PADUCAH GASEOUS DIFFUSION PLANT BALLARD COUNTY, KENTUCKY	FWS	FRNP	ISSC-RMDC-FR-26-1174-PUMP AND TREAT FACILITY-2026-03-11	3/12/2026
ARF ARR	2/2/2026	PPPO-02-10036140-26; DOE/LX/07-2526&D2	PADUCAH FEDERAL FACILITY AGREEMENT SIGNED MODIFICATION-FISCAL YEAR 2026 SITE MANAGEMENT PLAN, ENFORCEABLE COMMITMENTS, AND LIST OF SOLID WASTE MANAGEMENT UNIT AREAS OF CONCERN	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10036140-26-PAD FFA MOD SMP COMMITMENTS-2026-02-02	2/16/2026
ARF ARR	1/23/2026	PPPO-02-10036066-26; DOE/LX/07-2526&D2	PADUCAH FEDERAL FACILITY AGREEMENT MODIFICATION-FISCAL YEAR 2026 SITE MANAGEMENT PLAN, ENFORCEABLE COMMITMENTS, AND LIST OF SOLID WASTE MANAGEMENT UNIT AREAS OF CONCERN	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10036066-26-PAD FFA MOD SMP	2/16/2026
ARF ARR	1/15/2026	PPPO-02-10036004-26	PADUCAH FEDERAL FACILITY AGREEMENT MODIFICATION-MINOR TEXT UPDATES FOR BUDGET SECTIONS XVIII.D, BUDGET PLANNING, AND XVIII.E, BUDGET EXECUTION FOR THE CURRENT FISCAL YEAR	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10036004-26-PAD FFA MOD BUDGET	2/16/2026
ARF ARR	1/12/2026	PPPO-02-10035940-26; DOE/OR/07-1707; PRS-035	PADUCAH FEDERAL FACILITY AGREEMENT MODIFICATION-MINOR TEXT UPDATES FOR BUDGET SECTIONS XVIII.D, BUDGET PLANNING, AND XVIII.E, BUDGET EXECUTION FOR THE CURRENT FISCAL YEAR	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10035940-26-PAD FFA MOD BUDGET	2/16/2026
ARF ARR	1/26/2026	DOE/OR/07-1707, PRS-035	FEDERAL FACILITY AGREEMENT FOR THE PADUCAH GASEOUS DIFFUSION PLANT 2026 UPDATE	USEPA-4; DOE; KDEP	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10035940-26-PAD FFA MOD BUDGET	2/16/2026
ARF ARR	12/18/2025	PPPO-02-10035601-26, DOE/LX/07-2526&D2	TRANSMITTAL OF THE D2 SITE MANAGEMENT PLAN, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, ANNUAL REVISION-FY 2026, DOE/LX/07-2526&D2	DOE	USEPA-4; KDEP	ISSC-RMDC-PPPO-02-10035601-26-D2 SMP ANNUAL REVISION-2025-12-18	1/15/2026
ARF ARR	12/23/2025	FR-26-1157, DOE/LX/07-2562&D2	KENTUCKY DEPARTMENT OF WASTE MANAGEMENT CONCURRENCE WITH THE 2026 SITE MANAGEMENT PLAN (DOE/LX/07-2562&D2) PADUCAH SITE PADUCAH, MCCracken COUNTY, KENTUCKY KY8-890-008-982	KDEP	DOE	ISSC-RMDC-FR-26-1157-KDWM CONC WITH SMP-2025-12-23	1/15/2026
ARF ARR	12/18/2025	FR-26-1156; DOE/LX/07-2526&D2	U.S. ENVIRONMENTAL PROTECTION AGENCY CONCURRENCE OF THE D2 FISCAL YEAR 2026 SITE MANAGEMENT PLAN (DOE/LX/07-2526&D2)	USEPA-4	DOE	ISSC-RMDC-FR-26-1156-EPA CONC OF SMP-2025-12-18	1/15/2026

**APPENDIX E**

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

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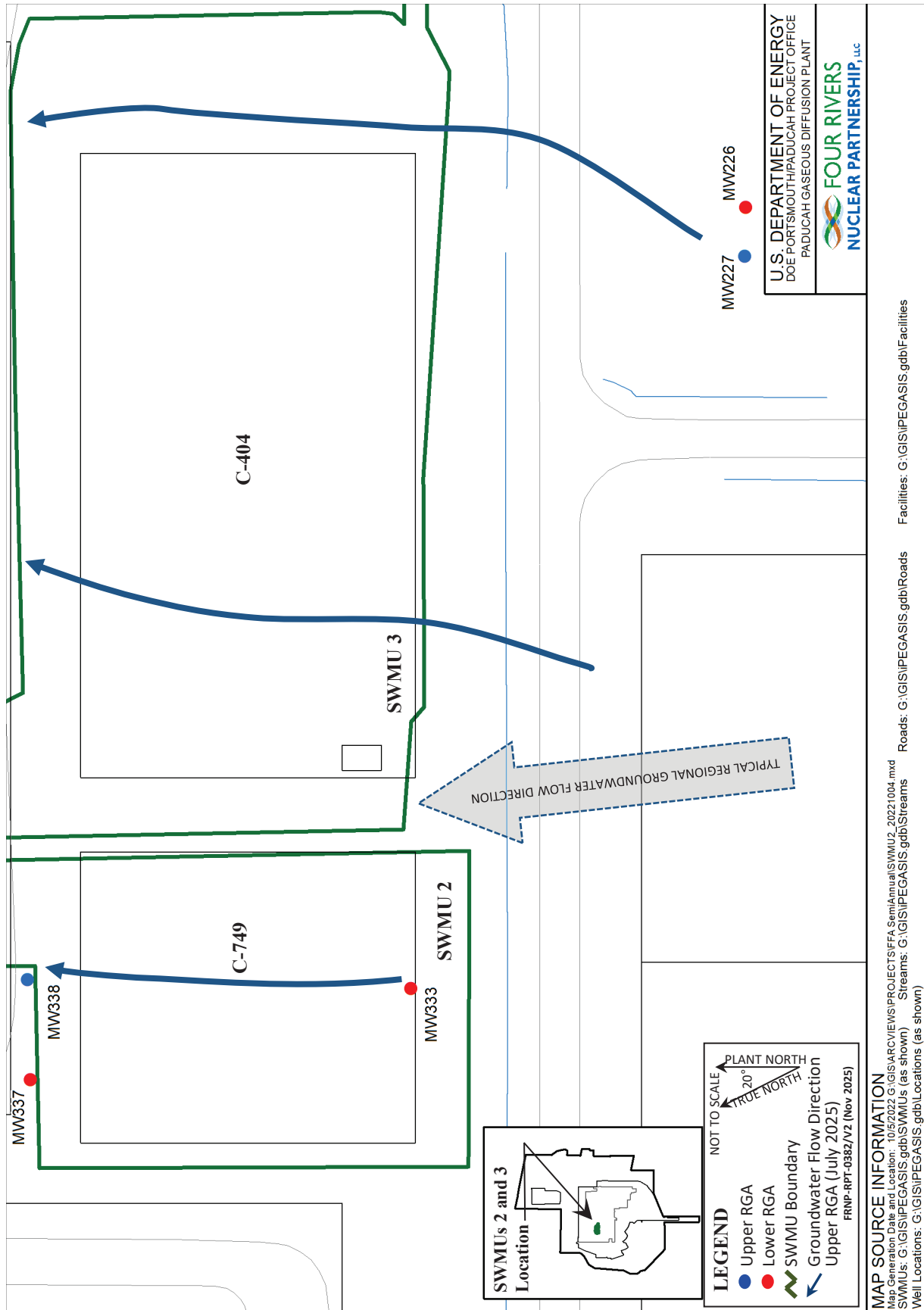


Figure E.1. SWMU 2 Wells Location

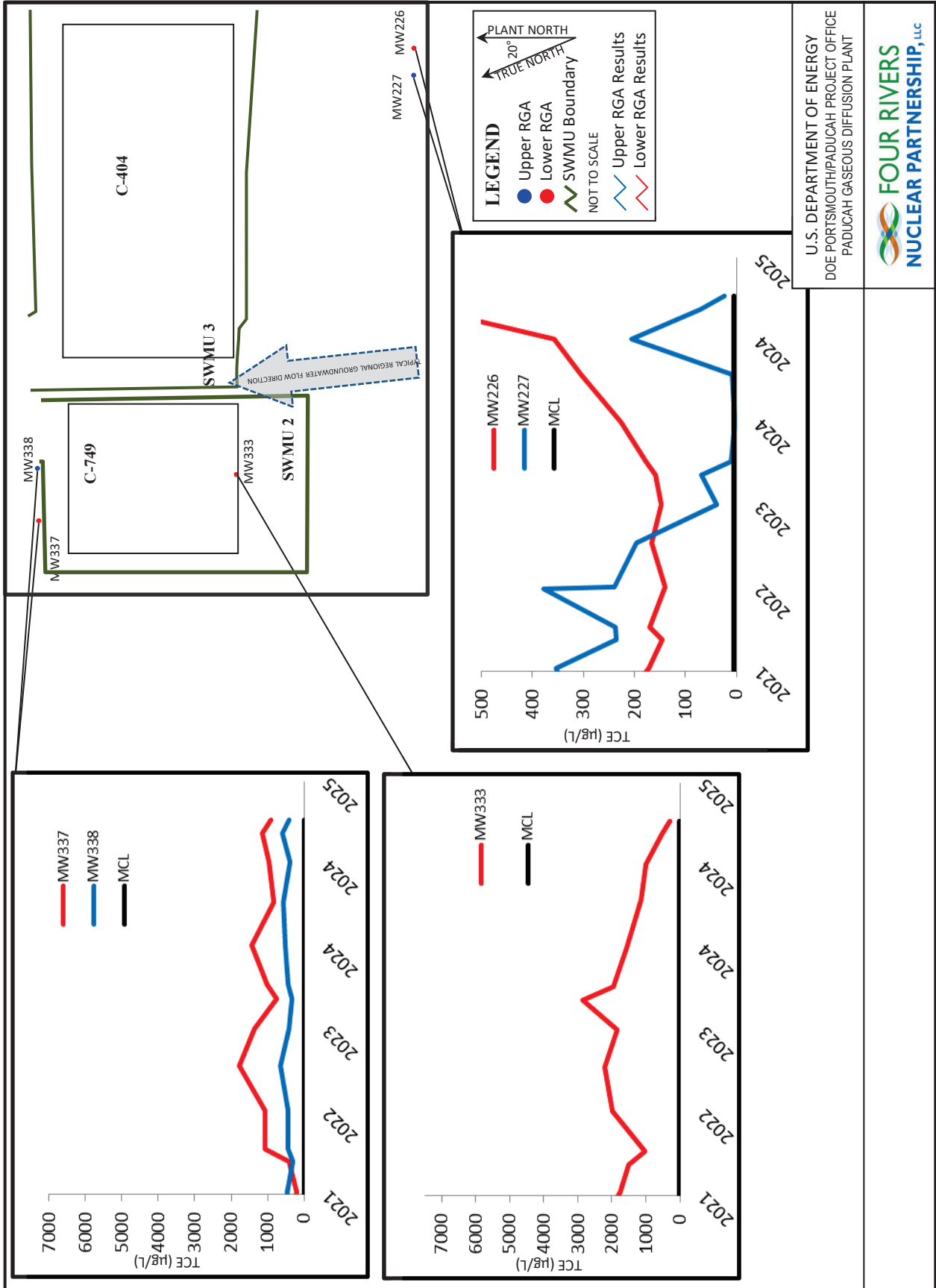


Figure E.2. TCE Trends in SWMU 2 Wells

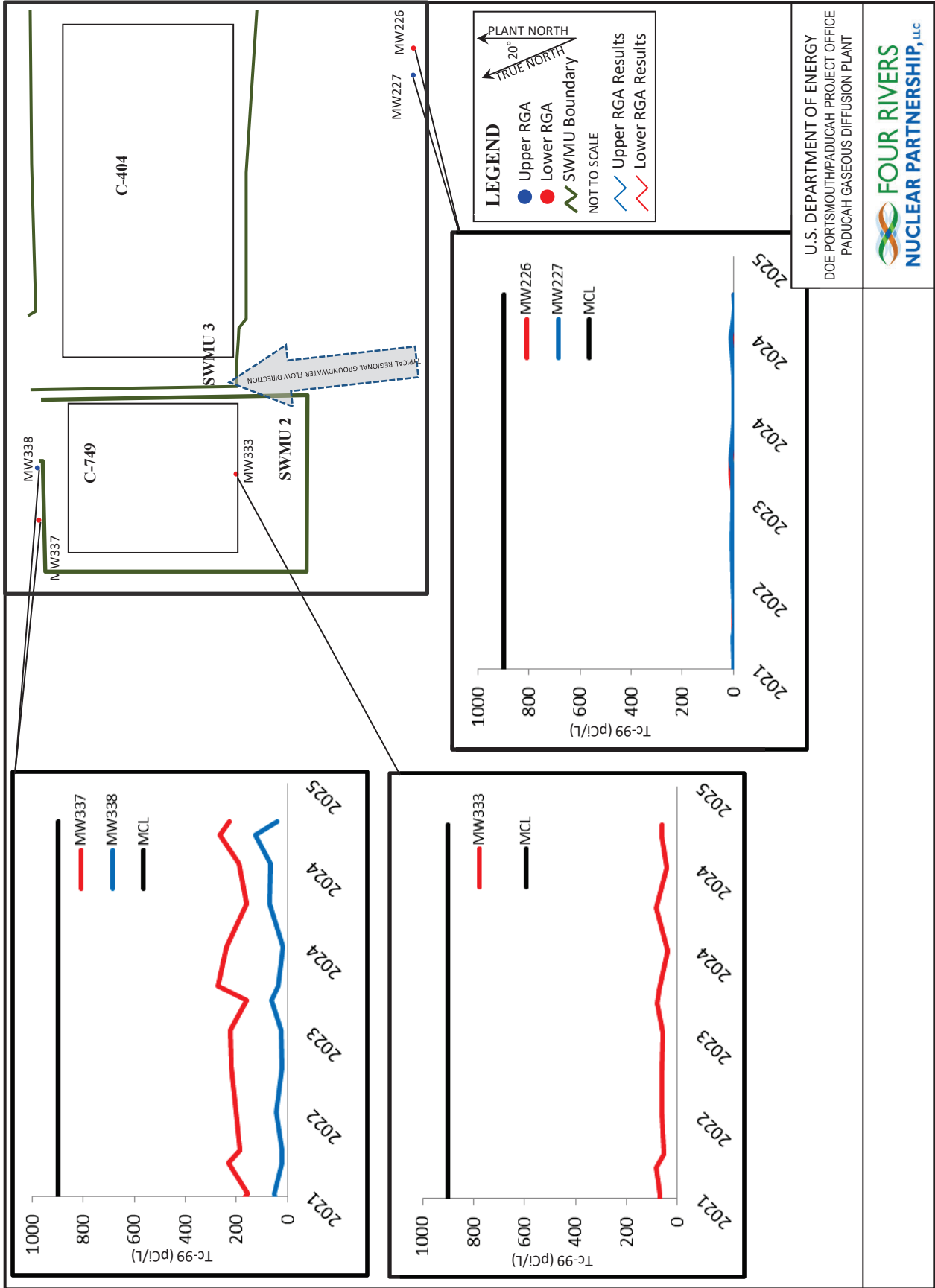


Figure E.3. Tc-99 Trends in SWMU 2 Wells

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