National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
White Sands Test Facility
P.O. Box 20
Las Cruces, NM 88004-0020

April 28, 2025

Reply to Attn of: RE-25-057

Mr. JohnDavid Nance, Bureau Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Subject: NASA WSTF Periodic Monitoring Report – First Quarter 2025

Enclosed is the NASA WSTF Periodic Monitoring Report (PMR) for the first quarter of 2025. This report provides detailed information about routine groundwater, Plume Front Treatment System (PFTS), and Mid-plume Interception and Treatment System (MPITS) monitoring performed between November 1, 2024 and January 31, 2025. Analytical data processed through the WSTF data management system, operational and performance data for both treatment systems, and site-wide potentiometric surface data are also provided for the same reporting period. Activity updates not associated with or reliant upon analytical data are reported for the previous calendar quarter.

This submittal includes an Executive Summary of the PMR that provides important events and observations as Enclosure 1, suggestions for installing and using WSTF PMR Databases as Enclosure 2, a bound paper copy of the main body of the report (pages i-78) as Enclosure 3, a DVD-ROM containing the entire report, the accompanying historical analytical databases, an Excel spreadsheet comprising groundwater data for the last four calendar quarters (January 2024 to December 2024) as Enclosure 4, and a CD-ROM containing analytical lab reports for the reporting period as Enclosure 5.

If you have any questions or comments concerning this submittal, please contact Antonette Doherty of my staff at 575-202-5406.

Timothy Davis
Digitally signed by Timothy Davis
Date: 2025.04.28 07:49:28 -06'00'

Timothy J. Davis
Chief, Environmental Office

5 Enclosures

cc:
Ms. Naomi Davidson
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Ms. Melanie Sandoval
Ground Water Quality Bureau
New Mexico Environment Department
Submittal via Box

Executive Summary

Groundwater monitoring is performed at the National Aeronautics and Space Administration (NASA) White Sands Test Facility (WSTF) to meet regulatory requirements, monitor the effectiveness of corrective actions, develop additional corrective actions, and provide environmental data for a variety of investigations. This Periodic Monitoring Report (PMR) includes the following:

- Purpose, scope, and discussion of the groundwater monitoring data contained in this report.
- Discussion of applicable cleanup levels and comparisons of those cleanup levels to current groundwater contaminant concentrations.
- Detailed information related to the operation, maintenance, and status of the Plume Front Treatment System (PFTS) and the Mid-plume Interception and Treatment System (MPITS), NASA's presumptive remedy interim measures corrective actions for groundwater.
- Information related to the development and implementation of source area investigations and, where applicable, related corrective actions.
- Evaluations of groundwater and treatment system monitoring results and chemical analytical data as it relates to the effectiveness of groundwater remediation.
- Conclusions and recommendations based upon groundwater and remediation system monitoring analytical data and the subsequent evaluations and interpretations of those data presented in this report.

Analytical data included in this report correspond to samples collected from groundwater monitoring wells, as well as PFTS and MPITS sampling locations between November 1, 2024 and January 31, 2025. The data were processed through the WSTF data management system during the first calendar quarter of 2025.

A variety of data elements including PFTS and MPITS operational and performance data, potentiometric surface maps, and plume iso-concentration maps are used to evaluate the effects of the PFTS and MPITS on the WSTF groundwater contaminant plume. An evaluation of the PFTS data elements indicates that the PFTS is currently achieving plume capture and contaminant extraction in the Plume Front area. Data elements related to MPITS operation are presented and contaminant mass removal for both systems is included in this report.

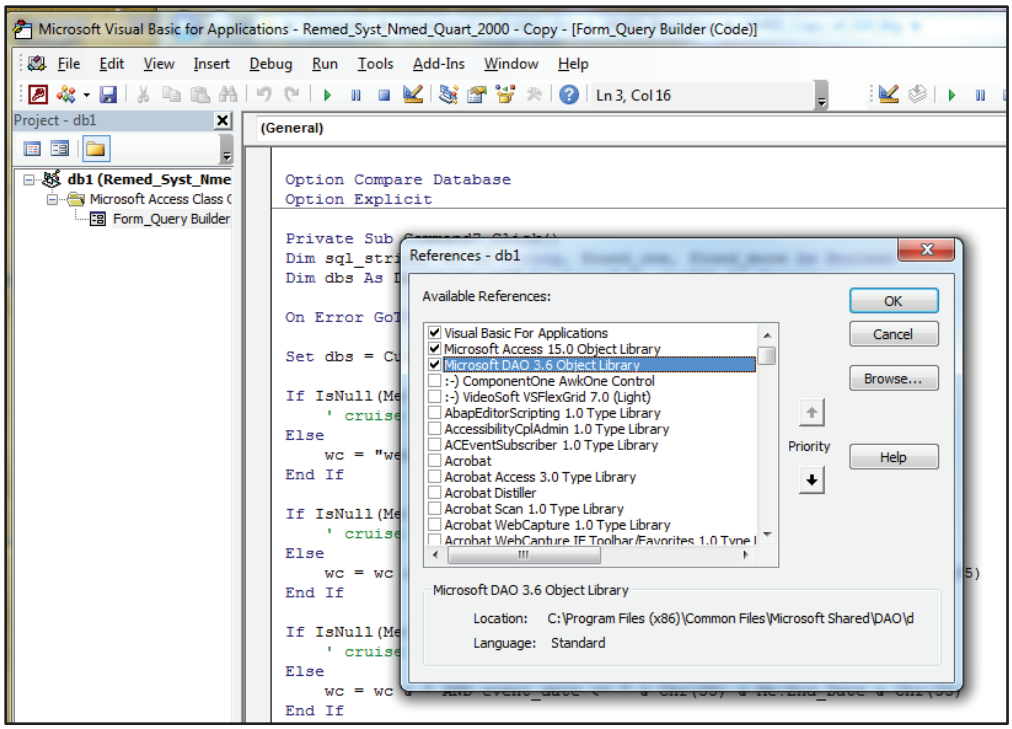
NASA's groundwater monitoring objectives are discussed in more detail in the applicable sections of this report. It is recommended that groundwater monitoring continue in accordance with the Groundwater Monitoring Plan (NASA, 2024d). NASA also recommends that groundwater corrective action operations at the PFTS and MPITS continue as scheduled. Further, NASA recommends that source area investigations continue in accordance with NMED-approved schedules.

Suggestions for Installing and Using WSTF PMR Databases

1. Ensure Microsoft Access 2013 is installed.
2. Ensure the following Microsoft libraries are installed:

    - Visual Basic for Applications
    - Microsoft Access 15.0 Object Library
    - Microsoft DAO 3.6 Object Library

    To verify the presence of these libraries, choose any table, click “Database Tools” on the menu bar, then click the “Visual Basic” button. A new window will open (see example below). Click “Tools” on the menu bar, then click “References”. Another window will open (see example below), showing the libraries available. Ensure the boxes are checked for the three required libraries.



3. Copy the database files from the DVD to your hard drive. This will improve the performance of databases.
4. After running a query, you can export the data to Excel by selecting *External Data* on the menu bar, then click the *Export to Excel* button.

National Aeronautics and Space Administration



NASA WSTF Periodic Monitoring Report for First Quarter 2025

April 2025

NM880001943

NASA WSTF Periodic Monitoring Report for First Quarter 2025

Reporting Period: November 1, 2024 through January 31, 2025

Report Deadline: April 30, 2025

NM8800019434

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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.

Timothy Davis Digitally signed by Timothy Davis Date: 2025.04.28 07:49:48 -06'00'

Timothy J. Davis
Chief, NASA Environmental Office

See Electronic Signature

Date

National Aeronautics and Space Administration

Johnson Space Center
White Sands Test Facility
12600 NASA Road
Las Cruces, NM 88012
www.nasa.gov/white-sands-test-facility/

www.nasa.gov

Executive Summary

Groundwater monitoring is performed at the National Aeronautics and Space Administration (NASA) White Sands Test Facility (WSTF) to meet regulatory requirements, monitor the effectiveness of corrective actions, develop additional corrective actions, and provide environmental data for a variety of investigations. This Periodic Monitoring Report (PMR) includes the following:

- Purpose, scope, and discussion of the groundwater monitoring data contained in this report.
- Discussion of applicable cleanup levels and comparisons of those cleanup levels to current groundwater contaminant concentrations.
- Detailed information related to the operation, maintenance, and status of the Plume Front Treatment System (PFTS) and the Mid-plume Interception and Treatment System (MPITS), NASA's presumptive remedy interim measures corrective actions for groundwater.
- Information related to the development and implementation of source area investigations and, where applicable, related corrective actions.
- Evaluations of groundwater and treatment system monitoring results and chemical analytical data as it relates to the effectiveness of groundwater remediation.
- Conclusions and recommendations based upon groundwater and remediation system monitoring analytical data and the subsequent evaluations and interpretations of those data presented in this report.

Analytical data included in this report correspond to samples collected from groundwater monitoring wells, as well as PFTS and MPITS sampling locations between November 1, 2024 and January 31, 2025. The data were processed through the WSTF data management system during the first calendar quarter of 2025.

A variety of data elements including PFTS and MPITS operational and performance data, potentiometric surface maps, and plume iso-concentration maps are used to evaluate the effects of the PFTS and MPITS on the WSTF groundwater contaminant plume. An evaluation of the PFTS data elements indicates that the PFTS is currently achieving plume capture and contaminant extraction in the Plume Front area. Data elements related to MPITS operation are presented and contaminant mass removal for both systems is included in this report.

NASA's groundwater monitoring objectives are discussed in more detail in the applicable sections of this report. It is recommended that groundwater monitoring continue in accordance with the Groundwater Monitoring Plan (NASA, 2024d). NASA also recommends that groundwater corrective action operations at the PFTS and MPITS continue as scheduled. Further, NASA recommends that source area investigations continue in accordance with NMED-approved schedules.

The use of trademarks or names of manufacturers is for accurate reporting and does not constitute an official endorsement either expressed or implied of such products or manufacturers by the National Aeronautics and Space Administration.

Table of Contents

Executive Summary ..... **iii**
Table of Contents ..... **iv**
List of Figures ..... **vi**
List of Tables ..... **vii**
List of Acronyms and Abbreviations ..... **viii**
1.0 Introduction **1**
2.0 Scope of Activities **2**
3.0 Cleanup Levels **2**
3.1 Discharge Standards for PFTS and MPITS Effluent 2
3.2 New Detections 3
4.0 Routine Groundwater Monitoring **3**
4.1 Current Status and Monitoring Performed 3
4.2 Groundwater Monitoring Results 4
4.2.1 Groundwater Elevations 4
4.2.2 Groundwater Quality Measurements (Indicator Parameters) 4
4.3 Groundwater Chemical Analytical Results 5
5.0 Treatment System Monitoring **5**
5.1 Plume Front Treatment System 5
5.1.1 PFTS Operational Status 6
5.1.2 PFTS Performance 6
5.1.3 Extraction and Injection Well Performance 6
5.1.4 PFTS Monitoring Results 7
5.1.5 PFTS Chemical Analytical Results 8
5.1.6 PFTS Mass Removal 8
5.2 Mid-plume Interception and Treatment System 8
5.2.1 MPITS Monitoring Results 8
5.2.2 MPITS Operational Status 9
5.2.3 MPITS Performance 9
5.2.4 MPITS Extraction Well and Infiltration Basin Performance 10
5.2.5 MPITS Chemical Analytical Results 10
5.2.6 MPITS Mass Removal 10
5.3 Remediation Systems Operation Costs 11
6.0 Discussion and Conclusions **11**
6.1 Summary of Groundwater Monitoring Projects 11
6.1.1 Monitoring Well Performance or Sampling Equipment Issues 11
6.1.2 Monitoring Well Installation and Well Plugging and Abandonment 12
6.1.3 Westbay Well Reconfiguration 12
6.1.4 Groundwater Monitoring Data Representativeness 12
6.2 Comparison of Analytical Data to Cleanup Levels 12
6.2.1 Groundwater Monitoring Wells 12
6.2.2 Plume Front Treatment System 12
6.2.3 Mid-plume Interception and Treatment System 12
6.3 Contaminant Plume Evaluation 12
6.3.1 Groundwater Elevations 13
6.3.2 Plume iso-concentration maps 13
6.3.3 Combined Plume Iso-concentration Maps and Potentiometric Surface Map 13
6.3.4 Time-concentration Plots and Groundwater Data Analytical Trends 13
6.4 Summary of Source Area Investigations 17
6.4.1 200 Area 17
6.4.2 300 Area 18
6.4.3 400 Area 18

6.4.4 600 Area Perched Groundwater Extraction and Investigations 18
6.4.5 SWMUs 2, 8, and 34 and Area of Concern (AOC) 51 (Wastewater Lagoons) 18
6.4.6 SWMU 10 (200 Area Hazardous Waste Transmission Lines) 19
6.4.7 SWMU 16 (600 Area Bureau of Land Management [BLM] Off-Site Pile) 19
6.4.8 SWMUs 21–27 (Septic Tanks) 19
6.4.9 SWMUs 29 (STGT Small Arms Firing Ranges) 19
6.4.10 SWMU 33 (300 Area Test Stand 302 Cooling Water Pond) 19
6.4.11 SWMU 47 (500 Fuel Storage Area) 19
6.4.12 SWMU 49 (700 Area Landfill) 19
6.4.13 SWMU 50 (First TDRS Diesel Release) 19
6.4.14 SWMU 52 (Second TDRS Underground Storage Tank) 20
6.4.15 SWMU 54 (500 Area Former Oxidizer Burner) 20
6.4.16 Dye Tracer Test Investigation 20
6.4.17 Per- and polyfluoroalkyl substances 20
7.0 Planned Activities 20
7.1 Groundwater Monitoring and Related Projects 21
7.1.2 Westbay Well Reconfiguration 21
7.1.3 Monitoring Well Installation 21
7.2 Groundwater Remediation System Monitoring 21
8.0 References 21
Figures 24
Tables 35
Appendix A Indicator Parameters and Analytical Data A-1
Appendix A.1 Monitor Well Indicator Parameters A-2
Appendix A.2 Monitor Well Analytical Data A-88
Appendix A.3 PFTS Indicator Parameters A-217
Appendix A.4 PFTS Analytical Data A-222
Appendix A.5 MPITS Indicator Parameters A-231
Appendix A.6 MPITS Analytical Data A-235
Appendix B Sampling Event Logbook Entries and Internal CoC Forms B-1
Appendix C Chemical Analytical Program (Internal QA reports) C-1
Appendix D Comparison to Cleanup Levels D-1
Appendix D.1 Groundwater Monitoring Wells D-2
Appendix D.2 PFTS D-7
Appendix D.3 MPITS D-10
Appendix E Time-Concentration Plots E-1
Appendix F Summary of Source Area Investigations F-1

List of Figures

Figure 1.1 WSTF Location Map 25
Figure 1.2 WSTF Well Location Map 26
Figure 4.1 Groundwater Elevations and Generalized Flow Directions for the Reporting Period 27
Figure 4.2 Site-wide N-Nitrosodimethylamine (NDMA) Concentrations for the Reporting Period 28
Figure 4.3 Site-Wide Trichloroethene (TCE) Concentrations for the Reporting Period 29
Figure 6.1 Plume Front Groundwater Elevations for the Reporting Period 30
Figure 6.2 Mid-plume Groundwater Elevations for the Reporting Period 31
Figure 6.3 NDMA Concentrations at the Plume Front for the Reporting Period 32
Figure 6.4 TCE Concentrations at the Plume Front for the Reporting Period 33
Figure 6.5 TCE Concentrations at the Plume Front for the Reporting Period 34

List of Tables

Table 3.1 DP-1255 Discharge Standards and Groundwater Cleanup Levels for WSTF COCs 36
Table 3.2 Accepted New Detections for This Reporting Period 37
Table 3.3 Unconfirmed New Detections – Resolution Pending 38
Table 3.4 Unconfirmed Detections Resolved This Reporting Period 42
Table 4.1 Groundwater Monitoring Wells/Zones Analyzed for the Reporting Period 43
Table 4.2 Groundwater Elevation Data 45
Table 5.1 PFTS and MPITS Operational Status for the Reporting Period 49
Table 5.2 PFTS and MPITS System Shutdowns for the Reporting Period 50
Table 5.3 PFTS Air Stripper and UV Reactor Performance for the Reporting Period 52
Table 5.4 PFTS Extraction and Injection Well Flow Rates for the Reporting Period 53
Table 5.5 Comparison of Specific Capacities for the Plume Front Wells 54
Table 5.6 Plume Front Mass Removal[1] 55
Table 5.7 MPITS Air Stripper and UV Reactor Performance for the Reporting Period 56
Table 5.8 Mid-plume Mass Removal[1] 57
Table 5.9 Groundwater Treatment System Operation Costs ($ / 1,000 gals) 58
Table 6.1 Status of Wells with Sampling Issues 59

List of Acronyms and Abbreviations

µg/L	Micrograms per liter
AOC	Area of concern
bgs	Below ground surface
BLM	Bureau of Land Management
COC	Contaminant of concern
CoC	Chain-of-Custody
DP	Discharge Permit
DTW	Depth to water
EPA	Environmental Protection Agency
FLUTe	Flexible Liner Underground Technologies, LLC
Freon 11	Trichlorofluoromethane
ft	Foot/feet
g	Gram
GMP	Groundwater Monitoring Plan
gpm	Gallons per minute
gpm/ft	Gallons per minute per foot
HWMU	Hazardous Waste Management Unit
IDW	Investigation-Derived Waste
JER	Jornada Experimental Range
kg	Kilogram
L	Liter
MDL	Method detection limit
mg/L	Milligrams per liter
MPCA	Mid-plume Constriction Area
MPE	Mid-plume Extraction
MPITS	Mid-plume Interception and Treatment System
NASA	National Aeronautics and Space Administration
ND	Not detected
NDMA	N-nitrosodimethylamine
ng/L	Nanograms per liter
NMED	New Mexico Environment Department
PA	Preliminary Assessment
PCE	Tetrachloroethene
PFAS	Per- and polyfluoroalkyl substances
PFE	Plume Front Extraction
PFI	Plume Front Injection
PFTS	Plume Front Treatment System
PMR	Periodic Monitoring Report
QA	Quality Assurance
RCRA	Resource Conservation and Recovery Act
RSMP	Remediation System Monitoring Plan
scfm	Standard cubic feet per minute
STGT	Second TDRS Ground Terminal
SWMU	Solid Waste Management Unit
T-C	Time-concentration
TCE	Trichloroethene
TDRS	Tracking and Data Relay Satellite
TDRSS	Tracking and Data Relay Satellite System
UV	Ultraviolet

VOC	Volatile Organic Compound
WBFZ	Western Boundary Fault Zone
WSTF	NASA Johnson Space Center White Sands Test Facility

1.0 Introduction

National Aeronautics and Space Administration (NASA) White Sands Test Facility (WSTF) is located at 12600 NASA Road near Las Cruces, New Mexico. WSTF (U.S. Environmental Protection Agency [EPA] and New Mexico Environment Department [NMED] Facility Identification Number NM8800019434) currently operates as a field test facility under the NASA Lyndon B. Johnson Space Center in Houston, Texas. Figure 1.1 is a map showing the location of WSTF in southern Doña Ana County.

The facility provides testing services to NASA for United States space programs and support for the Department of Defense, Department of Energy, private industry, and foreign government agencies. The primary WSTF mission is to develop, qualify, and test the limits of spacecraft propulsion systems and subsystems. The installation also operates several laboratory facilities that conduct simulated use tests for space station materials, as well as compatibility testing.

WSTF historical operations resulted in a groundwater contaminant plume that requires extensive investigation activities and associated corrective actions. NASA developed and implemented a strategy for remediating contaminated WSTF groundwater in 1996, based on an analysis of potential risk to human health and the environmental and hydrogeological characteristics of the site. This strategy involves a sequential three-phase approach to: 1) stabilize the leading edge of the plume in the alluvial aquifer at the Plume Front area through operation of the Plume Front Treatment System (PFTS); 2) intercept a high-concentration portion of the plume within fractured bedrock in the Mid-plume area through operation of the Mid-plume Interception and Treatment System (MPITS); and 3) investigate contaminant source areas and remediate, as appropriate, any remaining sources of contamination identified during ongoing investigations.

There are currently 216 active groundwater monitoring locations (treatment system sample ports, extraction wells, conventional wells, and multiport well zones) in use at WSTF. Figure 1.2 provides a map of the facility and shows the locations of groundwater monitoring wells and components of the PFTS and the MPITS. Routine groundwater monitoring is performed in accordance with the NMED Resource Conservation and Recovery Act (RCRA) Permit (Permit; NMED, 2023a, p25), the Groundwater Monitoring Plan (GMP; NASA, 2024d), and the Remediation System Monitoring Plan (RSMP; NASA, 2024f).

This report provides details of groundwater (routine and related to corrective actions), PFTS, and MPITS samples processed through the WSTF data management system during the first quarter of 2025. Between November 1, 2024 and January 31, 2025, groundwater samples were collected at 73 groundwater monitoring wells or zones (127 sample events), eight PFTS sampling locations (12 sample events), and six MPITS sampling locations (10 sample events). Specific monitoring activities for routine groundwater sampling are discussed in Section 4.0. The individual sampling activity at each monitoring well, well zone, or other sampling point is identified as a discrete sampling event (by location and sampling date). This report includes and discusses these sampling events.

The PFTS was operational on 83 of 92 days during the reporting period at an average flow rate of 736 gallons per minute (gpm) while running. Approximately 267 acre-feet (ft) of groundwater were treated at the PFTS during this timeframe. Specific information related to operation, maintenance, and monitoring of the PFTS is included in Section 5.1 of this report. The MPITS was operational on 52 of 92 days during the reporting period, treating approximately 1.49 acre-ft of groundwater including investigation-derived waste (IDW). Specific information on MPITS operation, maintenance, monitoring, and related activities is provided in Section 5.2.

2.0 Scope of Activities

Groundwater and remediation systems sampling event analytical results and remediation system operational data are provided for the reporting period. Updates for activities that are not associated with or reliant upon groundwater analytical data are provided for the calendar quarter.

NASA routinely collects groundwater and treatment system samples for the analysis of volatile organic compounds (VOC), N-nitrosodimethylamine (NDMA), and several inorganic compounds. On a less frequent basis, semi-volatile organic compounds are sampled, and in certain wells, samples for the analysis of 1,4-dioxane, total petroleum hydrocarbons, and 40 CFR Part 264 Appendix IX compounds are collected. The GMP (NASA, 2024d, pp 40-42) identifies the specific samples that are to be collected at each groundwater monitoring well. The RSMP (NASA, 2024f) provides sampling requirements for the PFTS and the MPITS.

Groundwater quality data, collectively referred to as indicator parameters, are measured during each sampling event. Indicator parameters may include temperature, pH, conductivity, turbidity, and (at wells sampled using low-flow procedures) oxidation-reduction potential and dissolved oxygen. Depth to groundwater (DTW) is also measured at each conventional monitoring well during the sampling event. Indicator parameters associated with sampling events during the reporting period are included in Appendix A as follows: groundwater monitoring wells (Section 4.2.2) – Appendix A.1; PFTS (Section 5.1.4.2) – Appendix A.3; and MPITS (Section 5.2.1.2) – Appendix A.5.

Chemical analytical data (detections only) for sampling events during the reporting period are discussed in the following sections: groundwater monitoring wells (Section 4.3) – Appendix A.2; PFTS (Section 5.1.5) – Appendix A.4; and MPITS (Section 5.2.5) – Appendix A.6.

Field data and the recording of other specific sampling-related details for each sampling event are discussed in Sections 4.0, 5.1, and 5.2 of this report. Logbook entries and internal chain-of-custody (CoC) forms from sampling events included in the report are provided in Appendix B. The external CoC forms associated with the sampling events can be found in the Lab Reports included on the enclosed DVD. Appendix C provides internal monthly WSTF Quality Assurance (QA) Reports for the reporting period. Appendix D includes the comparison of analytical results from the groundwater monitoring wells (Appendix D.1), PFTS (Appendix D.2), and MPITS (Appendix D.3) with cleanup levels. Only results that exceed cleanup levels are included in these appendices.

During groundwater sampling, IDW such as decontamination water and purged groundwater is produced. This IDW is treated by the MPITS as specified in the GMP (NASA, 2024d, p39).

3.0 Cleanup Levels

Cleanup levels for all hazardous constituents detected in WSTF groundwater are summarized in the GMP update (NASA, 2024d, pp 11-13) for 2024, submitted to NMED on April 29, 2024, and approved with modifications by NMED on December 30, 2024 (NMED, 2024d). That document outlines the process for developing cleanup levels as specified in Section 3.5 of the Permit (NMED, 2023a, p28).

3.1 Discharge Standards for PFTS and MPITS Effluent

The Ground Water Discharge Permit Renewal and Modification, Discharge Permit (DP)-1255 (NMED, 2023b, p 7) specifies that remediated groundwater discharged from the two remediation systems shall not exceed the concentrations listed, which are generally consistent with NASA WSTF RCRA Permit NM

8800019434 for NDMA, trichloroethene (TCE), tetrachloroethene (PCE), and chloroform. Table 3.1 includes the current DP-1255 discharge standards for the four constituents.

3.2 New Detections

The GMP requires that NASA report new detections of hazardous constituents in groundwater monitoring wells (NASA, 2024d, pp 13-14). Each quarter, NASA may add new constituents to the list of analytes detected at certain WSTF groundwater wells. As a result, a number of new detections have been reported in sampling results at those wells. Most of the new detections are consistent with regional groundwater chemistry and require no action beyond continued monitoring and reporting. New detections, including non-hazardous constituents, reported in sampling events during the reporting period are provided in Table 3.2.

The GMP also requires detection monitoring at specific compliance points downgradient of the closures and operational areas of the facility. The wells specified are BLM-3-182 (for the 100 and 600 Areas), 200-B-240 and 200-SG-1 (for the 200 Area), 300-A-120 (for the 300 Area), and 400-C-143 (for the 400 Area). Detection monitoring was performed at wells 400-C-143 during the reporting period.

In addition to the inorganic constituents that are characteristic of regional groundwater, NASA observed several new detections that require further evaluation. The hazardous constituents in Table 3.3 have not been previously detected at the wells listed in the table. As specified in Section 3.3 of the GMP, NASA has scheduled resampling of these wells to confirm these detections (NASA, 2024d, pp 13-14). There was an unconfirmed detection of NDMA in Westbay zone 200-I-795 by Modified EPA Method 607 during the reporting period. The zone is scheduled for resampling. Multiple PFAS detections were added to Table 3.3 last quarter due to the initiation of annual PFAS sampling in accordance with Section 11.2 of the GMP. Table 3.4 lists the resampling date and the resolution of some of the unconfirmed detections reported in previous periodic monitoring reports (PMRs). The wells were resampled as required and the new detections were resolved as indicated in the table.

4.0 Routine Groundwater Monitoring

A variety of groundwater monitoring data are collected from monitoring wells and the groundwater treatment systems during routine WSTF operations. These data consist of measured groundwater elevations, calculated groundwater piezometric elevations, the graphical representations of groundwater elevation generated from these data, and groundwater indicator parameters (field water quality measurements).

Data presented in this section, including groundwater elevations and indicator parameters, were collected from various groundwater monitoring locations during the reporting period. Groundwater chemical analytical data also from this timeframe, while not considered monitoring data in some contexts, are also presented in this section.

4.1 Current Status and Monitoring Performed

NASA continues to monitor groundwater to maintain a complete understanding of plume characteristics, contaminant migration, and the overall impact of ongoing corrective action efforts. This section discusses the results of routine groundwater samples collected from groundwater monitoring wells or zones during the reporting period and processed using the WSTF data management system during the first quarter of 2025. Table 4.1 provides a list of the monitoring wells and PFTS and MPITS sampling locations, and their associated sampling events for which analytical data are presented in this report.

4.2 Groundwater Monitoring Results

This section provides the results of groundwater monitoring, including groundwater elevations and groundwater quality measurements.

4.2.1 Groundwater Elevations

Groundwater elevations at WSTF's conventional monitoring wells, piezometers, and exploration wells are determined by manually measuring the water level. Piezometric elevations at Westbay®[1] multiport wells are calculated based on the groundwater formation pressures measured at target monitoring zones. Piezometric elevations for Flexible Liner Underground Technologies, LLC (FLUTe™) multiport monitoring wells are calculated from dedicated pressure transducer measurements at specified monitoring zones. DTW or formation pressures are measured quarterly and during each sampling event.

Formation pressures at multiport wells in the Plume Front and Mid-plume areas are typically measured during the same week as quarterly DTW measurements at conventional wells. Groundwater elevations from Westbay zones are calculated from pressure data typically collected at the uppermost sampling ports (proximal to the water table) using Westbay pressure measurement equipment. Potentiometric data from multiport wells in other areas of the site are also available. Groundwater elevations are subject to quality review prior to their use in data presentations. Anomalous or erroneous values are flagged as unusable and excluded from the dataset used to generate graphical presentations of groundwater elevation.

The potentiometric surface depicted in Figure 4.1 was developed by hand-contouring the most recent water level dataset that corresponds to the analytical reporting period. These data were collected on January 30, January 31, and February 4, 2025 and are provided in Table 4.2. In Figure 4.1, groundwater elevation contours depict a general westward groundwater flow across the facility. Subtle variations in groundwater elevation may occur within discrete transmissive flow paths at varying depths below ground surface (bgs) in the fractured bedrock aquifer located east of the Western Boundary Fault Zone (WBFZ). Due to the scale, these local elevation variations may not be reflected in the figure. The prominent transition in the hydraulic gradient from the WSTF pediment area east of the WBFZ (0.05 ft/ft) to the relatively flat southern Jornada del Muerto Basin of the WSTF Plume Front area (0.0002 ft/ft) is also evident in the figure. No contours are depicted in the Plume Front area because the range of observed water elevations in that area is less than the contour interval (40 ft). Further discussion of Plume Front and Mid-plume groundwater elevations is provided in Section 6.3.1 of this report.

4.2.2 Groundwater Quality Measurements (Indicator Parameters)

Groundwater indicator parameters are obtained from field quality measurements performed during each sampling event. The groundwater indicator parameters associated with the groundwater monitoring well sampling events included in this report (see Table 4.1) are provided in Appendix A.1.

Indicator parameters and other specific sampling-related details associated with each monitoring well sampling event are recorded by technicians in the field sampling record. Appendix B provides the field sampling records and field/internal CoC forms for each sampling event performed during the reporting period. The WSTF external CoC forms for groundwater samples collected during these sampling events are provided in the Lab Reports on the enclosed DVD provided in Enclosure 3.

[1] Westbay is a registered trademark of Nova Metrix Ground Monitoring (Canada) Ltd.

4.3 Groundwater Chemical Analytical Results

Table 4.1 lists groundwater monitoring wells sampled during the reporting period. Groundwater chemical analytical data from these wells were processed through the WSTF data management system during the first calendar quarter of 2025 and detections are included in Appendix A.2.

NASA has also included a copy of the historical analytical database with this report. The database is provided to facilitate NMED's review of groundwater analytical data provided in this report and to allow for the historical comparisons required by the Permit (NMED, 2023a, p65). NASA's historical database is an operational tool developed, maintained, and used by NASA environmental staff to manage and archive environmental data. It is not intended to serve specifically as a regulatory reporting mechanism. NASA reserves the right to implement changes to the database that are deemed appropriate to meet the WSTF internal environmental data management requirements. Any changes will not affect the integrity of historical analytical data. The amount of historical data has exceeded the capacity of a Microsoft Access®[2] database, and as a result, all the historical data cannot be contained in the database included with this report for use by NMED. Historical data prior to 2000 was removed from the reporting database to facilitate database operation and ease of use by NMED. Pre-2000 historical data of significance in decision-making is appropriately reflected in the time-concentration (T-C) plots presented in Appendix E.

A summary of internal QA methods applied to groundwater chemical analytical data is provided in Appendix C. The QA reports included in Appendix C apply to analytical results from sampling events performed during the reporting period. As requested by NMED (NMED, 2013), all laboratory analytical reports corresponding to the analytical data presented in this report are also provided electronically (.pdf format) with this submittal.

The most recent chemical analytical data, including data processed in the first quarter of 2025, were used to develop manually contoured plume iso-concentration maps for NDMA (Figure 4.2) and TCE (Figure 4.3). The lowest iso-concentration contour on each map corresponds to the required cleanup level for that analyte.

5.0 Treatment System Monitoring

This section provides information related to NASA's environmental remediation systems at WSTF. It provides the current operational status of the treatment systems and includes a discussion of the capabilities and performance of the treatment systems, pertinent monitoring data from the systems, and applicable chemical analytical data associated with remediation system monitoring.

5.1 Plume Front Treatment System

The PFTS is a pump and treat groundwater remediation system that utilizes air stripping and ultraviolet (UV) photolysis to remove VOC and nitrosamines from contaminated groundwater. The system is an interim measures presumptive remedy located at the leading edge of the WSTF contaminant plume. It was implemented during the first phase of NASA's remediation strategy to stabilize plume migration. This section provides information related to PFTS operation, performance, and monitoring during the reporting period. Chemical analytical data from PFTS sampling events completed during the reporting period are also provided.

[2] Microsoft Access is a registered trademark of the Microsoft Corporation.

5.1.1 PFTS Operational Status

The operational status of the PFTS is summarized in Table 5.1 and Table 5.2.

5.1.2 PFTS Performance

This section summarizes the performance of the air strippers and UV reactor for the reporting period. Additional operational status and other details may also be presented or discussed. A variety of parameters are monitored regularly to ensure that the PFTS is properly functioning and is adequately treating the WSTF contaminants of concern (COC).

NASA shut down the PFTS for planned acceptance testing of electrical power supply equipment between March 15 and 17, 2025, and for planned maintenance and adjustments to an air stripper blower on March 20 and 28, 2025. Operational records indicate that the PFTS was intermittently offline for brief periods during January and March 2025 as the result of condensate forming in dual wall piping that triggered leak detection alarms and control system communication losses. System availability statistics, which exclude scheduled shutdowns for planned maintenance, indicate the system was operational for 76% of January, 100% of February, and 95% of March 2025. Average operating flow rates for the PFTS were 790 gpm for January, 805 gpm for February, and 800 gpm for March 2025.

5.1.2.1 Air Stripper Capabilities and Performance

The PFTS consists, in part, of two multi-sieve tray air strippers that operate in a parallel configuration to treat the WSTF VOC of concern. A single air stripper can be used when the system is operating at 650 gpm or less. Both air strippers are used when the system flow rate is greater than 650 gpm. The air strippers must maintain an air flow rate between 3,600 standard cubic feet per minute (scfm) and 4,680 scfm to ensure treatment of VOC. Table 5.3 provides the VOC performance data for the air strippers during the reporting period. Chemical analytical data provided in this report demonstrate that DP-1255 discharge limits and Permit-required cleanup levels were achieved throughout the reporting period.

5.1.2.2 UV Reactor Capabilities and Performance

The PFTS includes a 12-lamp Rayox UV reactor that uses UV photolysis to break down nitrosamines (specifically NDMA) in groundwater. The UV reactor is designed to operate at a minimum hydraulic flow rate of 200 gpm and a maximum flow rate of 3,000 gpm. Table 5.3 provides the NDMA treatment performance data for the UV reactor during the reporting period. As indicated by these data, system design parameters and cleanup levels for NDMA were achieved during the reporting period.

5.1.3 Extraction and Injection Well Performance

Extraction and injection well performance for the reporting period, as based on volumetric flow rates, extraction well drawdown, and water levels and injection well specific capacities, is summarized below. Average Plume Front injection (PFI) well flow rates and average Plume Front extraction (PFE) well flow rates for the reporting period are provided in Table 5.4.

5.1.3.1 Extraction and Injection Well Flow Rates and Specific Capacities

Flow rates for extraction and injection wells were measured and monitored throughout the reporting period. While in operation during the reporting period, flow rates for wells PFE-1, PFE-2, PFE-3, PFE-4A, and PFE-7 were stable and within expected values. The operational flow rate for PFE-5, which is

screened in fractured bedrock, was 58% of its 5.5 gpm design flow rate; and consistent with operational flow rates for this well during previous reporting periods.

Wells PFI-3 and PFI-4 operated near their respective design injection flow rates during the reporting period. NASA operated PFI-2 slightly above its design flow rate during the reporting period to maintain hydraulic mounding in the vicinity of well PFI-1. Well PFI-1 was shut down in December 2019 to investigate a suspected casing breach. Attempts to remove the downhole equipment from the well were unsuccessful, resulting in the determination that the well cannot be placed back into service. NASA initiated a project to abandon PFI-1 in the first quarter of 2025 in accordance with applicable regulations and will continue to evaluate plume capture to determine if additional groundwater control measures are needed.

Specific capacities for the PFE and PFI wells are provided in Table 5.5 and are expressed in gallons per minute per foot (gpm/ft). Generally, PFE well specific capacities are higher than PFI well specific capacities. This is due to the differences between extraction and injection well hydraulics.

5.1.3.2 Injection Well Water Level Variations, Well Monitoring, and Maintenance

Water levels at operational PFI wells are monitored on a continual basis using dedicated pressure transducers that record the levels at 1-second intervals. Specific well capacities are recorded on a continual basis by the system industrial controls software while the system is in operation and reviewed by system engineers if increases in injection well water levels indicate a potential loss of well efficiency. Periodic backflushing of the injection wells is performed when the wells exhibit rising water levels associated with decreased well capacities and during start-ups and shutdowns. Operations personnel have been using static water table levels as a guide for setting the injection flow rates to each well to maintain a stable injection operation.

5.1.4 PFTS Monitoring Results

System monitoring involves the evaluation of a variety of data collected during routine PFTS sampling-related operations. Groundwater monitoring data consist of measured groundwater elevations, calculated groundwater piezometric elevations, graphical representations of groundwater elevation generated from the data (Section 6.3.3), and groundwater indicator parameters (water quality field measurements). The data presented in this section were collected from PFTS monitoring locations during the reporting period. Groundwater chemical analytical data from PFTS sampling events, while not considered monitoring data in some contexts, are also presented in this section.

5.1.4.1 PFTS Monitoring Events

This section and associated appendices discuss the results of routine PFTS samples processed through the WSTF data management system during the reporting period. Groundwater samples processed and included in this report were collected at two PFTS monitoring locations during the reporting period. Table 4.1 provides a list of the PFTS monitoring locations and sampling event dates for which analytical data are presented in this report.

5.1.4.2 PFTS Groundwater Quality Measurements (Indicator Parameters)

Groundwater indicator parameters and other specific sampling-related details associated with each sampling event are recorded by field technicians in the field sampling record. The groundwater indicator parameters measured at each PFTS sampling event in Table 4.1 are provided in Appendix A.3.

Appendix B provides the field sampling records and internal CoC forms and the lab reports include laboratory CoC forms for each of the PFTS sampling events discussed in this section.

5.1.5 PFTS Chemical Analytical Results

This section and associated appendices provide the groundwater chemical analytical data processed through the WSTF data management system during the first calendar quarter of 2025. Appendix A.4 provides the analytical results (detections only) from PFTS sampling events performed during the reporting period. A summary of internal QA methods applied to groundwater chemical analytical data is provided in Appendix C.

5.1.6 PFTS Mass Removal

Table 5.6 uses available analytical data to calculate the mass of the various WSTF COCs removed by the PFTS between February 1, 2024 and January 31, 2025. During this 12-month period, the PFTS removed approximately 23.7 kilograms (kg) of TCE, 17.9 kg of Freon®[3] 11, 656 grams (g) of PCE, and 210.9 g of NDMA.

The contaminant mass removal was calculated as follows:

$$\textit{Mass Removal} = \textit{Total Volume Treated} \times (\textit{Influent Concentration} - \textit{Effluent Concentration})$$

5.2 Mid-plume Interception and Treatment System

The MPITS is the major component of the second phase of NASA's overall groundwater plume remediation strategy. This interim measure presumptive remedy was designed to intercept high COC concentrations within the fractured bedrock aquifer of the Mid-plume Constriction Area (MPCA).

The operational status of the MPITS is summarized below. Component/system failures, repair, and scheduled maintenance activities accounted for the majority of the short duration shutdowns during the reporting period.

5.2.1 MPITS Monitoring Results

System monitoring involves the collection and evaluation of a variety of data during routine MPITS sampling-related operations. Groundwater monitoring data consist of measured groundwater elevations, calculated groundwater piezometric elevations, graphical representations of groundwater elevation generated from these data (refer to Section 6.3.3), and groundwater indicator parameters (water quality field measurements).

The data presented in this section were collected from six MPITS monitoring locations during the reporting period. Groundwater chemical analytical data from MPITS sampling events, while not considered monitoring data in some contexts, are also presented in this section.

[3] Freon is a registered trademark of The Chemours Company FC, LLC.

5.2.1.1 MPITS Monitoring Events

This section and associated appendices discuss the results of routine MPITS samples collected during the reporting period and processed by the WSTF data management system during the reporting period. Table 4.1 includes the MPITS monitoring locations and sampling event dates for which analytical data are presented in this report.

5.2.1.2 MPITS Groundwater Quality Measurements (Indicator Parameters)

Groundwater indicator parameters and other specific sampling-related details associated with each sampling event are recorded by the field technicians in the field sampling record. The groundwater indicator parameters measured at each MPITS sampling event listed in Table 4.1 are provided in Appendix A.5. Appendix B provides the field sampling records and internal CoC for each of the MPITS sampling events discussed in this section. The laboratory CoC for each of the MPITS sampling events discussed in this section are provided in the lab reports enclosed on the DVD.

5.2.2 MPITS Operational Status

The operational status of the MPITS is included in Table 5.1 and Table 5.2.

Operational records indicate that the MPITS performed favorably during the reporting period and experienced minimal unplanned interruptions. System availability statistics, which exclude scheduled shutdowns for planned maintenance, indicate the MPITS was operational for 100% of January, 100% of February, and 99% of March 2025. Average operating flow rates for the MPITS were 8.5 gpm for January, 8.4 gpm for February, and 8.5 gpm for March 2025.

5.2.3 MPITS Performance

This section summarizes the MPITS air stripper and UV reactor performance during the reporting period. Operational status and other details may also be presented or discussed. A variety of parameters are monitored regularly to ensure that the MPITS is functioning properly and effectively treating the WSTF groundwater for COC reduction.

5.2.3.1 Air Stripper Capabilities and Performance

The MPITS consists of a single sieve tray air stripper designed to treat WSTF groundwater VOCs of concern at flow rates up to 125 gpm. Table 5.7 provides the VOC performance data for the air stripper based on MPITS analytical data for the reporting period. As indicated by these data, system design parameters and discharge limits for the VOCs were achieved during the reporting period. The MPITS influent is composed of groundwater from operational Mid-plume extraction (MPE) wells and IDW generated during groundwater sampling, well maintenance, well evaluation activities, and other groundwater-related operations at WSTF. Effluent sample results are closely monitored to ensure the air stripper continues to function properly.

5.2.3.2 UV Reactor Capabilities and Performance

The MPITS uses a 72-lamp UV photolysis reactor to break down nitrosamines in groundwater. The UV reactor is designed to operate at flow rates between 20 and 125 gpm. The reactor is capable of automatically adjusting power to the lamps to meet a target of 4.1 orders of magnitude reduction in contaminant concentrations. However, electrical power to the lamps is currently set manually at 100 percent to comply with current internal NASA operational requirements. The UV reactor achieved

approximately four orders of magnitude reduction during the reporting period. Table 5.7 shows the UV reactor's performance for the reporting period. As indicated by these data, system design parameters and discharge limits for NDMA were achieved between November 2024 and January 2025. Effluent sample results are closely monitored to ensure the UV reactor continues to function properly. NASA continues to monitor effluent results following the anomalous NDMA result reported in September 2024 and will report any observable trends in the NDMA concentration in subsequent PMRs.

5.2.4 MPITS Extraction Well and Infiltration Basin Performance

Wells MPE-1, MPE-9, MPE-10, and MPE-11 operated at various flow rates during the reporting period. There were no MPITS infiltration basin performance anomalies during the reporting period.

Well MPE-8 started producing excessive sediment and fine iron oxide particles in a previous reporting period and as a result, NASA took the well offline on October 25, 2022. A camera log of well MPE-8 performed on October 26, 2022 showed that the carbon steel casing and well screen is encrusted with iron tubercles and would require rehabilitation before the well could potentially be reactivated. As a means of supplementing contaminant mass removal, NASA is planning to activate exploration wells MPE-3 and MPE-4 as indicated in the *Remediation System Monitoring Plan Annual Update for 2024* (NASA, 2024f). NASA performed work during the first quarter of 2025 to install solar panel supports and procure pumps and motors needed for wells MPE-3 and MPE-4. NASA expects to activate these wells during the second quarter of 2025.

5.2.4.1 Extraction Well Flow Rates and Production Capacities

The MPE wells are completed in a fractured bedrock aquifer. Reduced well production capacity in this area resulted in cyclic operation of the extraction wells throughout the reporting period. Extraction well performance is characterized by evaluating well pumping rates and drawdown of water levels during pumping at each extraction well. Except for wells MPE-8 as noted above, no extraction well performance anomalies with respect to pumping rates and water level drawdowns were observed during the reporting period.

5.2.4.2 Infiltration Basin Performance, Monitoring, and Maintenance

The MPITS infiltration basin was designed to accept up to 200 gpm. No operational or performance issues were identified during the reporting period.

5.2.5 MPITS Chemical Analytical Results

Appendix A.6 provides the MPITS chemical analytical data for the analytical reporting period (detections only). A summary of internal QA methods applied to groundwater chemical analytical data is provided in Appendix C.

5.2.6 MPITS Mass Removal

Table 5.8 summarizes the mass of the various WSTF COC removed by the MPITS between February 1, 2024 and January 31, 2025. Approximately 0.91 kg of COC mass was removed by the MPITS during this 12-month period. In addition to groundwater extracted in the MPCA, the MPITS accepts and treats IDW generated during other groundwater investigations. The contaminant mass removal was calculated as follows:

Mass Removal =
Volume of Water Extracted at Each Well x (Contaminant Concentration at Each Well – MPITS Effluent Concentration)

5.3 Remediation Systems Operation Costs

Table 5.9 presents the costs for operating the PFTS and MPITS for the 12 months from February 1, 2024 to January 31, 2025. The table summarizes the cost of the labor and materials for operation and maintenance of both systems, and includes the electrical costs associated with system operations.

6.0 Discussion and Conclusions

Routine groundwater monitoring is conducted at WSTF to support a variety of projects. The primary objectives of routine groundwater monitoring at WSTF are to delineate the extensive contaminant plume resulting from historical contaminant releases at the facility, support the development and implementation of corrective actions, and monitor the impact of these corrective actions during implementation and operation. Groundwater sampling at WSTF is currently focused on the Plume Front and Mid-plume areas, both of which are critical to NASA's overall groundwater remediation efforts.

This section provides discussion and conclusions based on the results of groundwater monitoring conducted at WSTF. Also included is a summary discussion of the remediation systems' performance, monitoring results, system modifications, and compliance with discharge requirements and/or applicable cleanup levels. Chemical analytical results from the PFTS, MPITS, and routine groundwater monitoring are compared to cleanup levels (refer to Appendix D). This section also provides NASA's anticipated future groundwater monitoring and related activities at WSTF.

6.1 Summary of Groundwater Monitoring Projects

Routine groundwater monitoring was performed during this quarter in accordance with currently approved permits, plans, and other regulatory requirements. In general, the WSTF contaminant plume is relatively stable in nature and extent. The potential for continued migration of the plume resulted in the development of the phased approach to groundwater remediation discussed in Section 1.0. NASA continues to collect a variety of groundwater data from the comprehensive WSTF groundwater monitoring network. Monitoring results are presented in detail in the relevant sections of this report and in later sections of this summary. Several noteworthy projects related to routine groundwater monitoring are discussed below.

6.1.1 Monitoring Well Performance or Sampling Equipment Issues

NASA performed all scheduled sampling during the previous (August 1 through October 31, 2024) and current (November 1, 2024 through January 31, 2025) reporting periods. The sampling of two monitoring wells was rescheduled from November 2024 to December 2024 to coincide with scheduled soil vapor sampling at those wells. There were no mechanical or technical issues that prevented sampling. This section does not address wells that were not sampled due to resource limitations.

Recent occurrences of sampling issues, backlog of prior unresolved issues, and issues resolved this quarter are summarized in Table 6.1.

6.1.2 Monitoring Well Installation and Well Plugging and Abandonment

There was no significant monitoring well installation or abandonment activities in the first quarter of 2025, though NASA completed project planning for the abandonment of well PFI-1 and mobilized the drilling subcontractor to WSTF on March 31, 2025. Appendix F provides additional details on well abandonment and installation activities.

6.1.3 Westbay Well Reconfiguration

There was no significant Westbay well reconfiguration work in the first quarter of 2025 while NMED reviewed several related documents. Historical information and full submittal history for well reconfiguration projects are provided in Appendix F.

6.1.4 Groundwater Monitoring Data Representativeness

There were no significant activities in the first quarter of 2025 related to groundwater data representativeness.

6.2 Comparison of Analytical Data to Cleanup Levels

This section and the associated appendix compare the chemical analytical data obtained from groundwater remediation system sampling points and groundwater monitoring wells to the approved cleanup levels provided in the GMP (NASA, 2024d, pp 11-12). Appendix D provides a comparison of groundwater data to cleanup levels for the current analytical reporting period.

6.2.1 Groundwater Monitoring Wells

Appendix D.1 includes a comparison of groundwater monitoring well data to applicable cleanup levels for the analytical reporting period. Only analytical results that exceed cleanup levels are included in the tables.

6.2.2 Plume Front Treatment System

Groundwater samples were collected from the PFTS influent and effluent as required by the RSMP (NASA, 2024f) and DP-1255 (NMED, 2023b, p8). Chemical analytical data from these sampling events were presented in Section 5.1.5 and Appendix A.4. Appendix D.2 includes any PFTS influent results that exceeded cleanup levels during the current analytical reporting period. The PFTS effluent met all DP-1255 discharge limits and Permit cleanup levels.

6.2.3 Mid-plume Interception and Treatment System

Groundwater samples were collected from the MPITS influent and effluent as required by the RSMP (NASA, 2024f) and DP-1255 (NMED, 2023b, p8). Chemical analytical data from these sampling events were presented in Section 5.2.5 and Appendix A.6. Appendix D.3 includes any MPITS influent data that exceeded cleanup levels during the current analytical reporting period. There were no DP-1255 discharge limit or cleanup level exceedances from the MPITS during the reporting period.

6.3 Contaminant Plume Evaluation

The plume evaluation for the first quarter of 2025 includes potentiometric surface maps and a variety of chemical analytical data.

6.3.1 Groundwater Elevations

A manually contoured potentiometric surface map (Figure 6.1) is provided for the WSTF Plume Front area that correlates with the end of the current reporting period. Data used to generate contours for this map are identical to the data used to generate the site-wide contours (Figure 4.1). Only slight variations in groundwater elevation changes were identified during the reporting period compared to the previous quarter. The 40-ft contour used in the site-wide potentiometric map is supplemented by 2-ft contours in the Plume Front potentiometric surface map. Arrows indicate the general direction of groundwater flow. The influence of PFTS operation is evident by the depression in the potentiometric surface that is caused by pumping at the PFE wells. The hydraulic mound produced by injecting treated water at the PFI wells is apparent at the southern edge of the figure.

Groundwater elevations measured in the MPCA during this analytical reporting period are presented in the manually contoured Mid-plume potentiometric surface map (Figure 6.2). Only slight variations in groundwater elevation changes were identified during the reporting period compared to the previous quarter. The data used to generate contours for this map are the same values used to generate the site-wide potentiometric map (Figure 4.1). The general west-trending groundwater flow direction through the Mid-plume area is apparent in Figure 6.2, though local variations may exist within discrete fractures or higher conductivity flow zones within the fractured bedrock aquifer in this area. Groundwater elevation is generally depressed downgradient of well MPE-11 near well MPE-6.

6.3.2 Plume iso-concentration maps

Figure 6.3 and Figure 6.4 present manually contoured iso-concentration maps of the Plume Front for NDMA and TCE using data processed during this reporting period. The manual contouring method allows a geologist to evaluate plume contaminants against interpreted hydrogeological features to create a realistic representation of the contaminant plume. Hydrogeological conditions considered during the manual contouring of contaminant concentrations are primarily hydrostratigraphic units or significant structural features that cause the juxtaposition of variable hydraulic conductivities. The lowest value solid iso-concentration line on each map corresponds to the required cleanup level for the analyte presented. The iso-concentration maps are consistent with the maps presented in previous reports (i.e., a like-to-like comparison in the case of NDMA), the monthly evaluation of contaminant concentrations, and site-wide plume maps that have been provided to NMED over the last several years.

6.3.3 Combined Plume Iso-concentration Maps and Potentiometric Surface Map

Figure 6.5 shows the interrelationship of the Plume Front potentiometric surface interpreted groundwater divide, and manually contoured TCE plume for the current analytical reporting period. TCE was selected because it is the most widely distributed health-risk-driving contaminant in the conceptualized contaminant plume.

6.3.4 Time-concentration Plots and Groundwater Data Analytical Trends

T-C plots are used to evaluate and summarize groundwater contaminant concentration trends in WSTF wells over time on a quarterly basis as presented in this report. An interpretation of the groundwater concentration trends shown in T-C plots for the first quarter 2025 is provided in this section.

To facilitate this evaluation, WSTF monitoring wells are grouped as listed in Table 3.3 of the GMP (NASA, 2024d, pp 79-85). T-C plots are generated using analytical data from each monitoring and remediation well where available. The concentration trends for four of the primary COCs (Trichlorofluoromethane [Freon 11], TCE, PCE, and NDMA) in groundwater are reviewed by technical

personnel to develop the summary map and table presented in Appendix E. This table includes the historical maximum contaminant concentration and latest concentration for the four primary COCs in conjunction with an interpretation of the latest concentration trend for each well. For NDMA, results are presented for both EPA Method 607 and low-level laboratory analysis where available. Each T-C trend evaluation places emphasis on the most recent analytical results, which may supersede earlier trends that may have been evident following initial well installation. As a result, the current T-C interpretation may not reflect the full historical variability in T-C behavior through the life of the well, particularly for the older wells at WSTF installed in the mid-1980s through the 1990s. Individual wells that have been out of service for several years and/or have been plugged and abandoned do not accurately represent current conditions and are excluded from the evaluation. Recently installed wells with less than four sampling events performed are also excluded from the evaluation.

The identification of a trend for COC concentrations within a specific well is based on the evaluation of analytical data collected over a minimum of four quarterly sampling events (datapoints) to provide adequate data for statistical analyses. This is the approach described in the United States *Environmental Protection Agency Groundwater Statistics Tool User's Guide* (EPA, 2018). This approach is necessary to avoid the premature determination of a trend that represents a short-term fluctuation that subsequently reverts to previous conditions. For wells that are not sampled on a quarterly schedule, the evaluation of four sampling events extends over a greater time interval. T-C plot trends are also evaluated in conjunction with other criteria before any modifications to the existing T-C plot interpretations are made, including:

- field sampling conditions,
- contracted analytical laboratory operations,
- hydrogeology,
- aquifer recharge conditions,
- well development activities,
- well contaminant concentration history, and
- any changes in the operational status of proximal remediation wells.

Most WSTF wells reflect either declining COC concentrations in groundwater over time, or fluctuating concentrations that have remained relatively consistent over the last several years. For this reporting period, two monitoring wells show increasing trends. Conventional monitoring well BLM-5-527 (MPCA Well Group) is characterized as having a "natural migration: increasing trend of one or more primary COCs" and multiport monitoring well ST-7 is characterized as having a "pumping-related migration: increasing trend of one or more primary COCs." A summary of each of the GMP well groups is provided in the following paragraphs, along with a discussion of the T-C plots for specific wells identified within the group. T-C plots for specific wells are also provided as attachments in Appendix E.

Upgradient (Background) Well Group: The four wells designated as upgradient groundwater monitoring wells are located east of the WSTF industrialized areas. There were no VOC or NDMA 607 detections in groundwater for this reporting period; However, detections of NDMA low level at 0.65 nanograms per liter (ng/L) was reported in well NASA 3 (also identified in the field blank) and 0.40 ng/L was reported in well 100-F-358. Wells 100-G-223 and 300-F-175 were classified as not detected (ND), and wells NASA 3 and 100-F-358 were classified as fluctuating low-level NDMA detections between the detection limit and <4.9 ng/L.

100/600 Area Well Group: Monitoring wells within this group are located within the 100 Area and the proximal 600 Area to the west in the vicinity of the 600 Area Closure. The wells are located near the southeastern boundary of the groundwater plume, with COCs inferred to be sourced by the former 600 Area Closure hazardous waste management unit (HWMU) and/or the 200 Area HWMUs and solid waste

management units (SWMUs). Most wells show a declining trend since the inception of sampling and there were no significant changes in the monitoring well interpretations for this reporting period. Several of the wells in this group are located within a confined area of groundwater contamination centered on the 600 Area Closure that is detached from the footprint of the primary groundwater plume to the north. These wells reflect a long-term decreasing concentration trend for Freon 11, TCE, and PCE since the inception of groundwater sampling in the oldest wells in the late 1980s. This trend is characteristic of wells screened within the fractured bedrock aquifer, and well 600-G-138 (T-C plot provided) that is screened across a localized perched groundwater horizon located on the top of andesite bedrock at the east corner of the 600 Area Closure. For example, the concentration of TCE in well 600-G-138 has declined from 130 micrograms per liter (µg/L) in 2012 to 49 µg/L in 2025. NDMA in groundwater is typically sourced from the 300 and 400 Areas and is not identified within the 100 and 600 Areas.

200 Area Well Group: The 200 Area is the primary historical source of TCE and Freon 11 groundwater contamination at WSTF. Maximum concentrations for these contaminants in monitoring wells were reported in the early through mid-1990s. Over the last 30 years, the majority of 200 Area T-C plots reflect a long-term decreasing trend in contaminant concentrations since the inception of sampling for these COCs and no significant changes in the interpretations were performed for this reporting period. As a typical example, the TCE concentration in well 200-D-240 (T-C plot provided) has decreased from 110 µg/L in 1990 to 15 µg/L in 2024. The decreases reflect natural plume migration and degradation under the influence of a steep east to west horizontal hydraulic gradient of 0.05 ft/ft within a fractured limestone aquifer in conjunction with the implementation of effective waste management practices in the 1980's that eliminated additional source discharges. Wells that display a fluctuating to relatively flat trend are typically screened across intervals in poorly fractured (lower hydraulic conductivity) andesite bedrock further to the west and southwest. These wells are characterized by low bedrock porosity, low hydraulic conductivity, reduced groundwater flow, and lower COC concentrations.

300/400 Area Well Group: T-C plots for monitoring wells show long-term COC concentration trends that fluctuate minimally and are relatively flat (typically wells screened within poorly fractured andesite bedrock near the 400 Area Closure HWMU or have declined since the inception of sampling over a period exceeding 35 years for the older monitoring wells installed in the late 1980s. There were no significant changes in the monitoring well interpretations for this reporting period. Declining trends are again associated with wells with higher hydraulic conductivity that are typically screened across the top of bedrock at the andesite-alluvium interface. These wells are located adjacent to the 300/400 Area primary arroyo with increased natural recharge from the Bear Canyon catchment area to the east. Wells that do not display declines are typically located off the axis of primary recharge drainages or are protected from direct precipitation infiltration by low permeability surfaces (300 and 400 Area Closure impoundment caps). Declining groundwater concentration trends in the 300 and 400 Areas can be attributed to the strong hydraulic gradient of 0.05 ft/ft in the area in conjunction with effective waste management practices implemented in the 1980s. Relatively flat trends for NDMA reported for monitoring wells screened below the alluvial-bedrock interface in andesite bedrock result from the limited connectivity of fractures and reduced flow through the sampling screen.

Northern Boundary Well Group: Many monitoring wells are characterized as ND over the long-term since the inception of sampling or display relatively low NDMA concentrations with slightly fluctuating to flat T-C trends. There was one significant change in the monitoring well interpretations for this monitoring period. Monitoring well JER-2, with a concentration of 1.47 ng/L from NDMA low-level analysis has dropped below the NDMA cleanup level of ≥ 4.9 ng/L. All monitoring wells are classified as either ND or "fluctuating low-level NDMA" <4.9 ng/L for this reporting period with the exception of well 700-D-186 that has a low concentration of TCE of 0.23 µg/L.

Southern Boundary Well Group: Monitoring wells located south of the NDMA and TCE plumes are below the low-level NDMA cleanup level of 4.9 ng/L and have been classified as ND or fluctuating low-level NDMA detections <4.9 ng/L. There were no changes to the interpretations for this reporting period. A single monitoring well (BLM-6-488, T-C plot provided) has shown irregular low concentrations of TCE over the long-term since 1995 (currently 2.8 µg/L) below the NMED TCE cleanup level (5.0 µg/L) and is characterized as exhibiting "natural migration: no overall trend of one or more primary COCs."

MPCA Well Group: T-C plots for monitoring wells in this group predominantly show long-term declining contaminant trends associated with either natural plume migration and attenuation or MPITS pumping that commenced in 2011. No significant changes to the interpretations of the analytical trends were performed for this reporting period T-C plots for wells BLM-21-400, BLM-26-404, BLM-36-350, BLM-18-430, and BLM-5-527 are included in Appendix E.

Well BLM-21-400 is located approximately 500 ft south of well MPE-11 and immediately downgradient of the primary confluence of the TCE and NDMA plumes from their respective source areas (Freon 11 and TCE originate from the 200 Area [characteristic of upgradient well BLM-14-327] and NDMA originates from the 300 and 400 Areas [characteristic of upgradient well BLM-15-305]). Contaminant concentrations in BLM-21-400 reflect a natural decreasing trend for Freon 11 (320 to 56 µg/L), TCE (220 to 37 µg/L), PCE (12 to 1.3 µg/L), and NDMA (5.6 to 0.83 µg/L) since well installation in 1991.

Multiport well BLM-36 is located downgradient and to the south-southwest of the MPITS. The T-C plots for the shallow zone in well BLM-36 (BLM-36-350) identify groundwater COCs. These have not been detected in deeper zones of this well, providing a significant location for vertical delineation in the Mid-plume. BLM-36-350 has previously shown both consistent and more declining concentrations for groundwater COCs since activation of the MPITS and is currently classified as "pumping-related migration – no overall trend."

Wells BLM-26-404, BLM-18-430, and BLM-5-527 are located in the northwest-trending arm of the WSTF groundwater contaminant plume that extends from the MPCA. These wells are monitored to determine the effect of operation of the MPITS on the migration of groundwater contaminants into this area. The T-C plots for wells BLM-26-404 and BLM-18-430 show an overall long-term decline in contaminant concentrations since startup of the MPITS in 2011, inferred to be related to the arrest of contaminant migration to the northwest arm through continuous operation of the MPE wells. Due to slight increases in the contaminant concentrations since February 2023, the current short-term classification for well BLM-26-404 is "natural migration – no overall T-C" trend. The increases may potentially be related to a reduction in extraction volume from the MPITS in recent years, and the increases are being monitored. Well BLM-5-527 is interpreted to have had a long-term "natural migration – increasing T-C" trend since 2009. This is supported by NASA's ongoing statistical evaluation of contaminant concentrations that show increasing trends for Freon 11, TCE, and NDMA. Increases in this well may reflect the migration of contaminants into low conductivity rhyolite bedrock near the leading edge of the northwest-trending arm. Although the flow of contaminant mass to this location was arrested following MPITS startup, COC mass already present within the arm may still be migrating into this location.

Main Plume Well Group: Wells in this group are located within the western section of the groundwater plume at the Plume Front and show widespread long-term declining trends related to natural migration or pumping based on the proximity to the PFTS extraction wells that became operational in the 2001 timeframe. No changes in the interpretation for the analytical trends were performed for this reporting period. Contaminant concentrations within this group decline during intervals of system operation and rebound during quiescent non-operational periods.

Plume Front Well Group: Monitoring wells within this group are located outside the boundary of the contaminant plume and groundwater analytical results reflect long-term "ND" or "fluctuating low-level NDMA detections <4.9 ng/L" since the inception of sampling. There was one significant change in analytical trends for this reporting period. Multiport monitoring well ST-7 at the leading edge of the TCE plume front (T-C plot provided) is characterized as having a "pumping-related migration: increasing trend of one or more primary COCs" for this quarter. The latest concentration for TCE is 5.8 µg/L and the trend in this well is under evaluation with respect to performance of the PFTS extraction wells.

Sentinel Well Group: Monitoring wells within this group form a more distal tier located outside the groundwater contaminant plume and have all historically shown long-term trends that are "ND" or "fluctuating low-level NDMA detections <4.9 ng/L" since the inception of sampling. For this reporting period, no fluctuating low-level NDMA detections ≥ 4.9 ng/L without other detectable COCs were identified.

Other Well Group – Mid-plume Extraction Wells: The T-C plots for the five MPITS wells are included in Appendix E. There were no significant changes in the extraction well interpretations for this reporting period. The COC concentrations for Freon 11 and TCE in wells MPE-8 (currently off-line), MPE-9, and MPE-11 have displayed no overall concentration trend since 2013 under the influence of extraction well pumping. Wells MPE-1 and MPE-10 are historically the operational wells with the highest COC and NDMA concentrations and show a short-term decreasing trend since 2021 associated with continued operation of the MPITS.

Other Well Group – Plume Front Extraction Wells: There were no significant changes in the extraction well interpretations for this reporting period. The T-C Plots for the six PFTS wells; PFE-1, PFE-2, PFE-3, PFE-4A, PFE-5, and PFE-7 are included in Appendix E. The high-volume extraction wells typically exhibit long-term declining trends when operational due to pumping-related plume dilution within the alluvial aquifer at the Plume Front. Well PFE-2 has shown pumping-related short-term fluctuations since 2021 and is being carefully monitored for increases in contaminant concentrations.

6.4 Summary of Source Area Investigations

The following subsections summarize the status of each SWMU or HWMU at WSTF and provide specific information on work performed during the first calendar quarter of 2025; January 1 – March 31, 2025. Relevant historical information including investigation status, and full submittal history for each potential source area is provided in Appendix F.

6.4.1 200 Area

NASA continues work associated with the investigation of two HWMUs and SWMUs in the 200 Area. NASA performed a wide-area soil vapor survey in the 200 and 600 Areas to assess the potential risk to workers posed by soil vapor intrusion into the buildings adjacent to areas with the greatest soil vapor concentrations. NMED approved NASA's report on the assessment with modifications that NASA addressed. During the first quarter of 2025, activities related to this area included:

- NMED continued reviewing the follow-on *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP)* (November 26, 2024; NASA, 2024n).

6.4.2 300 Area

In the first quarter 2025, NMED continued reviewing the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV and 400-001-GW Analytical Results* (NASA, 2024i) and the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV* (NASA, 2024j). Soil vapor samples from the initial monitoring event performed at wells 300-001-GSV and 300-002-GSV on December 12, 2024 exceeded 30-day holding times at the contracted analytical laboratory due to rolling power outages in California in January 2025. Soil vapor resampling was performed on February 19, 2025. The results were received and provided to NMED on April 7, 2025.

6.4.3 400 Area

NASA prepared and submitted the *400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Third Quarter 2024* on February 25, 2025 (NASA, 2025). A component of the soil vapor samples from the fourth monitoring event performed on December 12, 2024 exceeded 30-day holding times at the contracted analytical laboratory due to rolling power outages in California in January 2025. NASA has received the soil vapor analytical results and is reviewing these in conjunction with groundwater analytical data in preparation for the fourth quarterly report, which is due to NMED by May 30, 2025.

6.4.4 600 Area Perched Groundwater Extraction and Investigations

NASA is currently conducting a perched groundwater extraction pilot test in the 600 Area and related investigations into the presence of additional perched groundwater beneath and adjacent to the 600 Area Closure. During the first quarter of 2025, activities related to this SWMU included:

- NASA extracted approximately 502 gallons of perched groundwater from monitoring well 600-G-138 in accordance with NMED's March 1, 2013 *Approval Time Extension for Implementation of the Perched Groundwater Extraction Pilot Test at the 600 Area* (NMED, 2013). Groundwater elevation measurements indicate there is approximately 2.92 ft of perched groundwater within this well. This perched groundwater thickness has been relatively consistent since the inception of extraction activities in 2013. Extracted groundwater was containerized for treatment at the MPITS and discharged in accordance with DP-1255.
- NASA began preparation of the *600 Area Perched Groundwater Extraction Pilot Test Interim Status Report – Project Year 12*.
- NASA began project planning for Phase 2a of the perched groundwater investigation as indicated in the *600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan* (November 27, 2023; NASA, 2023c).

6.4.5 SWMUs 2, 8, and 34 and Area of Concern (AOC) 51 (Wastewater Lagoons)

NASA completed investigation reporting work required to support closure of the WSTF Wastewater Lagoons in the 100, 200, and 600 Areas and at the Second Tracking and Data Relay Satellite (TDRS) Ground Terminal (STGT). Activities during the first quarter of 2025 are summarized below. More detailed information is provided in Appendix F.

- On December 9, 2024, NMED disapproved the Response to Disapproval of 600 Area Lagoons (SWMU 34) Investigation Report and Risk Screen Evaluation, submitted on February 21, 2024 (NASA, 2024b). NMED directed NASA to address 18 comments and submit a revised report no later than March 31, 2025 (NMED, 2024c).

- NMED is reviewing the *Response to Disapproval of NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* (April 30, 2024; NASA, 2024e) and the *Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report* (August 29, 2024; NASA, 2024h).

6.4.6 SWMU 10 (200 Area Hazardous Waste Transmission Lines)

There was no significant activity associated with SWMU 10 in the first quarter of 2025. Complete information on the SWMU is provided in Appendix F.

6.4.7 SWMU 16 (600 Area Bureau of Land Management [BLM] Off-Site Pile)

NASA is performing a multi-part investigation of the 600 Area BLM Off-Site Pile and has addressed NMED comments on several investigation-related documents. Activities in the first quarter of 2025 were:

- NMED continued reviewing the *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation* (November 19, 2024; NASA, 2024k).

6.4.8 SWMUs 21–27 (Septic Tanks)

NASA previously determined that these units are suitable for corrective action complete status and submitted the *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit* on November 21, 2024 (NASA, 2024l). During the first quarter of 2025, NMED continued reviewing the Permit modification request.

6.4.9 SWMUs 29 (STGT Small Arms Firing Ranges)

There was no significant activity associated with SWMU 29 in the first quarter of 2025. Complete information on the SWMU is provided in Appendix F.

6.4.10 SWMU 33 (300 Area Test Stand 302 Cooling Water Pond)

There was no significant activity associated with SWMU 33 in the first quarter of 2025. Complete information on the SWMU is provided in Appendix F.

6.4.11 SWMU 47 (500 Fuel Storage Area)

There was no significant activity associated with SWMU 47 in the first quarter of 2025. Complete information on the SWMU is provided in Appendix F.

6.4.12 SWMU 49 (700 Area Landfill)

There was no significant activity associated with SWMU 49 in the first quarter of 2025. Complete information on the SWMU is provided in Appendix F.

6.4.13 SWMU 50 (First TDRS Diesel Release)

There was no significant activity associated with SWMU 50 in the first quarter of 2025. Complete information on the SWMU is provided in Appendix F.

6.4.14 SWMU 52 (Second TDRS Underground Storage Tank)

No additional activity is planned at this SWMU for the foreseeable future following NMED's approval with a modification on August 8, 2022 (NMED, 2022).

6.4.15 SWMU 54 (500 Area Former Oxidizer Burner)

During the first quarter of 2025, NMED continued reviewing the *500 Area Former Oxidizer Burning (SWMU 52) Investigation Report*, submitted to NMED on July 25, 2024 (NASA, 2024g).

6.4.16 Dye Tracer Test Investigation

Activities during the first quarter of 2025 included the following:

- Previously, NASA submitted the *Request for Extension of Time for Submittal of the Groundwater Monitoring Well Completion Report for Wells Downgradient of WSTF 200 and 400 Areas* (NASA, 2024a). NMED approved the request, extending the due date for submittal of the well completion reports to December 31, 2024 (NMED, 2024a).
- NASA submitted the *Corrective Action Projects; Proposal to Restructure Priorities and Schedule* on December 13, 2024 (NASA, 2024o), in which an alternate well installation schedule was proposed. NMED responded to that recommendation with direction for NASA to submit a request for extension of time for submittal of the final investigation report (NMED, 2025).

6.4.17 Per- and polyfluoroalkyl substances

Based on the results of per- and polyfluoroalkyl substances (PFAS) Preliminary Assessment (PA) performed by a NASA Headquarters contractor, NASA continued developing plans to perform additional investigation fieldwork consisting of groundwater and soil sampling, as well as the installation of two conventional groundwater monitoring wells. NASA submitted the *Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas (Proposed Monitor Wells for PFAS Assessment)* on April 13, 2023 (NASA, 2023a). NMED approved the work plan with modifications on May 23, 2023 (NMED, 2023c) and directed NASA to address four NMED comments and submit a revised work plan no later than August 31, 2023. NASA submitted the *Response to Approval with Modifications Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas* on June 12, 2023 (NASA, 2023b). NASA performed fieldwork in accordance with the plan in July through September 2023 and submitted the *NASA White Sands Test Facility (WSTF) Well Completion Report for PFAS Site Investigation Well Completion Summary Report* on March 29, 2024 (NASA, 2024c). NMED approved the report with modifications on November 5, 2024, and directed NASA to address a comment and submit a revised report no later than January 31, 2025 (NMED, 2024b). NASA provided NMED the *WSTF PFAS Preliminary Assessment Report and WSTF PFAS Site Investigation Report* as an enclosure to the *Response to Approval with Modifications NASA WSTF Periodic Monitoring Report – Fourth Quarter 2023* on November 25, 2024 (NASA, 2024m). NMED reviewed the site inspection report and provided informal comments on February 6, 2025. NMED provided 16 comments regarding additional PFAS investigation requirements. NASA is evaluating NMED's comments and developing an investigation work plan for additional site assessment for PFAS at WSTF.

7.0 Planned Activities

This section discusses NASA's planned activities related to groundwater monitoring at WSTF.

7.1 Groundwater Monitoring and Related Projects

7.1.1 Monitoring Well Performance or Sampling Equipment Issues

There were no unresolved mechanical or well performance issues at groundwater monitoring wells in the data reporting period (November 1, 2024 through January 31, 2025). The backlog of prior unresolved issues is shown on Table 6.1. The section also presents issues that have been resolved.

7.1.2 Westbay Well Reconfiguration.

NASA plans to replace former Westbay monitoring well BLM-30 with well BLM-43 (NASA, 2021b, p1) at a later date. Additional Westbay wells are also scheduled for reconfiguration pending NMED approval of associated work plans. Additional information is provided in Appendix F.

7.1.3 Monitoring Well Installation

NASA plans to work with NMED to develop an appropriate schedule for Westbay well reconfiguration. Additional information is provided in Appendix F.

7.2 Groundwater Remediation System Monitoring

The RSMP (NASA, 2024f) and DP-1255 (NMED, 2023b) include provisions for monitoring the effectiveness of the PFTS and MPITS. Sampling at designated locations, including extraction wells and remediation system sampling points, will continue as required during remediation system operational periods in accordance with the RSMP and/or DP-1255. Monitoring well sampling to assess remediation system effectiveness will continue in accordance with the GMP (NASA, 2024d).

8.0 References

Environmental Protection Agency (EPA). (2018, September). *Groundwater Statistics Tool User's Guide.* Section 1.2, Page 3. Washington, DC.

NASA Johnson Space Center White Sands Test Facility. (2021, September 28). *Request for Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023a, April 13). *Proposed Monitor Wells for PFAS Assessment*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023b, June 12). *Response to Approval with Modifications Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023c, November 27). *NASA White Sands Test Facility (WSTF) 600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024a, February 21*). Request for Extension of Time for Submittal of the Groundwater Monitoring Well Completion Report for Wells Downgradient of WSTF 200 and 400 Areas.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024b, February 21). *Response to Disapproval of the NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024c, March 29). *NASA White Sands Test Facility (WSTF) Well Completion Report for PFAS Site Investigation Well Completion Summary.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024d, April 29). *NASA WSTF Groundwater Monitoring Plan Update for 2024*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024e, April 30). *Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024f, July 23*). NASA WSTF Remediation System Monitoring Plan Annual Update for 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024g, July 25*). NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (SWMU 54) Investigation Report (IR).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024h, August 29). *Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024i, October 3). *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV and 400-001-GW Analytical Results*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024j, October 3). *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024k, November 19). *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024l, November 21). *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024m, November 25). *Response to Approval with Modifications NASA WSTF Periodic Monitoring Report – Fourth Quarter 2023*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024n, November 26). *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP)*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024o, December 13). *Corrective Action Projects; Proposal to Restructure Priorities and Schedule*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2025, February 25). *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Third Quarter 2024.* Las Cruces, NM.

NMED Hazardous Waste Bureau. (2013, March 1). *Approval Time Extension for Implementation of the Perched Groundwater Extraction Pilot Test at the 600 Area*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022, August 8). *Approval with Modification Second TDRSS Underground Storage Tank (SWMU 52) Release Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023a, March 28). *RCRA Permit EPA ID # NM8800019434*. Santa Fe, NM.

NMED Ground Water Quality Bureau. (2023b, May 17). *Discharge Permit Renewal and Invoice, DP-1255, NASA White Sands Test Facility, Plume Front Treatment System (PFTS) and Mid-plume Interception and Treatment System (MPITS)*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023c, May 23). *Approval with Modification Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023d, November 27). *Approval Drilling Work Plan for Proposed NASA WSTF Well 600C-004-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023e, November 27). *Approval with Modifications Work Plan for Abandonment of NASA WSTF Well BLM-1-435 and Replacement with Monitoring Well 600C-003-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024a, March 7*). Approval of Request for Extension of Time for Submittal of the Groundwater Monitoring Well Completion Report for Wells Downgradient of WSTF 200 and 400 Areas.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024b, November 5). *Approval with Modification PFAS Well Completion Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024c, December 9). *Disapproval 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report*. Santa Fe, NM.

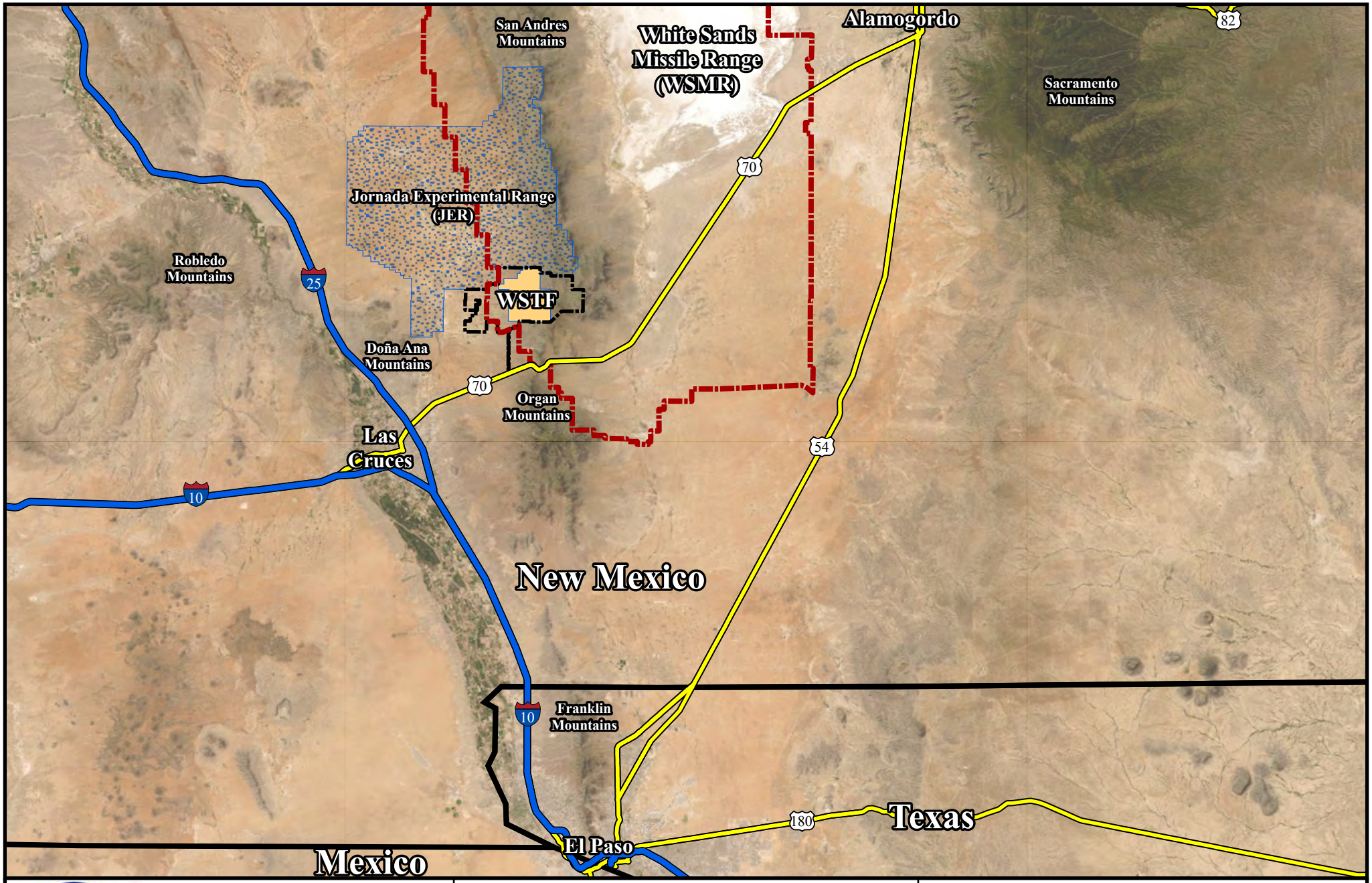
NMED Hazardous Waste Bureau. (2024d, December 30). *Approval with Modifications NASA WSTF Periodic Monitoring Report for First Quarter 2024*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2025, February 3). *Corrective Action Projects: Proposal to Restructure Priorities and Schedule.* Santa Fe, NM.

Figures

Figure 1.1 **WSTF Location Map**

(SEE NEXT PAGE)



N
W E
S

1:750,000

Miles
0 6 12 24

April 2025

Edited by: srees

- WSMR Boundary
- WSTF Boundary
- Jornada Experimental Range (JER)
- WSTF Industrial Area

WSTF Location Map

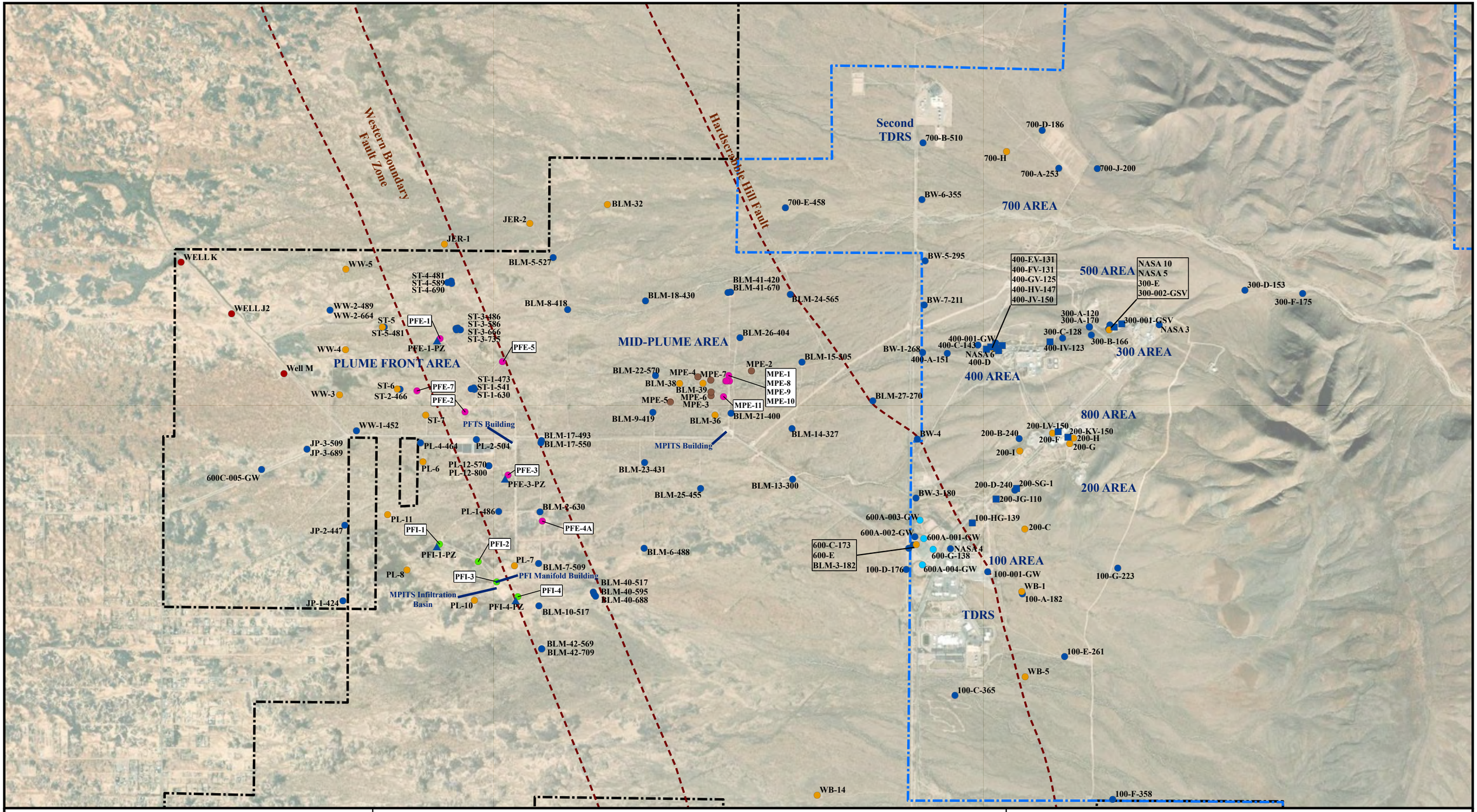
NASA Johnson Space Center
White Sands Test Facility
Las Cruces, New Mexico

Coordinate System:
NAD 1983 StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2023\4thQuarter\Site_Maps\

Figure 1.2 **WSTF Well Location Map**

(SEE NEXT PAGE)



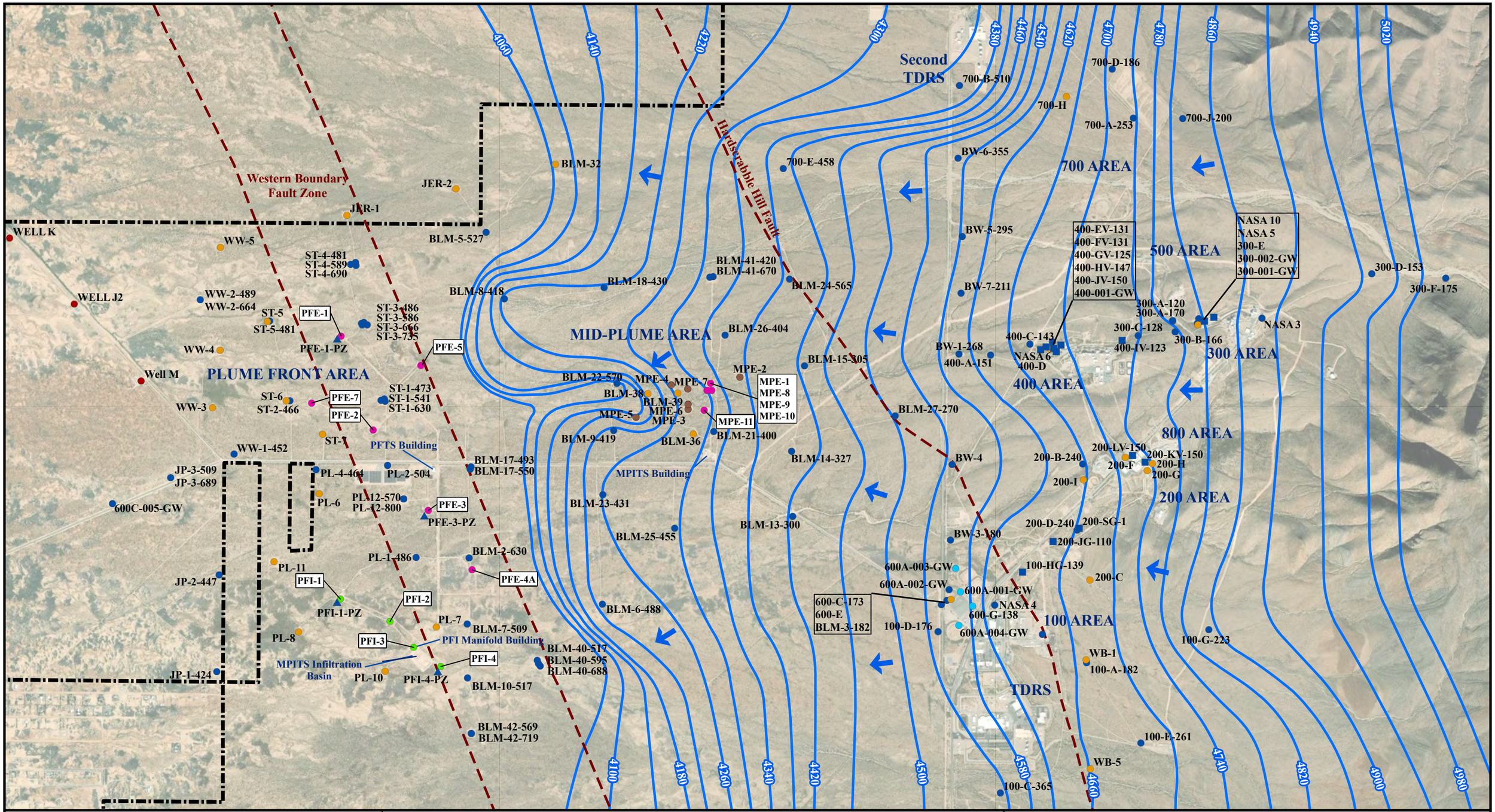
WSTF Well Location Map

NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet
G:\Projects\environmental\PMR\2025\1Q2025\Plume_Maps\

Figure 4.1 Groundwater Elevations and Generalized Flow Directions for the Reporting Period

(SEE NEXT PAGE)



Site-Wide Groundwater Elevations for First Quarter 2025

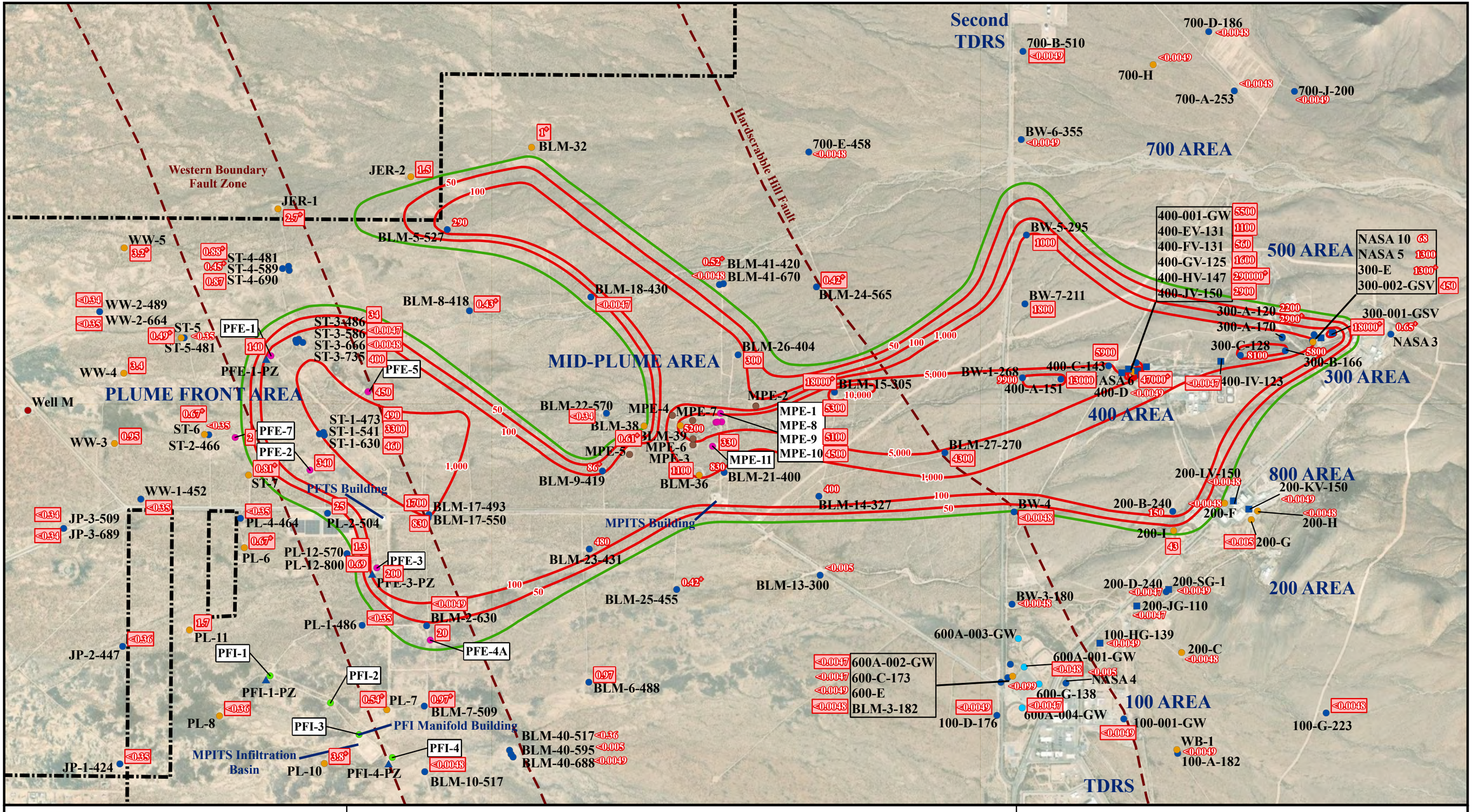
NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2025\1Q2025\WL_Maps\

Figure 4.2 Site-wide N-Nitrosodimethylamine (NDMA) Concentrations for the Reporting Period

(SEE NEXT PAGE)



NDMA Maximum Concentrations in Groundwater for First Quarter 2025

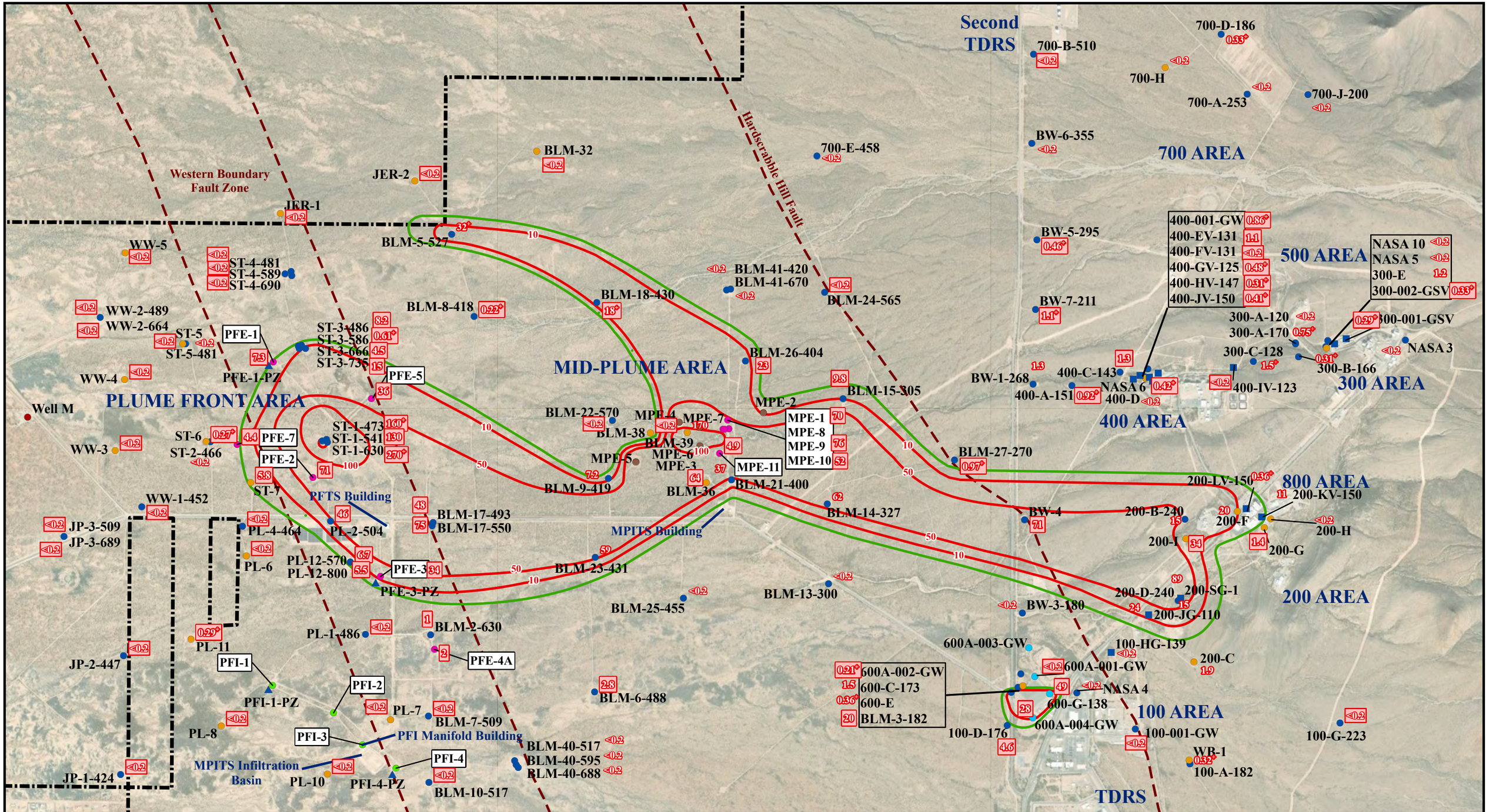
NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2025\1Q2025\Plume_Maps\

Figure 4.3 Site-Wide Trichloroethene (TCE) Concentrations for the Reporting Period

(SEE NEXT PAGE)





1 in = 1,600 ft

Feet

0 1,600 3,200

N

W E

S

April 2025

Prepared by: srees

- Conventional Well
- Exploration Well
- Extraction Well
- Injection Well
- Multiport Well
- Perched Well
- Piezometer
- Production Well
- MSVGM Well
- Fault
- WSTF Boundary
- 10 Equiconcentration Line (ug/L)
- TCE Cleanup Level (5.0 ug/L)

Note:
+ - Data value has a QA flag. See Appendix A.2 for specific flags.
50 - Sample event result was within the quarterly date range. No outline indicates an earlier sample event.
- Non-detect values displayed "<Detection Limit" in µg/L.
- No value indicates the well has not been sampled in the last year.

TCE Maximum Concentrations in Groundwater for First Quarter 2025

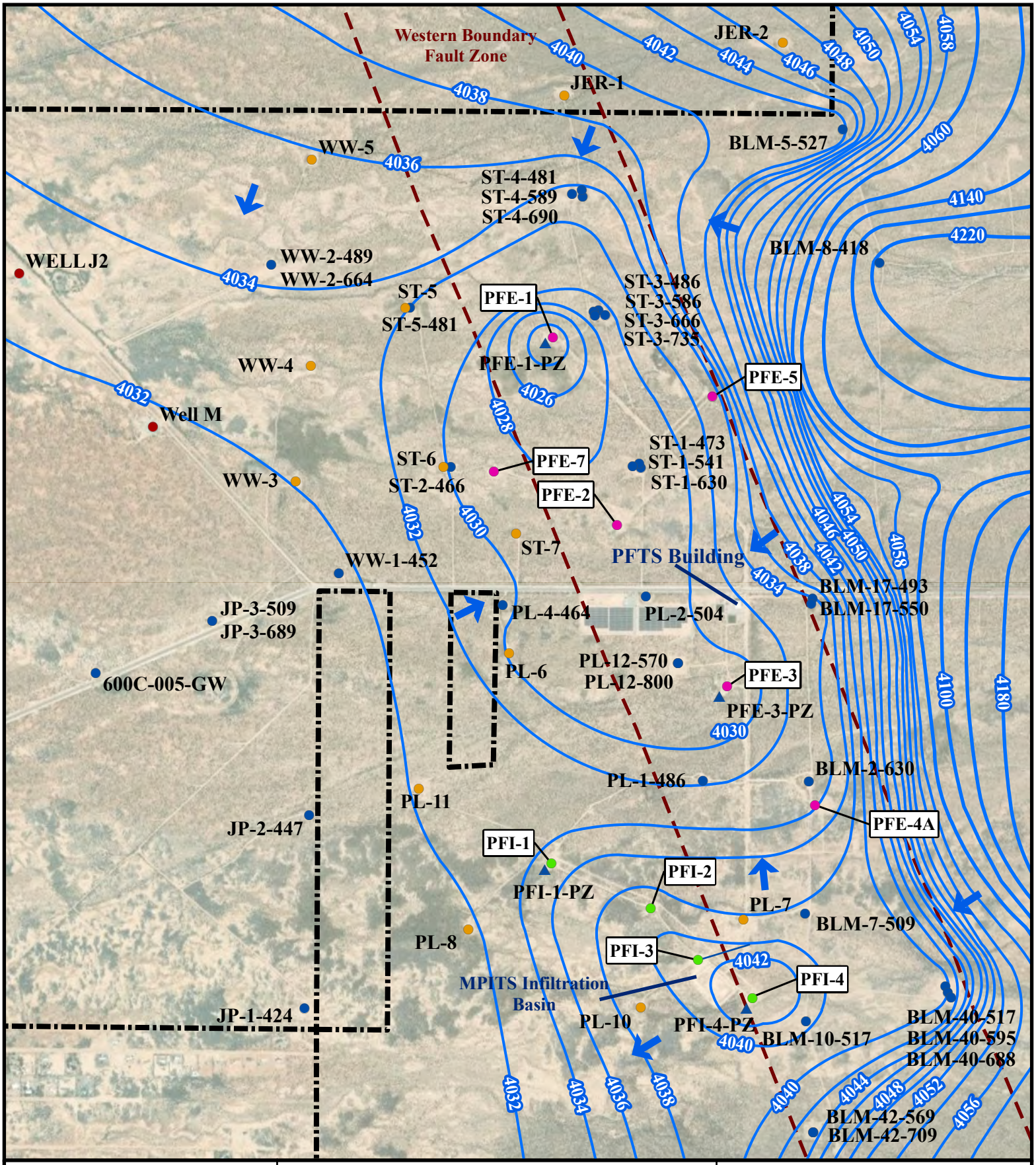
NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2024\3Q2024\Plume_Maps\

Figure 6.1 Plume Front Groundwater Elevations for the Reporting Period

(SEE NEXT PAGE)



Plume Front Groundwater Elevations for First Quarter 2025

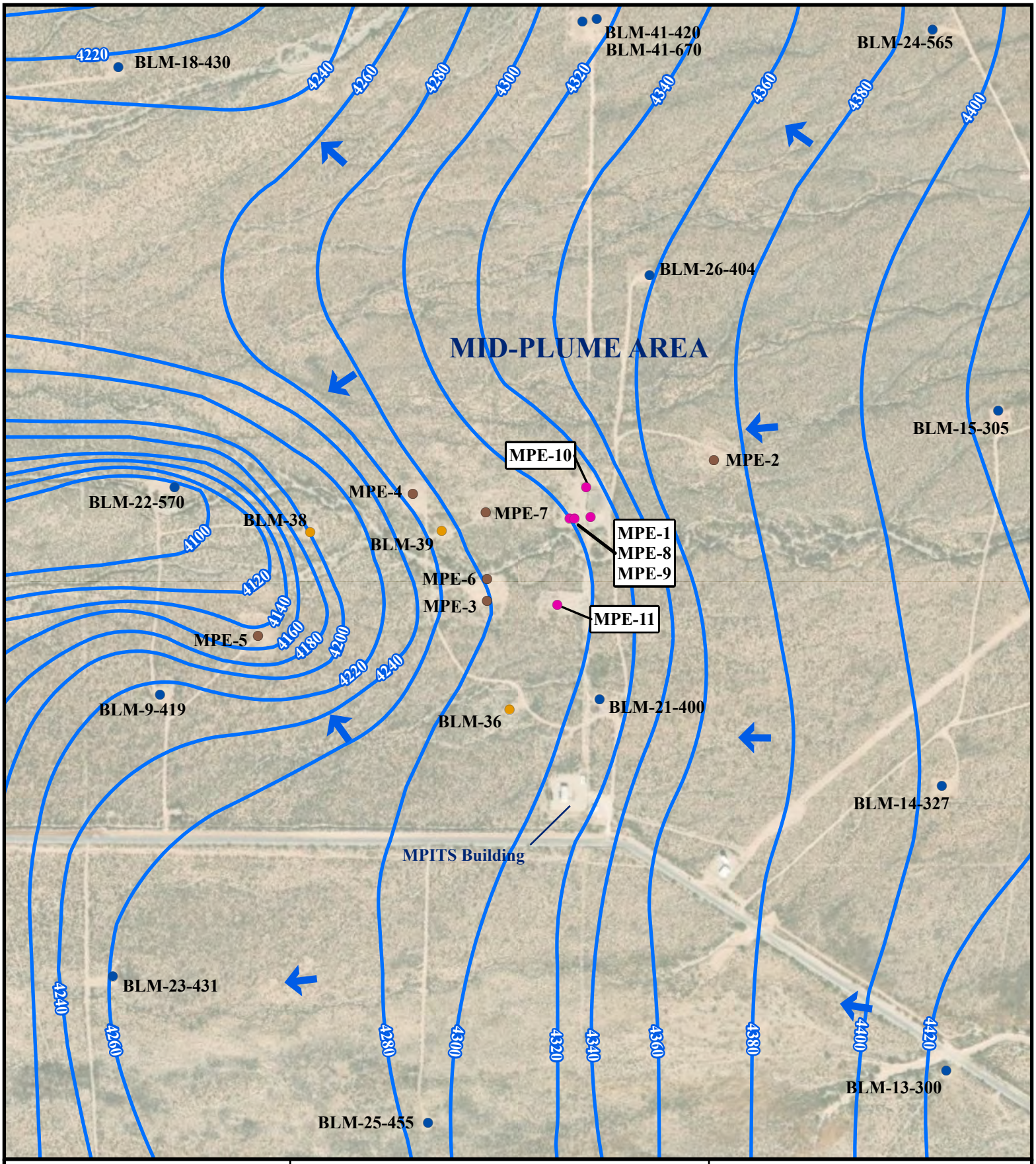
NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2025\1Q2025\WL_Maps\

Figure 6.2 Mid-plume Groundwater Elevations for the Reporting Period

(SEE NEXT PAGE)



N
W E
S

April 2025

1:7,650

0 315 630 Feet

Prepared by: srees

- Conventional Well
- Exploration Well
- Extraction Well
- Multiport Well

Groundwater Elevation 20 feet Contour

Groundwater Flow Direction

Mid-Plume Groundwater Elevations for First Quarter 2025

NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2025\1Q2025\WL_Maps\

Figure 6.3 NDMA Concentrations at the Plume Front for the Reporting Period

(SEE NEXT PAGE)

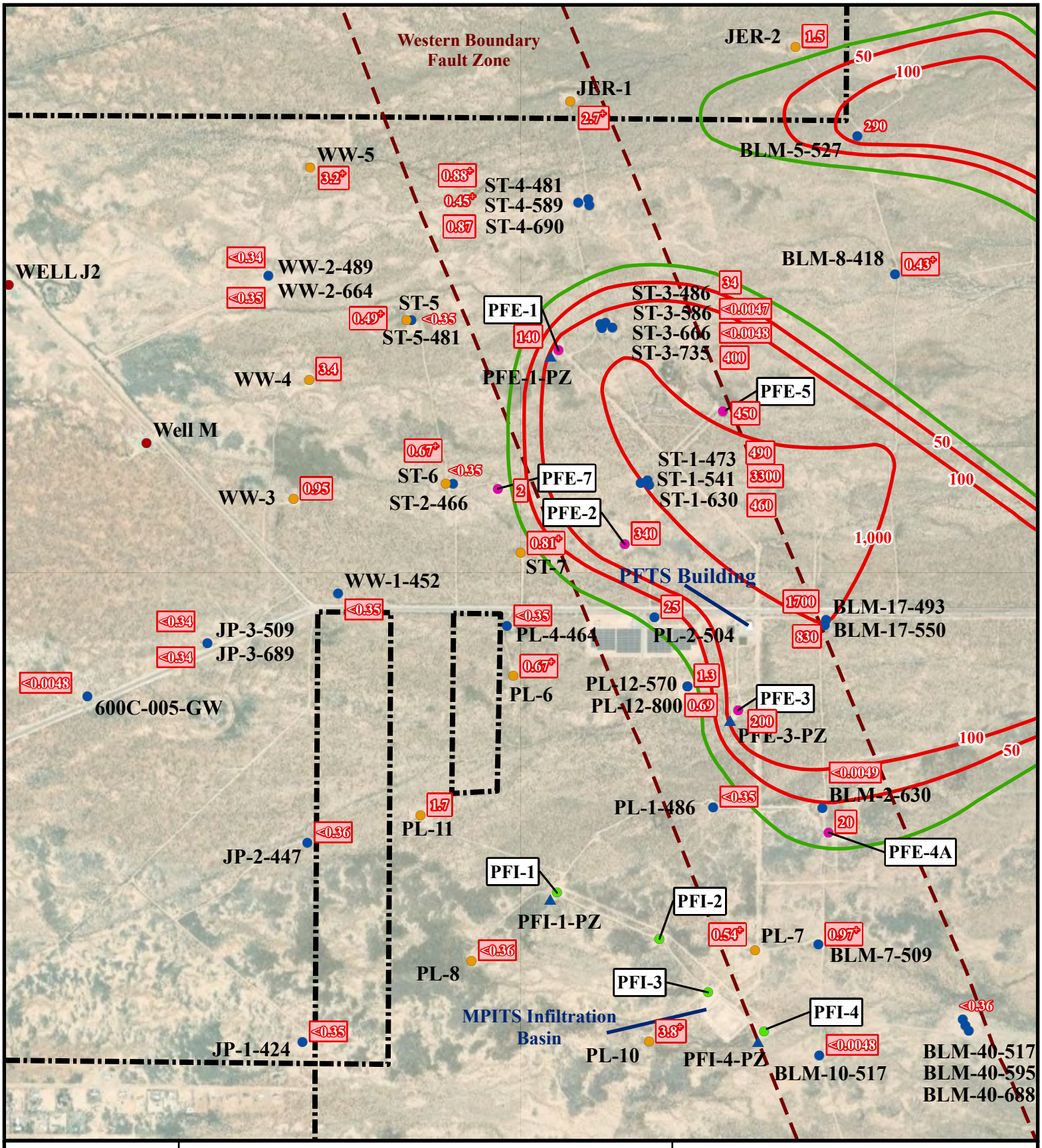
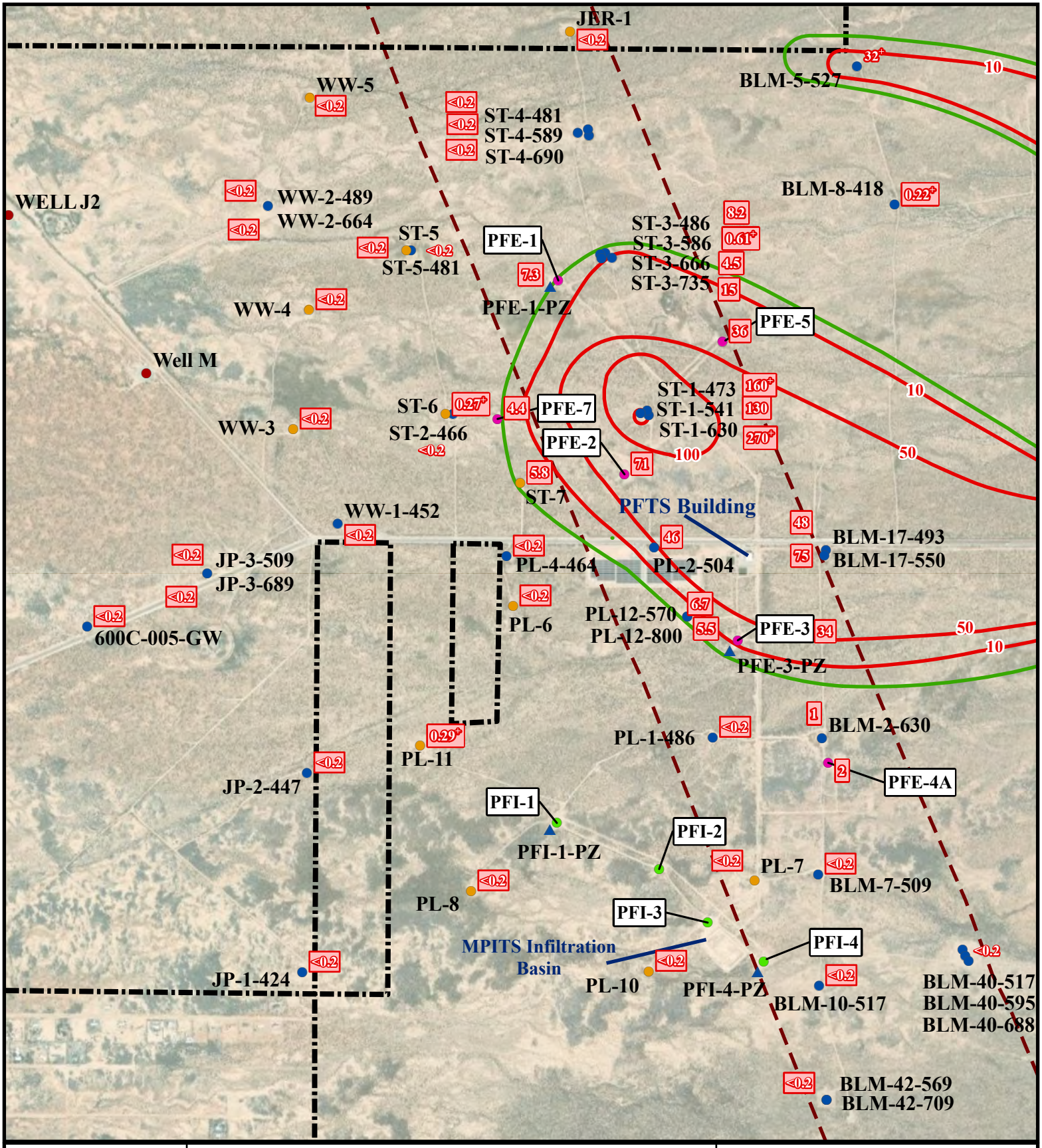

Western Boundary Fault Zone
JER-2
1.5
JER-1
2.7+
BLM-5-527
290
50
100
WW-5
3.2+
0.88+
0.45+
0.87
ST-4-481
ST-4-589
ST-4-690
WELL J2
<0.34
<0.35
WW-2-489
WW-2-664
ST-5
0.49+
<0.35
ST-5-481
PFE-1
140
PFE-1-PZ
ST-3-486
ST-3-586
ST-3-666
ST-3-735
34
<0.0047
<0.0048
400
BLM-8-418
0.43+
WW-4
3.4
PFE-5
450
Well M
0.67+
ST-6
<0.35
ST-2-466
WW-3
0.95
PFE-7
2
PFE-2
340
0.81+
ST-7
ST-1-473
ST-1-541
ST-1-630
490
3300
460
50
100
1,000
WW-1-452
<0.35
PFTS Building
25
PL-2-504
1700
830
BLM-17-493
BLM-17-550
<0.34
<0.34
JP-3-509
JP-3-689
<0.35
PL-4-464
<0.0048
600C-005-GW
0.67+
PL-6
PL-12-570
PL-12-800
1.3
0.69
PFE-3
200
PFE-3-PZ
100
50
<0.0049
BLM-2-630
PL-1-486
<0.35
20
PFE-4A
1.7
PL-11
<0.36
JP-2-447
PFI-1
PFI-1-PZ
PFI-2
0.54+
PL-7
0.97+
BLM-7-509
<0.36
PL-8
PFI-3
MPITS Infiltration Basin
PFI-4
<0.36
<0.35
JP-1-424
3.8+
PL-10
PFI-4-PZ
<0.0048
BLM-10-517
BLM-40-517
BLM-40-595
BLM-40-688
N
W
E
S
April 2025
0 350 700 1,400 Ft
Prepared by:srees
Conventional Well
Extraction Well
Injection Well
Multiport Well
Piezometer
Production Well
WSTF Boundary
Fault
50 Equiconcentration Line (ng/L)
NDMA Cleanup Level (4.9 ng/L)
Note:
Method 607 NDMA results corrected for extraction efficiency.
+ - Data value has a QA flag. See Appendix A.2 for specific flags.
50 Sample event result was within the quarterly date range. No outline indicates an earlier sample event.
- Non-detect values displayed "<Detection Limit" in ng/L.
- No value indicates the well has not been sampled in the last year.
Plume Front NDMA Maximum Concentrations in Groundwater for First Quarter 2025
NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico
Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet
G:\Projects\environmental\PMR\2025\1Q2025\Plume_Maps\

Figure 6.4 TCE Concentrations at the Plume Front for the Reporting Period

(SEE NEXT PAGE)



Plume Front TCE Maximum Concentrations in Groundwater for First Quarter 2025

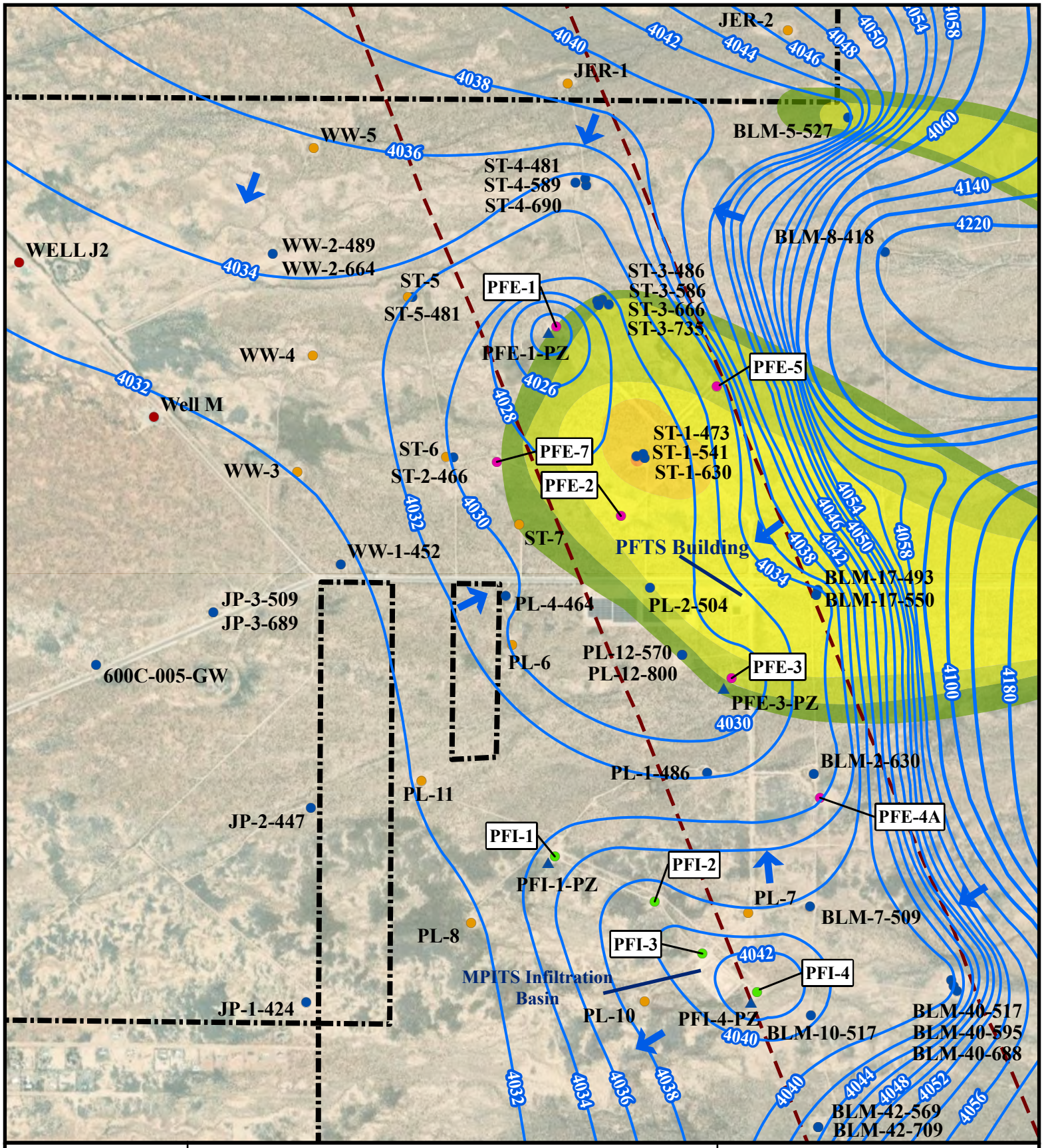
NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2024\3Q2024\Plume_Maps\

Figure 6.5 TCE Concentrations at the Plume Front for the Reporting Period

(SEE NEXT PAGE)



Plume Front Groundwater Elevations and TCE Concentration for First Quarter 2025

NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2025\1Q2025\Plume_Maps\

Tables

Table 3.1 DP-1255 Discharge Standards and Groundwater Cleanup Levels for WSTF COCs

Contaminant	Chemical Abstract Number	DP-1255 Standard (µg/L)	Cleanup Level (µg/L)
Carcinogens			
NDMA	62-75-9	0.0042	0.00491[1]
TCE	79-01-6	5.0	5.0[2]
PCE	127-18-4	1.1	5.0[2]
Chloroform	67-66-3	1.9	100[2]

Notes:

[1] Cleanup Level based on most recent version of the NMED Risk Assessment Guidance for Site Investigations and Remediation (RAG), Appendix A, Tap Water (Cancer).

[2] Cleanup Level established by WQCC – New Mexico Water Quality Control Commission Numerical Standard (from 20.6.2.3103 NMAC).

Table 3.2 Accepted New Detections for This Reporting Period

Well ID	CAS Number	Analyte
400-IV-123	75-43-4	Dichlorofluoromethane (CFC 21)
ST-1-541	7439-89-6	Iron, Total
ST-1-541	7439-96-5	Manganese, Total

Table 3.3 Unconfirmed New Detections – Resolution Pending

Well ID	CAS Number	Analyte	Scheduled Resample Date
NASA 3	75-15-0	Carbon Disulfide	2/19/2025
NASA 3	62-75-9	N-Nitrosodimethylamine	2/19/2025
100-C-365	375-22-4	PFBA	2/24/2025
100-C-365	335-76-2	PFDA	2/24/2025
100-C-365	307-55-1	PFDoA	2/24/2025
100-C-365	375-85-9	PFHpA	2/24/2025
100-C-365	307-24-4	PFHxA	2/24/2025
100-C-365	375-95-1	PFNA	2/24/2025
100-C-365	335-67-1	PFOA	2/24/2025
100-C-365	1763-23-1	PFOS	2/24/2025
100-C-365	2706-90-3	PFPeA	2/24/2025
100-C-365	2058-94-8	PFUnA	2/24/2025
100-D-176	375-22-4	PFBA	2/24/2025
100-D-176	375-73-5	PFBS	2/24/2025
100-D-176	375-85-9	PFHpA	2/24/2025
100-D-176	307-24-4	PFHxA	2/24/2025
100-D-176	355-46-4	PFHxS	2/24/2025
100-D-176	335-67-1	PFOA	2/24/2025
100-D-176	2706-90-3	PFPeA	2/24/2025
100-D-176	2706-91-4	PFPeS	2/24/2025
200-B-240	375-22-4	PFBA	2/24/2025
200-B-240	375-73-5	PFBS	2/24/2025
200-B-240	375-85-9	PFHpA	2/24/2025
200-B-240	307-24-4	PFHxA	2/24/2025
200-B-240	355-46-4	PFHxS	2/24/2025
200-B-240	335-67-1	PFOA	2/24/2025
200-B-240	1763-23-1	PFOS	2/24/2025
200-B-240	2706-90-3	PFPeA	2/24/2025
200-B-240	2706-91-4	PFPeS	2/24/2025
200-D-240	375-22-4	PFBA	2/24/2025
200-D-240	375-73-5	PFBS	2/24/2025
200-D-240	375-85-9	PFHpA	2/24/2025
200-D-240	307-24-4	PFHxA	2/24/2025
200-D-240	355-46-4	PFHxS	2/24/2025
200-D-240	335-67-1	PFOA	2/24/2025
200-D-240	1763-23-1	PFOS	2/24/2025
200-D-240	2706-90-3	PFPeA	2/24/2025
200-D-240	2706-91-4	PFPeS	2/24/2025
200-F-225	375-22-4	PFBA	2/24/2025

Well ID	CAS Number	Analyte	Scheduled Resample Date
200-F-225	375-22-4	PFBA	2/24/2025
200-F-225	375-73-5	PFBS	2/24/2025
200-F-225	375-73-5	PFBS	2/24/2025
200-F-225	307-24-4	PFHxA	2/24/2025
200-F-225	307-24-4	PFHxA	2/24/2025
200-F-225	355-46-4	PFHxS	2/24/2025
200-F-225	355-46-4	PFHxS	2/24/2025
200-F-225	335-67-1	PFOA	2/24/2025
200-F-225	335-67-1	PFOA	2/24/2025
200-F-225	1763-23-1	PFOS	2/24/2025
200-F-225	1763-23-1	PFOS	2/24/2025
200-F-225	2706-91-4	PFPeS	2/24/2025
200-G-175	375-22-4	PFBA	2/24/2025
200-G-175	375-73-5	PFBS	2/24/2025
200-G-175	375-85-9	PFHpA	2/24/2025
200-G-175	307-24-4	PFHxA	2/24/2025
200-G-175	355-46-4	PFHxS	2/24/2025
200-G-175	335-67-1	PFOA	2/24/2025
200-G-175	1763-23-1	PFOS	2/24/2025
200-H-225	335-67-1	PFOA	2/24/2025
BLM-14-327	375-22-4	PFBA	2/24/2025
BLM-14-327	375-73-5	PFBS	2/24/2025
BLM-14-327	375-85-9	PFHpA	2/24/2025
BLM-14-327	307-24-4	PFHxA	2/24/2025
BLM-14-327	355-46-4	PFHxS	2/24/2025
BLM-14-327	335-67-1	PFOA	2/24/2025
BLM-14-327	1763-23-1	PFOS	2/24/2025
BLM-14-327	2706-90-3	PFPeA	2/24/2025
BLM-3-182	335-76-2	PFDA	2/24/2025
BLM-3-182	375-85-9	PFHpA	2/24/2025
BLM-3-182	307-24-4	PFHxA	2/24/2025
BLM-3-182	355-46-4	PFHxS	2/24/2025
BLM-3-182	375-95-1	PFNA	2/24/2025
BLM-3-182	335-67-1	PFOA	2/24/2025
BLM-3-182	2706-90-3	PFPeA	2/24/2025
BLM-3-182	2058-94-8	PFUnA	2/24/2025
ST-1-541	375-22-4	PFBA	2/24/2025
ST-1-541	375-73-5	PFBS	2/24/2025
ST-1-541	335-76-2	PFDA	2/24/2025
ST-1-541	375-85-9	PFHpA	2/24/2025

Well ID	CAS Number	Analyte	Scheduled Resample Date
ST-1-541	307-24-4	PFHxA	2/24/2025
ST-1-541	355-46-4	PFHxS	2/24/2025
ST-1-541	375-95-1	PFNA	2/24/2025
ST-1-541	335-67-1	PFOA	2/24/2025
ST-1-541	1763-23-1	PFOS	2/24/2025
ST-1-541	2706-90-3	PFPeA	2/24/2025
ST-1-541	2058-94-8	PFUnA	2/24/2025
WB-1-330	335-67-1	PFOA	2/24/2025
WW-1-452	335-76-2	PFDA	2/24/2025
WW-1-452	335-76-2	PFDA	2/24/2025
WW-1-452	375-95-1	PFNA	2/24/2025
WW-1-452	375-95-1	PFNA	2/24/2025
WW-1-452	335-67-1	PFOA	2/24/2025
WW-1-452	2058-94-8	PFUnA	2/24/2025
WW-1-452	2058-94-8	PFUnA	2/24/2025
WW-3-569	75-01-4	Vinyl Chloride	3/5/2025
PL-8-965	314-40-9	Bromacil	3/13/2025
BLM-40-517	2023695	Potassium, Total	4/8/2025
PL-1-486	2023695	Potassium, Total	4/9/2025
BLM-8-418	62-75-9	N-Nitrosodimethylamine	5/2/2025
600-C-173	16984-48-8	Fluoride, undistilled	5/9/2025
WB-1-255	7440-38-2	Arsenic, Total	5/23/2025
700-E-458	314-40-9	Bromacil	7/19/2025
ST-5-985	7440-02-0	Nickel, Total	8/2/2025
BLM-32-571	7440-38-2	Arsenic, Total	8/5/2025
BLM-32-571	7440-02-0	Nickel, Total	8/5/2025
ST-5-815	7440-02-0	Nickel, Total	8/6/2025
ST-5-1175	7440-02-0	Nickel, Total	8/7/2025
400-D-355	14797-73-0	Perchlorate	8/11/2025
ST-4-589	7440-02-0	Nickel, Total	8/16/2025
BLM-9-419	7440-02-0	Nickel, Total	9/4/2025
PL-11-470	7440-02-0	Nickel, Total	9/9/2025
PL-11-530	7440-02-0	Nickel, Total	9/9/2025
PL-11-710	7440-02-0	Nickel, Total	9/10/2025
PL-11-820	7440-02-0	Nickel, Total	9/10/2025
PL-11-980	7440-02-0	Nickel, Total	9/11/2025
PL-11-980	7439-96-5	Manganese, Total	9/11/2025
200-SG-1	57-12-5	Cyanide, Total	9/16/2025
ST-6-970	7440-50-8	Copper, Total	9/17/2025
ST-6-970	7440-02-0	Nickel, Total	9/17/2025

Well ID	CAS Number	Analyte	Scheduled Resample Date
BLM-42-569	7440-02-0	Nickel, Total	9/18/2025
BLM-42-709	7440-02-0	Nickel, Total	9/18/2025
BLM-5-527	7440-02-0	Nickel, Total	9/23/2025
400-IV-123	7440-47-3	Chromium, Total	10/9/2025
400-IV-123	7440-47-3	Chromium, Total	10/9/2025
BLM-41-670	7440-02-0	Nickel, Total	10/9/2025
400-HV-147	7440-02-0	Nickel, Total	10/14/2025
ST-7-779	7440-02-0	Nickel, Total	10/16/2025
WW-5-459	7440-02-0	Nickel, Total	10/16/2025
WW-5-579	7440-02-0	Nickel, Total	10/16/2025
WW-5-579	7782-49-2	Selenium, Total	10/16/2025
WW-5-809	7440-02-0	Nickel, Total	10/17/2025
WW-5-909	7440-02-0	Nickel, Total	10/17/2025
JER-1-483	7440-02-0	Nickel, Total	10/21/2025
JER-1-563	7440-02-0	Nickel, Total	10/21/2025
JER-1-683	7440-02-0	Nickel, Total	10/21/2025
JER-2-584	7440-02-0	Nickel, Total	10/22/2025
JER-2-684	7440-02-0	Nickel, Total	10/22/2025
BLM-17-493	7440-66-6	Zinc, Total	11/7/2025
200-I-795	62-75-9	N-Nitrosodimethylamine	11/14/2025
200-I-795	9/7/7440	Potassium, Total	11/14/2025
ST-1-541	7440-02-0	Nickel, Total	11/14/2025
ST-1-541	9/7/7440	Potassium, Total	11/14/2025
100-D-176	9/7/7440	Potassium, Total	11/15/2025
200-I-490	9/7/7440	Potassium, Total	11/15/2025
200-I-675	9/7/7440	Potassium, Total	11/15/2025
200-G-220	314-40-9	Bromacil	12/3/2025
200-G-220	75-69-4	Trichlorofluoromethane (CFC 11)	12/3/2025
BLM-6-488	84-74-2	Di-n-butyl Phthalate	1/2/2026
BLM-18-430	7440-02-0	Nickel, Total	1/17/2026
PL-6-1335	7440-02-0	Nickel, Total	1/27/2026
PL-6-915	7440-02-0	Nickel, Total	1/28/2026
100-E-261	14797-73-0	Perchlorate	6/17/2026

Table 3.4 Unconfirmed Detections Resolved This Reporting Period

Well ID	CAS Number	Analyte	Scheduled Resample Date	Resolution
BW-5-295	7440-47-3	Chromium, Total	11/21/2024	Confirmed

Table 4.1 Groundwater Monitoring Wells/Zones Analyzed for the Reporting Period

Well Name	Event Date	Well Group
100-001-GW	11/15/24	100/600
100-D-176	11/15/24	100/600
100-F-358	01/14/25	Upgradient
100-G-223	01/14/25	Upgradient
200-G-175	12/04/24	200
200-G-220	12/03/24	200
200-G-340	12/03/24	200
200-G-420	12/02/24	200
200-G-495	12/02/24	200
200-H-225	11/20/24	200
200-I-300	11/18/24	200
200-I-375	11/18/24	200
200-I-490	11/15/24	200
200-I-675	11/15/24	200
200-I-795	11/14/24	200
300-001-GSV	12/12/24	300 Area
300-002-GSV	12/16/24	300 Area
300-F-175	01/15/25	Upgradient
400-001-GW	11/19/24	400 Area
400-A-151	01/02/25	300/400
400-C-143	11/12/24	300/400
400-EV-131	12/11/24	300/400
400-FV-131	12/11/24	300/400
400-GV-125	12/11/24	300/400
400-HV-147	12/11/24	300/400
400-IV-123	12/11/24	300/400
400-JV-150	12/11/24	300/400
600A-001-GW	12/09/24	100/600
600A-002-GW-1	12/10/24	100/600
600A-004-GW	01/28/25	100/600
600C-005-GW	11/15/24	Plume Front
600-C-173	11/15/24	100/600
600-G-138	01/27/25	100/600
700-B-510	12/02/24	N. Boundary
BLM-10-517	01/03/25	Plume Front
BLM-15-305	01/13/25	Mid-plume
BLM-17-493	11/07/24	In Plume
BLM-17-550	01/13/25	In Plume
BLM-18-430	01/17/25	Mid-plume
BLM-22-570	11/14/24	Mid-plume
BLM-24-565	11/04/24	N. Boundary
BLM-2-630	11/06/24	In Plume
BLM-26-404	11/14/24	Mid-plume
BLM-27-270	12/10/24	Mid-plume
BLM-3-182	11/07/24	100/600
BLM-32-543	11/04/24	N. Boundary
BLM-32-571	11/04/24	N. Boundary
BLM-32-632	11/04/24	N. Boundary
BLM-36-350	11/08/24	Mid-plume
BLM-36-610	11/06/24	Mid-plume
BLM-36-800	11/07/24	Mid-plume
BLM-36-860	11/06/24	Mid-plume
BLM-38-480	11/13/24	Mid-plume
BLM-38-620	11/13/24	Mid-plume
BLM-42-569	12/09/24	Sentinel
BLM-42-709	12/09/24	Sentinel
BLM-6-488	01/02/25	S. Boundary
BLM-7-509	12/09/24	Plume Front
BLM-8-418	11/04/24	Mid-plume
BW-4-330	11/27/24	200
BW-5-295	11/08/24	300/400
BW-7-211	12/10/24	300/400
JER-1-483	01/14/25	N. Boundary
JER-1-563	01/14/25	N. Boundary
JER-1-683	01/14/25	N. Boundary
JER-2-504	01/15/25	N. Boundary
JER-2-584	01/15/25	N. Boundary
JER-2-684	01/15/25	N. Boundary
JP-1-424	01/06/25	Sentinel
JP-2-447	01/06/25	Sentinel
JP-3-509	01/16/25	Sentinel
JP-3-689	01/16/25	Sentinel
NASA 4	11/18/24	100/600
NASA 6	11/20/24	300/400
PL-10-484	01/17/25	Sentinel
PL-10-592	01/16/25	Sentinel
PL-11-470	12/02/24	Sentinel
PL-11-530	12/02/24	Sentinel
PL-11-710	12/03/24	Sentinel
PL-11-820	12/03/24	Sentinel
PL-11-980	12/03/24	Sentinel
PL-12-570	11/13/24	In Plume
PL-12-800	11/13/24	In Plume
PL-1-486	01/15/25	In Plume
PL-2-504	12/16/24	In Plume
PL-4-464	12/02/24	Plume Front
PL-6-1195	01/22/25	Plume Front
PL-6-1335	01/27/25	Plume Front
PL-6-725	01/30/25	Plume Front
PL-6-915	01/28/25	Plume Front
PL-7-560	11/14/24	Plume Front
PL-8-455	12/06/24	Sentinel
PL-8-605	12/06/24	Sentinel
ST-1-473	11/14/24	In Plume
ST-1-541	11/14/24	In Plume
ST-1-630	11/18/24	In Plume
ST-3-486	12/06/24	In Plume
ST-3-586	12/05/24	In Plume
ST-3-666	12/06/24	In Plume
ST-3-735	12/05/24	In Plume
ST-4-481	12/09/24	Plume Front
ST-4-589	11/05/24	Plume Front
ST-4-690	11/05/24	Plume Front
ST-5-485	11/12/24	Plume Front
ST-5-655	11/12/24	Plume Front

Well Name	Event Date	Well Group
ST-6-528	12/04/24	Plume Front
ST-6-568	12/04/24	Plume Front
ST-6-678	12/05/24	Plume Front
ST-6-824	12/05/24	Plume Front
ST-6-970	12/05/24	Plume Front
ST-7-544	01/06/25	Plume Front
ST-7-779	01/06/25	Plume Front
ST-7-970	01/06/25	Plume Front

Well Name	Event Date	Well Group
WB-1-200	11/20/24	100/600
WW-1-452	12/04/24	Plume Front
WW-2-489	12/06/24	Sentinel
WW-2-664	12/06/24	Sentinel
WW-3-469	12/05/24	Sentinel
WW-3-569	12/04/24	Sentinel
WW-4-419	11/12/24	Sentinel
WW-4-589	11/12/24	Sentinel

Well Name	Event Date	Well Group
WW-4-848	11/13/24	Sentinel
WW-4-948	11/13/24	Sentinel
WW-5-459	01/07/25	Sentinel
WW-5-579	01/07/25	Sentinel
WW-5-809	01/13/25	Sentinel
WW-5-909	01/13/25	Sentinel

Plume Front	
Well Name	**Event Date**
B650-EFF-1	11/18/24
B650-INF-1	11/18/24
B650-EFF-1	12/05/24
B650-INF-1	12/05/24
B650-EFF-1	01/07/25
B650-INF-1	01/07/25
PFE-1	01/15/25

Plume Front	
Well Name	**Event Date**
PFE-2	01/15/25
PFE-3	01/16/25
PFE-4A	01/17/25
PFE-5	01/16/25
PFE-7	01/16/25
Mid-plume	
Well Name	**Event Date**

Plume Front	
Well Name	**Event Date**
B655-EFF-2	11/18/24
B655-INF-2	11/18/24
MPE-10	11/19/24
MPE-9	11/19/24
MPE-1	11/19/24
MPE-11	11/19/24
B655-EFF-2	12/05/24

Plume Front	
Well Name	**Event Date**
B655-INF-2	12/05/24
B655-EFF-2	01/07/25
B655-INF-2	01/07/25

Table 4.2 Groundwater Elevation Data

Well Name	Total Depth (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Groundwater Elevation (ft amsl)	Measurement Date
100-001-GW	255	230	250	4648.71	1/30 - 1/31/25
100-A-182	198	182	192	4668.98	1/30 - 1/31/25
100-C-365	400	365	385	4533.21	1/30 - 1/31/25
100-D-176	201	176	196	4565.86	1/30 - 1/31/25
100-E-261	284	261	271	4683.16	1/30 - 1/31/25
100-F-358	378	358	368	4713.78	1/30 - 1/31/25
100-G-223	238	223	233	4851.71	1/30 - 1/31/25
100-HG-139	165	139	159	4646.82	1/30 - 1/31/25
200-B-240	260	240	250	4648.88	1/30 - 1/31/25
200-C(170)i	290	N/A	N/A	4681.30	2/4/2025
200-D-240	280	240	250	4662.50	1/30 - 1/31/25
200-F(370)i	590	N/A	N/A	4725.79	2/4/2025
200-G(220)i	515	N/A	N/A	4719.09	2/4/2025
200-H(331)i	458	N/A	N/A	4776.75	2/4/2025
200-I(300)i	815	N/A	N/A	4653.69	2/4/2025
200-JG-110	150	110	130	N/A	_
200-KV-150	175	150	170	4727.53	1/30 - 1/31/25
200-LV-150	175	150	170	4729.09	1/30 - 1/31/25
200-SG-1	138	123	138	4656.63	1/30 - 1/31/25
300-A-120	152	121	146	4784.54	1/30 - 1/31/25
300-A-170	182	170	175.5	4784.85	1/30 - 1/31/25
300-B-166	181	165	176	4776.64	1/30 - 1/31/25
300-C-128	160	128	154	4731.83	1/30 - 1/31/25
300-D-153	179	153	174	4950.94	1/30 - 1/31/25
300-E(138)i	395	N/A	N/A	4811.94	2/4/2025
300-F-175	195	175	185	5044.32	1/30 - 1/31/25
400-A-151	187	151	176	4637.17	1/30 - 1/31/25
400-C-143	163	143	153	4671.30	1/30 - 1/31/25
400-D(275)i	380	N/A	N/A	4660.66	2/4/2025
400-EV-131	155	131	146	4693.95	1/30 - 1/31/25
400-FV-131	154	131	146	4689.20	1/30 - 1/31/25
400-GV-125	168	125	140	4692.41	1/30 - 1/31/25
400-HV-147	173	147	162	4693.07	1/30 - 1/31/25
400-IV-123	154	123	138	4729.63	1/30 - 1/31/25
400-JV-150	175	150	165	4693.41	1/30 - 1/31/25
600C-005-GW	419	394	409	4031.77	1/30 - 1/31/25
600-C-173	199	173	193	4569.62	1/30 - 1/31/25
600-E(280)i	690	N/A	N/A	4557.43	2/4/2025

Well Name	Total Depth (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Groundwater Elevation (ft amsl)	Measurement Date
600-G-138	148	137.5	147.5	4616.26	1/30 - 1/31/25
700-A-253	269	253	263	4726.23	1/30 - 1/31/25
700-B-510	550	510	531	4344.87	1/30 - 1/31/25
700-D-186	202	186	196	4712.50	1/30 - 1/31/25
700-E-458	484	458	479	4411.61	1/30 - 1/31/25
700-H(350)i	695	N/A	N/A	4637.08	2/4/2025
700-J-200	230	200	220	4832.17	1/30 - 1/31/25
BLM-10-517	532	517	527	4040.69	1/30 - 1/31/25
BLM-13-300	316	300	310	4422.56	1/30 - 1/31/25
BLM-14-327	343	327	337	4401.07	1/30 - 1/31/25
BLM-1-435	451	435	446	4145.98	1/30 - 1/31/25
BLM-15-305	325	305	315	4424.42	1/30 - 1/31/25
BLM-17-493	519	493	513	4033.94	1/30 - 1/31/25
BLM-17-550	600	550.5	560.9	4028.42	1/30 - 1/31/25
BLM-18-430	456	430	451	4225.71	1/30 - 1/31/25
BLM-21-400	413	400	410	4313.93	1/30 - 1/31/25
BLM-22-570	597	570	592	4095.74	1/30 - 1/31/25
BLM-23-431	447	431	441	4263.74	1/30 - 1/31/25
BLM-24-565	590	565	585	4385.64	1/30 - 1/31/25
BLM-25-455	470	455	465	4284.10	1/30 - 1/31/25
BLM-2-630	498	482	493	4032.70	1/30 - 1/31/25
BLM-26-404	420	404	414	4358.05	1/30 - 1/31/25
BLM-27-270	286	270	280	4499.47	1/30 - 1/31/25
BLM-3-182	208	182	203	4569.88	1/30 - 1/31/25
BLM-31	820	N/A	N/A	4496.05	1/30 - 1/31/25
BLM-36(350)ii	905	604	614	N/A	-
BLM-38(480)ii	641	475	485	4207.05	2/4/2025
BLM-39(385)ii	595	379	389	4272.81	2/4/2025
BLM-40-517	532	517	527	4039.92	1/30 - 1/31/25
BLM-41-420	435	420	430	4317.53	1/30 - 1/31/25
BLM-42-569	802	569	579	4042.55	1/30 - 1/31/25
BLM-5-527	560	527	538	4041.35	1/30 - 1/31/25
BLM-6-488	503	488	498	4231.84	1/30 - 1/31/25
BLM-7-509	525	509	520	4038.69	1/30 - 1/31/25
BLM-8-418	434	418	428	4225.73	1/30 - 1/31/25
BLM-9-419	445	419	440	4229.40	1/30 - 1/31/25
BW-1-268	294	268	289	4607.50	1/30 - 1/31/25
BW-3-180	205	180	200	4564.24	1/30 - 1/31/25
BW-4	820	N/A	N/A	4577.88	1/30 - 1/31/25

Well Name	Total Depth (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Groundwater Elevation (ft amsl)	Measurement Date
BW-5-295	311	295	305	4582.40	1/30 - 1/31/25
BW-6-355	381	355	376	4572.91	1/30 - 1/31/25
BW-7-211	225	211	222	4610.21	1/30 - 1/31/25
JER-1-683	753	683	693	4038.04	1/30 - 1/31/25
JER-2-504	756	504	514	4046.05	1/30 - 1/31/25
JP-1-424	440	424	434	4030.13	1/30 - 1/31/25
JP-2-447	462	446	457	4031.27	1/30 - 1/31/25
JP-3-509	1,020	509	519	4031.04	1/30 - 1/31/25
MPE-2	601	400	580	4372.79	1/30 - 1/31/25
MPE-3	639	479	619	4276.33	1/30 - 1/31/25
MPE-4	639	499	619	4277.61	1/30 - 1/31/25
MPE-5	590	450	570	4142.59	1/30 - 1/31/25
MPE-6	603	383	602	4281.78	1/30 - 1/31/25
MPE-7	600	401	600	4242.69	1/30 - 1/31/25
NASA 10	135	110	130	4817.15	1/30 - 1/31/25
NASA 3	144	119	139	4888.89	1/30 - 1/31/25
NASA 4	171	146	166	4638.18	1/30 - 1/31/25
NASA 5	135	110	130	4812.39	1/30 - 1/31/25
NASA 6	153	128	148	4692.63	1/30 - 1/31/25
PFE-1-PZ	609	588	598	4023.84	1/30 - 1/31/25
PFE-3-PZ	620	590	600	4029.35	1/30 - 1/31/25
PFI-1-PZ	619	589	599	4034.62	1/30 - 1/31/25
PFI-4-PZ	600	398	600	4042.04	1/30 - 1/31/25
PL-10(484)ii	1,000	479	489	4039.15	2/4/2025
PL-11-470	1,003	470	480	4032.10	2/4/2025
PL-12-570	902	570.2	580.2	4029.95	2/4/2025
PL-1-486	502	486	496	4031.79	2/4/2025
PL-2-504	520	504	514	4028.99	2/4/2025
PL-3-453	469	453	464	4033.89	2/4/2025
PL-4-464	480	464	474	4031.06	2/4/2025
PL-6(545)i	1,920	N/A	N/A	4024.82	2/4/2025
PL-7(480)ii	655	475	485	4039.02	2/4/2025
PL-8(455)ii	1,000	448	458	4027.40	2/4/2025
ST-1-473	488	473	483	4028.06	1/30 - 1/31/25
ST-2-466	481	466	476	4029.24	1/30 - 1/31/25
ST-3-486	502	486	496	4029.20	1/30 - 1/31/25
ST-4-481	497	481	491	4032.14	1/30 - 1/31/25
ST-5-481	497	481	491	4031.99	1/30 - 1/31/25
ST-6(528)i	1,000	N/A	N/A	4030.25	2/4/2025

Well Name	Total Depth (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Groundwater Elevation (ft amsl)	Measurement Date
WB-1(200)i	359	N/A	N/A	4666.74	1/30 - 1/31/25
WB-14(520)i	545	N/A	N/A	4427.58	2/4/2025
WB-5(250)i	400	N/A	N/A	4666.80	2/4/2025
WW-1-452	468	452	462	4031.36	1/30 - 1/31/25
WW-2-589	1,030	589	599	4038.40	1/30 - 1/31/25
WW-3(469)ii	1,025	469	479	4032.37	1/30 - 1/31/25
WW-4(419)ii	1,020	419	429	4073.98	1/30 - 1/31/25
WW-5(459)ii	1,020	459	469	4035.51	1/30 - 1/31/25

i Depth to top and bottom of screen are indicated as not applicable (N/A) for multiport Westbay wells that are completed in an open borehole. The depth of the Westbay monitoring port used to calculate the piezometric surface is provided in parenthesis with the well name. Depth to water and groundwater elevation were calculated from the formation pressure at the indicated port depth.

ii The screen depths listed for retrofit multiport wells indicate the top and bottom of the screen in the outer casing of the well that corresponds to the measurement port used at that location. The depth of the monitoring port used to calculate the piezometric surface is provided in parenthesis with the well name. Depth to water and groundwater elevation for Westbay multiport monitoring wells were calculated from the formation pressure at the indicated port depth. Depth to water and groundwater elevation for FLUTe multiport monitoring wells were calculated from pressure transducer readings collected on the measurement date.

Table 5.1 PFTS and MPITS Operational Status for the Reporting Period

Month	Plume Front Treatment System			Mid-plume Treatment System		
	Days Operated	Average Flow Rate (gpm)	Groundwater Treated (acre-ft)	Days Operated	Average Flow Rate (gpm)	Groundwater Treated (acre-ft)
Nov-24	25 of 30	805	83.0	17 of 30	8.6	0.48
Dec-24	30 of 31	772	98.8	16 of 31	8.6	0.47
Jan-25	28 of 31	632	85.4	19 of 31	8.5	0.54

Table 5.2 PFTS and MPITS System Shutdowns for the Reporting Period

Shutdown Date	Restart Date	Type of Shutdown	Description
Plume Front Treatment System Shutdowns			
11/13/24	11/13/24	Planned	The system was shut down to perform scheduled maintenance of the air compressor.
12/28/24	12/30/24	Unplanned	The system shut down automatically because of a communication loss.
1/6/25	1/6/25	Unplanned	The system shut down automatically because of a communication loss.
1/12/25	1/13/25	Unplanned	The system shut down automatically because of a leak detection alarm.
1/14/25	1/14/25	Unplanned	The system shut down automatically because of a leak detection alarm.
1/19/25	1/21/25	Unplanned	The system shut down automatically because of a leak detection alarm and was left offline to dry condensate within a piping section.
1/21/25	1/22/25	Unplanned	The system shut down automatically because of a leak detection alarm and was left offline to dry condensate within a piping section.
1/24/25	1/27/25	Unplanned.	The system shut down automatically because of a communication loss.
Mid-plume Interception and Treatment System Shutdowns			
11/1/24	11/4/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/8/24	11/12/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/14/24	11/18/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/22/24	11/25/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/27/24	11/30/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
11/1/24	11/4/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/1/24	12/2/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/6/24	12/9/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/12/24	12/16/24	Planned	The system was shut down to allow aquifer levels to recover over the weekend.
12/20/24	12/30/24	Planned	The system was shut down to allow aquifer levels to recover over the long holiday break.
1/3/25	1/6/25	Planned	The system was shut down to allow aquifer levels to recover over the weekend.

Shutdown Date	Restart Date	Type of Shutdown	Description
1/8/25	1/13/25	Planned	The system was shut down to allow aquifer levels to recover over an extended weekend that included a day of mourning for President Carter.
1/17/25	1/21/25	Planned	The system was shut down to allow aquifer levels to recover over an extended weekend that included the Dr. Martin Luther King, Jr. holiday.
1/23/25	1/27/25	Planned	The system was shut down to allow aquifer levels to recover over the long holiday break.

Table 5.3 PFTS Air Stripper and UV Reactor Performance for the Reporting Period

	Analyte	Unit	Design	Nov-24	Dec-24	Jan-25
Air Stripper Influent Concentrations	TCE	µg/L	130	20	16	17
	PCE	µg/L	0.66	1	0.65	0.94
	Freon 11	µg/L	860	20	12	13
	Chloroform	µg/L	NA[1]	< 0.51[2]	< 0.51[2]	< 0.51[2]
Air Stripper Effluent Concentrations	TCE	µg/L	5.0	< 0.20[2]	< 0.20[2]	< 0.20[2]
	PCE	µg/L	5.0	< 0.21[2]	< 0.21[2]	< 0.21[2]
	Freon 11	µg/L	100	< 0.24[2]	< 0.24[2]	< 0.24[2]
	Chloroform	µg/L	NA[1]	< 0.51[2]	< 0.51[2]	< 0.51[2]
UV Reactor Influent Concentrations	NDMA[3]	ng/L	2,000	135[a]	86[b]	150[c]
UV Reactor Effluent Concentrations	NDMA	ng/L	< 2.0	0.82	0.44	0.43

J - The result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.
[1] Chloroform was not included as an analyte in the system design criteria; not applicable (NA).
[2] Analytical result for the constituent was below the method detection limit (MDL; provided).
[3] Reported NDMA concentration is corrected for extraction efficiency. Modified EPA Method 607 batch-specific laboratory control sample recovery of NDMA: 52%[a], 58%[b], 40%[c].

Table 5.4 PFTS Extraction and Injection Well Flow Rates for the Reporting Period

	Well Name	Design Flow Rate[1] (gpm)	Operational Average Flow Rate[2] (gpm)	Overall Average Flow Rate[3] (gpm)	Operational Percent of Well Design	Overall Percent of Well Design
Extraction Wells (gpm)	**PFE-1**	233	229	180	98%	77%
	PFE-2	181	144	112	79%	62%
	PFE-3	172	163	125	95%	73%
	PFE-4A	200	155	118	78%	59%
	PFE-5	5.5	3.2	2.5	58%	46%
	PFE-7	101	112	88	111%	87%
Injection Wells (gpm)	**PFI-1**	269	N/O	N/O	N/O	N/O
	PFI-2	269	289	227	107%	84%
	PFI-3	344	321	252	93%	73%
	PFI-4	194	189	148	97%	76%

[1] Revised design flow rates based on groundwater flow modeling conducted to optimize extraction well pumping rates and size submersible pumps installed for 2023 PFTS well repairs.

[2.] Operational averages are calculated using the accumulated flow volume (gallons) over the total accumulated time (minutes) when a well was in operating status. Backwashing and downtime events are not included.

[3] Overall averages are calculated using the accumulated flow volume (gallons) and time (minutes) over the entire reporting period and include backwashing and downtime events.

N/O - Not operating during reporting period.

Table 5.5 Comparison of Specific Capacities for the Plume Front Wells

Well Name	Specific Capacity at Installation	Specific Capacity Jan-24	Specific Capacity Apr-24	Specific Capacity Jul-24	Specific Capacity Jan-25
PFE-1	8.3	9.3	9.0	8.3	6.89
PFE-2	5.7	8.3	6.8	6.7	5.73
PFE-3	19.4	16.7	16.1	15.9	12.15
PFE-4A	3.1	2.1	2.0	2.0	1.58
PFE-5	0.14	0.1	<0.1	<0.1	0.06
PFE-7	6	5.8	7.0	6.0	4.89
Well Name	**Specific Capacity at Installation (Ideal Range)**	**Specific Capacity Jan-24**	**Specific Capacity Apr-24**	**Specific Capacity Jul-24**	**Specific Capacity Jan-25**
PFI-1	2.8–5	NA[1]	NA[1]	NA[1]	NA[1]
PFI-2	2.8–7	1.8	1.6	1.6	1.56
PFI-3	2–4	1.8	1.5	1.8	1.81
PFI-4	2.3–3.5	1.3	1.2	1.3	1.26

Notes:
Specific capacities are used to measure well performances and have units of gallons per minute per foot of drawdown.
NA[1] – Not Applicable due to the inoperative status of the well during the reporting period.

Table 5.6 Plume Front Mass Removal[1]

Date	TCE (kg)	Freon 11 (kg)	Chloroform(g)	PCE (g)	NDMA (g)
Feb-24	2.3	2.0	ND	59	22.4
Mar-24	2.0	1.4	ND	50	15.8
Apr-24	1.8	1.5	ND	37	12.3
May-24	1.7	1.0	ND	39	14.6
Jun-24	2.3	1.5	ND	61	23.5
Jul-24	1.8	1.5	ND	47	16.9
Aug-24	2.2	1.4	ND	65	25.3
Sep-24	2.4	1.8	ND	55	22.4
Oct-24	1.5	1	ND	32	17.8
Nov-24	2.0	2.0	ND	81	13.7
Dec-24	1.9	1.4	ND	54	10.5
Jan-25	1.8	1.3	ND	77	15.7
Total[2]	**23.7**	**17.9**	**0.0**	**656**	**210.9**

Notes:

[1] Mass removed calculated as:
(*Influent concentration - Effluent concentration) * volume of water extracted*

[2] Total mass removed during the period covered by this table.

ND – Non-Detect

Table 5.7 MPITS Air Stripper and UV Reactor Performance for the Reporting Period

	Analyte	Unit	Design Parameter	Nov-24	Dec-24	Jan-25
Air Stripper Influent Concentrations (MPE Wells)	TCE	µg/L	140	61	53	56
	PCE	µg/L	6.4	2.8	2.6	3
	Freon 11	µg/L	240	120	98	110
	Chloroform	µg/L	NA[1]	<0.51[2]	<0.51[2]	<0.51[2]
Air Stripper Influent Concentrations (Well 600-G-138)	TCE	µg/L	140	NS	NS	47
	PCE	µg/L	6.4	NS	NS	<0.21[2]
	Freon 11	µg/L	240	NS	NS	0.36
	Chloroform	µg/L	NA[1]	NS	NS	0.59
Air Stripper Effluent Concentrations	TCE	µg/L	1.0	<0.20[2]	<0.20[2]	<0.20[2]
	PCE	µg/L	1.0	<0.21[2]	<0.21[2]	<0.21[2]
	Freon 11	µg/L	50	<0.24[2]	<0.24[2]	<0.24[2]
	Chloroform	µg/L	NA[1]	<0.51[2]	<0.51[2]	<0.51[2]
UV Reactor Influent Concentrations (MPE Wells)	NDMA[3]	ng/L	25,500	3,731[a]	3,241[b]	4,450[c]
UV Reactor Influent Concentrations (Well 600-G-138)	NDMA	ng/L	25,500	NS	NS	NS
UV Reactor Effluent Concentrations[4]	NDMA	ng/L	< 2.0	0.91	0.37	0.36

Notes:

J - The result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.

NS - Not sampled during the reporting period. Well 600-G-138 is sampled annually for NDMA in accordance with the GMP (NASA, 2024d). Analytical data are provided in this table when available.

[1] Chloroform was not included in the design analyte list; not applicable (NA).

[2] Analytical result for the constituent was below the MDL (provided).

[3] Reported NDMA concentration is corrected for extraction efficiency. Modified EPA Method 607 batch-specific laboratory control sample recovery of NDMA: 52%[a], 58%[b], 40%[c].

[4] Analytical results from the low-level NDMA analytical method were below the MDL (provided). Results for Method 607 were ND.

Table 5.8 Mid-plume Mass Removal[1]

Date	TCE (g)	F11 (g)	Chloroform (g)	PCE (g)	NDMA (g)
Feb-24	30	47	ND	1.4	2.9
Mar-24	28	43	ND	1.3	2.8
Apr-24	25	36	ND	1.2	2.5
May-24	35.6	70	ND	1.6	1.9
Jun-24	27	53	ND	1.2	1.5
Jul-24	14	27	ND	0.6	0.8
Aug-24	15.6	30.7	ND	0.8	1.3
Sep-24	27.5	53.6	ND	1.3	2.2
Oct-24	34.5	68.2	ND	1.7	2.8
Nov-24	28.52	38.54	ND	1.28	2.16
Dec-24	27.83	37.47	ND	1.24	2.10
Jan-25	32.51	43.92	ND	1.46	2.47
Total[2]	**326.06**	**548.43**	**ND**	**15.08**	**25.43**

Notes:
ND – Non-Detect

[1] Mass calculation: volume of water extracted at each well * (*contaminant concentration at each well – MPITS effluent concentration*).

[2] Total mass removed during the period covered by this table.

Table 5.9 Groundwater Treatment System Operation Costs ($ / 1,000 gals)

Date	Gallons Treated[1]	ECO Labor + Materials	TEST3 Labor + Materials	L+M cost per 1,000 gal	Energy Cost[2]	Energy Cost per 1,000 gal	Total Cost	Total Cost per 1,000 gal treated
Feb-24	33,699,185	$85,568	$56,608	$4.22	$14,699	$0.44	$156,875	$4.66
Mar-24	26,585,531	$71,307	$165,932	$8.92	$11,491	$0.43	$248,730	$9.36
Apr-24	19,399,539	$71,307	$75,589	$7.57	$9,496	$0.49	$156,392	$8.06
May-24	24,443,387	$76,061	$75,849	$6.21	$9,459	$0.39	$161,369	$6.60
Jun-24	35,240,786	$70,163	$45,360	$3.28	$21,142	$0.60	$136,665	$3.88
Jul-24	26,821,773	$115,267	$49,506	$6.14	$23,023	$0.86	$187,796	$7.00
Aug-24	29,677,206	$90,209	$77,025	$5.64	$22,815	$0.77	$190,049	$6.40
Sep-24	36,171,741	$75,174	$53,068	$3.55	$24,258	$0.67	$152,500	$4.22
Oct-24	34,871,271	$75,174	$54,547	$3.72	$13,896	$0.40	$143,617	$4.12
Nov-24	16,946,859	$80,186	$74,267	$9.11	$9,395	$0.55	$163,848	$9.67
Dec-24	32,348,858	$60,139	$49,930	$3.40	$13,134	$0.41	$123,202	$3.81
Jan-25	27,991,577	$115,267	$60,750	$6.29	$13,341	$0.48	$189,358	$6.76
12-Month Total	**316,206,135**	**$870,555**	**$777,681**	**$5.21**	**$172,807**	**$0.55**	**$1,821,043**	**$5.76**

Notes:
1) Gallons treated reflect amount of water extracted during power reporting period.
2) Months May through September include Peak Demand Rates.

Table 6.1 Status of Wells with Sampling Issues

Well	Date of Discovery	Description	Scheduled for Sampling this Qtr? / Next Sampling Date per GMP	Description of Future Plan or Resolution
New Occurrences this Quarter				
None				
Unresolved Issues				
BLM-1-435	Apr-20	Sampling failed, as there was not enough water in the screen to fill the sample bottles. Failed again, in April 2021 and October 2021.	NA	The well does not provide sufficient water for representative sampling and will be abandoned and replaced. NMED approved the work plan for the replacement well (NMED, 2023d) with modifications that NASA addressed.
PL-3-453	Dec-20	Unable to collect groundwater sample because the water level in the well was insufficient for sampling. Insufficient recharge.	NA	The well does not provide sufficient water for representative sampling and will be abandoned and replaced. NMED approved the work plan for the replacement well (NMED, 2023e).
Issues Resolved this Quarter (will not appear in future Periodic Monitoring Reports)				
None				

Appendix A
Indicator Parameters and Analytical Data

Appendix A.1: Monitor Well Indicator Parameters
Appendix A.2: Monitor Well Analytical Data
Appendix A.3: PFTS Indicator Parameters
Appendix A.4: PFTS Analytical Data
Appendix A.5: MPITS Indicator Parameters
Appendix A.6: MPITS Analytical Data

Appendix A.1
Monitor Well Indicator Parameters

Summary of Water Quality Parameters
for the Sampling Events in this Reporting Period

Well ID **100-001-GW** **Event Date** **11/15/2024**

Sample	Parameter	Result	Units
2411150755A	Atmospheric Pressure		psia
2411150755A	Conductivity	701.93	µS/cm
2411150755A	DTW		ft
2411150755A	Formation Pressure		psia
2411150755A	pH	8.68	NA
2411150755A	Temperature	20.14	ºC
2411150755A	Turbidity	1.08	NTU
2411150756A	Atmospheric Pressure		psia
2411150756A	Conductivity	700.81	µS/cm
2411150756A	DTW		ft
2411150756A	Formation Pressure		psia
2411150756A	pH	8.68	NA
2411150756A	Temperature	20.09	ºC
2411150756A	Turbidity	1.14	NTU
2411150757A	Atmospheric Pressure		psia
2411150757A	Conductivity	699.31	µS/cm
2411150757A	DTW		ft
2411150757A	Formation Pressure		psia
2411150757A	pH	8.68	NA
2411150757A	Temperature	20.17	ºC
2411150757A	Turbidity	1.10	NTU

Well ID	100-D-176	Event Date	11/15/2024	
Sample	**Parameter**		**Result**	**Units**
2411150730C	Atmospheric Pressure			psia
2411150730C	Conductivity		441.3	µS/cm
2411150730C	DTW		187	ft
2411150730C	Formation Pressure			psia
2411150730C	pH		7.63	NA
2411150730C	Temperature		18.88	ºC
2411150730C	Turbidity		1.75	NTU
2411150735C	Atmospheric Pressure			psia
2411150735C	Conductivity		443.2	µS/cm
2411150735C	DTW			ft
2411150735C	Formation Pressure			psia
2411150735C	pH		7.66	NA
2411150735C	Temperature		18.76	ºC
2411150735C	Turbidity		1.22	NTU
2411150740C	Atmospheric Pressure			psia
2411150740C	Conductivity		445.2	µS/cm
2411150740C	DTW			ft
2411150740C	Formation Pressure			psia
2411150740C	pH		7.71	NA
2411150740C	Temperature		18.61	ºC
2411150740C	Turbidity		1.2	NTU

Well ID	100-F-358	Event Date	1/14/2025	
Sample	**Parameter**		**Result**	**Units**
2501140945C	Atmospheric Pressure			psia
2501140945C	Conductivity		1316.4	µS/cm
2501140945C	DTW		318.77	ft
2501140945C	Formation Pressure			psia
2501140945C	pH		7.22	NA
2501140945C	Temperature		28.86	ºC
2501140945C	Turbidity		0.53	NTU
2501140948C	Atmospheric Pressure			psia
2501140948C	Conductivity		1314	µS/cm
2501140948C	DTW			ft
2501140948C	Formation Pressure			psia
2501140948C	pH		7.24	NA
2501140948C	Temperature		23.92	ºC
2501140948C	Turbidity		0.51	NTU
2501140951C	Atmospheric Pressure			psia
2501140951C	Conductivity		1312.4	µS/cm
2501140951C	DTW			ft
2501140951C	Formation Pressure			psia
2501140951C	pH		7.24	NA
2501140951C	Temperature		23.93	ºC
2501140951C	Turbidity		0.43	NTU

Well ID	100-G-223	Event Date	1/14/2025	
Sample	**Parameter**		**Result**	**Units**
2501141405C	Atmospheric Pressure			psia
2501141405C	Conductivity		1047.9	µS/cm
2501141405C	DTW		79.12	ft
2501141405C	Formation Pressure			psia
2501141405C	pH		7.3	NA
2501141405C	Temperature		20.27	ºC
2501141405C	Turbidity		0.25	NTU
2501141408C	Atmospheric Pressure			psia
2501141408C	Conductivity		1049.3	µS/cm
2501141408C	DTW			ft
2501141408C	Formation Pressure			psia
2501141408C	pH		7.32	NA
2501141408C	Temperature		20.23	ºC
2501141408C	Turbidity		0.22	NTU
2501141411C	Atmospheric Pressure			psia
2501141411C	Conductivity		1052	µS/cm
2501141411C	DTW			ft
2501141411C	Formation Pressure			psia
2501141411C	pH		7.33	NA
2501141411C	Temperature		20.28	ºC
2501141411C	Turbidity		0.32	NTU

Well ID	200-G-175	Event Date	12/4/2024	
Sample	**Parameter**		**Result**	**Units**
2412040940Y	Atmospheric Pressure		12.42	psia
2412040940Y	Conductivity		1035	µS/cm
2412040940Y	DTW		219.19	ft
2412040940Y	Formation Pressure			psia
2412040940Y	pH		8.92	NA
2412040940Y	Temperature		21.1	ºC
2412040940Y	Turbidity		5.85	NTU
2412041050Y	Atmospheric Pressure		12.41	psia
2412041050Y	Conductivity		1026	µS/cm
2412041050Y	DTW		219.21	ft
2412041050Y	Formation Pressure			psia
2412041050Y	pH		8.84	NA
2412041050Y	Temperature		20.9	ºC
2412041050Y	Turbidity		3.18	NTU

Well ID	200-G-220	Event Date	12/3/2024	
Sample	**Parameter**		**Result**	**Units**
2412031335Y	Atmospheric Pressure		12.39	psia
2412031335Y	Conductivity		1211	µS/cm
2412031335Y	DTW		219.11	ft
2412031335Y	Formation Pressure			psia
2412031335Y	pH		8.93	NA
2412031335Y	Temperature		20.3	ºC
2412031335Y	Turbidity		1.78	NTU
2412031446Y	Atmospheric Pressure		12.4	psia
2412031446Y	Conductivity		1221	µS/cm
2412031446Y	DTW		219.19	ft
2412031446Y	Formation Pressure			psia
2412031446Y	pH		8.99	NA
2412031446Y	Temperature		20.2	ºC
2412031446Y	Turbidity		1.54	NTU

Well ID	200-G-340	Event Date	12/3/2024	
Sample	**Parameter**		**Result**	**Units**
2412030950Y	Atmospheric Pressure		12.39	psia
2412030950Y	Conductivity		1555	µS/cm
2412030950Y	DTW		219.03	ft
2412030950Y	Formation Pressure			psia
2412030950Y	pH		8.86	NA
2412030950Y	Temperature		20.3	ºC
2412030950Y	Turbidity		1.09	NTU
2412031049Y	Atmospheric Pressure		12.41	psia
2412031049Y	Conductivity		1559	µS/cm
2412031049Y	DTW		219.11	ft
2412031049Y	Formation Pressure			psia
2412031049Y	pH		8.93	NA
2412031049Y	Temperature		20.7	ºC
2412031049Y	Turbidity		1.03	NTU

Well ID 200-G-420 **Event Date** 12/2/2024

Sample	Parameter	Result	Units
2412021405Y	Atmospheric Pressure	12.38	psia
2412021405Y	Conductivity	2.04	µS/cm
2412021405Y	DTW	218.89	ft
2412021405Y	Formation Pressure		psia
2412021405Y	pH	8.9	NA
2412021405Y	Temperature	22.4	ºC
2412021405Y	Turbidity	0.69	NTU
2412021455Y	Atmospheric Pressure	12.38	psia
2412021455Y	Conductivity	2.03	µS/cm
2412021455Y	DTW	219.03	ft
2412021455Y	Formation Pressure		psia
2412021455Y	pH	8.8	NA
2412021455Y	Temperature	22.3	ºC
2412021455Y	Turbidity	0.6	NTU

Well ID 200-G-495 **Event Date** 12/2/2024

Sample	Parameter	Result	Units
2412021015Y	Atmospheric Pressure	12.37	psia
2412021015Y	Conductivity	2.04	µS/cm
2412021015Y	DTW	218.8	ft
2412021015Y	Formation Pressure		psia
2412021015Y	pH	9.56	NA
2412021015Y	Temperature	22.2	ºC
2412021015Y	Turbidity	1.1	NTU
2412021055Y	Atmospheric Pressure	12.4	psia
2412021055Y	Conductivity	2.06	µS/cm
2412021055Y	DTW	218.99	ft
2412021055Y	Formation Pressure		psia
2412021055Y	pH	9.41	NA
2412021055Y	Temperature	22.8	ºC
2412021055Y	Turbidity	0.9	NTU

Well ID **200-H-225** **Event Date** **11/20/2024**

Sample	Parameter	Result	Units
2411200910Y	Atmospheric Pressure	12.46	psia
2411200910Y	Conductivity	1084	µS/cm
2411200910Y	DTW	48.43	ft
2411200910Y	Formation Pressure		psia
2411200910Y	pH	7.29	NA
2411200910Y	Temperature	18.5	ºC
2411200910Y	Turbidity	1.71	NTU
2411200955Y	Atmospheric Pressure	12.49	psia
2411200955Y	Conductivity	1186	µS/cm
2411200955Y	DTW	43.9	ft
2411200955Y	Formation Pressure		psia
2411200955Y	pH	7.22	NA
2411200955Y	Temperature	18.9	ºC
2411200955Y	Turbidity	1.12	NTU

Well ID **200-I-300** **Event Date** **11/18/2024**

Sample	Parameter	Result	Units
2411181250Y	Atmospheric Pressure	12.36	psia
2411181250Y	Conductivity	806	µS/cm
2411181250Y	DTW	222.9	ft
2411181250Y	Formation Pressure		psia
2411181250Y	pH	7.25	NA
2411181250Y	Temperature	20.2	ºC
2411181250Y	Turbidity	1.31	NTU
2411181350Y	Atmospheric Pressure	12.33	psia
2411181350Y	Conductivity	810	µS/cm
2411181350Y	DTW		ft
2411181350Y	Formation Pressure		psia
2411181350Y	pH	7.61	NA
2411181350Y	Temperature	20.1	ºC
2411181350Y	Turbidity	0.98	NTU

Well ID	200-I-375	Event Date	11/18/2024	
Sample	**Parameter**		**Result**	**Units**
2411180920Y	Atmospheric Pressure		12.34	psia
2411180920Y	Conductivity		941	µS/cm
2411180920Y	DTW		222.22	ft
2411180920Y	Formation Pressure			psia
2411180920Y	pH		7.35	NA
2411180920Y	Temperature		19.7	ºC
2411180920Y	Turbidity		1.26	NTU
2411181020Y	Atmospheric Pressure		12.28	psia
2411181020Y	Conductivity		1029	µS/cm
2411181020Y	DTW			ft
2411181020Y	Formation Pressure			psia
2411181020Y	pH		7.17	NA
2411181020Y	Temperature		19.2	ºC
2411181020Y	Turbidity		1.13	NTU

Well ID	200-I-490	Event Date	11/15/2024	
Sample	**Parameter**		**Result**	**Units**
2411151100Y	Atmospheric Pressure		12.3	psia
2411151100Y	Conductivity		990	µS/cm
2411151100Y	DTW		221.02	ft
2411151100Y	Formation Pressure			psia
2411151100Y	pH		7.85	NA
2411151100Y	Temperature		21.2	ºC
2411151100Y	Turbidity		1.51	NTU
2411151220Y	Atmospheric Pressure		12.34	psia
2411151220Y	Conductivity		1054	µS/cm
2411151220Y	DTW			ft
2411151220Y	Formation Pressure			psia
2411151220Y	pH		7.66	NA
2411151220Y	Temperature		21.5	ºC
2411151220Y	Turbidity		1.31	NTU

Well ID	200-I-675	Event Date	11/15/2024	
Sample	**Parameter**		**Result**	**Units**
2411150900Y	Atmospheric Pressure		21.31	psia
2411150900Y	Conductivity		1548	µS/cm
2411150900Y	DTW		220.95	ft
2411150900Y	Formation Pressure			psia
2411150900Y	pH		7.38	NA
2411150900Y	Temperature		20.5	ºC
2411150900Y	Turbidity		2.23	NTU
2411150958Y	Atmospheric Pressure		12.33	psia
2411150958Y	Conductivity		1720	µS/cm
2411150958Y	DTW		221.02	ft
2411150958Y	Formation Pressure			psia
2411150958Y	pH		7.53	NA
2411150958Y	Temperature		20.2	ºC
2411150958Y	Turbidity		1.63	NTU

Well ID	200-I-795	Event Date	11/14/2024	
Sample	**Parameter**		**Result**	**Units**
2411141500Y	Atmospheric Pressure		12.35	psia
2411141500Y	Conductivity		1954	µS/cm
2411141500Y	DTW		220.9	ft
2411141500Y	Formation Pressure			psia
2411141500Y	pH		7.54	NA
2411141500Y	Temperature		20.6	ºC
2411141500Y	Turbidity		2.82	NTU
2411150735Y	Atmospheric Pressure		12.32	psia
2411150735Y	Conductivity		2.05	µS/cm
2411150735Y	DTW		220.95	ft
2411150735Y	Formation Pressure			psia
2411150735Y	pH		7.04	NA
2411150735Y	Temperature		20.7	ºC
2411150735Y	Turbidity		2.29	NTU

Well ID	300-001-GSV	Event Date	12/12/2024	
Sample	**Parameter**		**Result**	**Units**
2412121330C	Atmospheric Pressure			psia
2412121330C	Conductivity		1524	µS/cm
2412121330C	DTW			ft
2412121330C	Formation Pressure			psia
2412121330C	pH		7.75	NA
2412121330C	Temperature		18.1	ºC
2412121330C	Turbidity		3.97	NTU

Well ID	300-002-GSV	Event Date	12/16/2024	
Sample	**Parameter**		**Result**	**Units**
2412161030C	Atmospheric Pressure			psia
2412161030C	Conductivity		1189	µS/cm
2412161030C	DTW			ft
2412161030C	Formation Pressure			psia
2412161030C	pH		7.33	NA
2412161030C	Temperature		21	ºC
2412161030C	Turbidity		4.34	NTU
2412161340C	Atmospheric Pressure			psia
2412161340C	Conductivity		1068	µS/cm
2412161340C	DTW			ft
2412161340C	Formation Pressure			psia
2412161340C	pH		7.58	NA
2412161340C	Temperature		21.2	ºC
2412161340C	Turbidity		4.54	NTU
2412161359C	Atmospheric Pressure			psia
2412161359C	Conductivity		1074	µS/cm
2412161359C	DTW			ft
2412161359C	Formation Pressure			psia
2412161359C	pH		7.67	NA
2412161359C	Temperature		21.8	ºC
2412161359C	Turbidity		4.67	NTU

Well ID 300-F-175	Event Date 1/15/2025		
Sample	**Parameter**	**Result**	**Units**
2501150910C	Atmospheric Pressure		psia
2501150910C	Conductivity	1022	µS/cm
2501150910C	DTW		ft
2501150910C	Formation Pressure		psia
2501150910C	pH	8.19	NA
2501150910C	Temperature	16.32	ºC
2501150910C	Turbidity	0.65	NTU
2501150911C	Atmospheric Pressure		psia
2501150911C	Conductivity	1022.8	µS/cm
2501150911C	DTW		ft
2501150911C	Formation Pressure		psia
2501150911C	pH	8.18	NA
2501150911C	Temperature	16.32	ºC
2501150911C	Turbidity	0.78	NTU
2501150912C	Atmospheric Pressure		psia
2501150912C	Conductivity	1024.9	µS/cm
2501150912C	DTW		ft
2501150912C	Formation Pressure		psia
2501150912C	pH	8.17	NA
2501150912C	Temperature	16.32	ºC
2501150912C	Turbidity	0.85	NTU

Well ID 400-001-GW	Event Date 11/19/2024		
Sample	**Parameter**	**Result**	**Units**
2411191340A	Atmospheric Pressure		psia
2411191340A	Conductivity	1258	µS/cm
2411191340A	DTW		ft
2411191340A	Formation Pressure		psia
2411191340A	pH	8.12	NA
2411191340A	Temperature	20.8	ºC
2411191340A	Turbidity	9.69	NTU
2411191353A	Atmospheric Pressure		psia
2411191353A	Conductivity	1249	µS/cm
2411191353A	DTW		ft
2411191353A	Formation Pressure		psia
2411191353A	pH	8.11	NA
2411191353A	Temperature	20.6	ºC
2411191353A	Turbidity	9.68	NTU

Well ID	400-A-151	Event Date	1/2/2025	
Sample	**Parameter**		**Result**	**Units**
2501021350A	Atmospheric Pressure			psia
2501021350A	Conductivity		1238.9	µS/cm
2501021350A	DTW			ft
2501021350A	Formation Pressure			psia
2501021350A	pH		7.32	NA
2501021350A	Temperature		24.92	ºC
2501021350A	Turbidity		1.79	NTU
2501021353A	Atmospheric Pressure			psia
2501021353A	Conductivity		1236.4	µS/cm
2501021353A	DTW			ft
2501021353A	Formation Pressure			psia
2501021353A	pH		7.3	NA
2501021353A	Temperature		25.02	ºC
2501021353A	Turbidity		1.51	NTU
2501021356A	Atmospheric Pressure			psia
2501021356A	Conductivity		1233.9	µS/cm
2501021356A	DTW			ft
2501021356A	Formation Pressure			psia
2501021356A	pH		7.3	NA
2501021356A	Temperature		25.13	ºC
2501021356A	Turbidity		1.38	NTU

Well ID	400-C-143	Event Date	11/12/2024	
Sample	**Parameter**		**Result**	**Units**
2411120925A	Atmospheric Pressure			psia
2411120925A	Conductivity		1262.3	µS/cm
2411120925A	DTW			ft
2411120925A	Formation Pressure			psia
2411120925A	pH		7.38	NA
2411120925A	Temperature		20.85	ºC
2411120925A	Turbidity		0.59	NTU
2411120926A	Atmospheric Pressure			psia
2411120926A	Conductivity		1262.3	µS/cm
2411120926A	DTW			ft
2411120926A	Formation Pressure			psia
2411120926A	pH		7.41	NA
2411120926A	Temperature		20.86	ºC
2411120926A	Turbidity		0.61	NTU
2411120927A	Atmospheric Pressure			psia
2411120927A	Conductivity		1262.3	µS/cm
2411120927A	DTW			ft
2411120927A	Formation Pressure			psia
2411120927A	pH		7.38	NA
2411120927A	Temperature		20.86	ºC
2411120927A	Turbidity		0.61	NTU

Well ID	400-EV-131	Event Date	12/11/2024	
Sample	**Parameter**		**Result**	**Units**
2412110940A	Atmospheric Pressure			psia
2412110940A	Conductivity		1299.1	µS/cm
2412110940A	DTW			ft
2412110940A	Formation Pressure			psia
2412110940A	pH		7.01	NA
2412110940A	Temperature		18.26	ºC
2412110940A	Turbidity		0.43	NTU
2412110941A	Atmospheric Pressure			psia
2412110941A	Conductivity		1301	µS/cm
2412110941A	DTW			ft
2412110941A	Formation Pressure			psia
2412110941A	pH		7.01	NA
2412110941A	Temperature		18.48	ºC
2412110941A	Turbidity		0.76	NTU
2412110942A	Atmospheric Pressure			psia
2412110942A	Conductivity		1310.8	µS/cm
2412110942A	DTW			ft
2412110942A	Formation Pressure			psia
2412110942A	pH		7.01	NA
2412110942A	Temperature		18.3	ºC
2412110942A	Turbidity		0.8	NTU

Well ID	400-FV-131	Event Date	12/11/2024	
Sample	**Parameter**		**Result**	**Units**
2412110930C	Atmospheric Pressure			psia
2412110930C	Conductivity		1161	µS/cm
2412110930C	DTW			ft
2412110930C	Formation Pressure			psia
2412110930C	pH		7.2	NA
2412110930C	Temperature		18.74	ºC
2412110930C	Turbidity		2.06	NTU
2412110932C	Atmospheric Pressure			psia
2412110932C	Conductivity		1159	µS/cm
2412110932C	DTW			ft
2412110932C	Formation Pressure			psia
2412110932C	pH		7.17	NA
2412110932C	Temperature		18.73	ºC
2412110932C	Turbidity		1.88	NTU
2412110933C	Atmospheric Pressure			psia
2412110933C	Conductivity		1161	µS/cm
2412110933C	DTW			ft
2412110933C	Formation Pressure			psia
2412110933C	pH		7.18	NA
2412110933C	Temperature		18.73	ºC
2412110933C	Turbidity		1.6	NTU

Well ID	400-GV-125	Event Date	12/11/2024	
Sample	**Parameter**		**Result**	**Units**
2412111100C	Atmospheric Pressure			psia
2412111100C	Conductivity		1264	µS/cm
2412111100C	DTW			ft
2412111100C	Formation Pressure			psia
2412111100C	pH		7.21	NA
2412111100C	Temperature		19.21	ºC
2412111100C	Turbidity		1.8	NTU
2412111102C	Atmospheric Pressure			psia
2412111102C	Conductivity		1264	µS/cm
2412111102C	DTW			ft
2412111102C	Formation Pressure			psia
2412111102C	pH		7.18	NA
2412111102C	Temperature		19.2	ºC
2412111102C	Turbidity		1.18	NTU
2412111104C	Atmospheric Pressure			psia
2412111104C	Conductivity		1264	µS/cm
2412111104C	DTW			ft
2412111104C	Formation Pressure			psia
2412111104C	pH		7.22	NA
2412111104C	Temperature		19.21	ºC
2412111104C	Turbidity		1.18	NTU

Well ID	400-HV-147	Event Date	12/11/2024	
Sample	**Parameter**		**Result**	**Units**
2412111025A	Atmospheric Pressure			psia
2412111025A	Conductivity		2049.5	µS/cm
2412111025A	DTW			ft
2412111025A	Formation Pressure			psia
2412111025A	pH		7.42	NA
2412111025A	Temperature		20.31	ºC
2412111025A	Turbidity		0.85	NTU
2412111026A	Atmospheric Pressure			psia
2412111026A	Conductivity		158.7	µS/cm
2412111026A	DTW			ft
2412111026A	Formation Pressure			psia
2412111026A	pH		7.4	NA
2412111026A	Temperature		20.29	ºC
2412111026A	Turbidity		0.43	NTU
2412111027A	Atmospheric Pressure			psia
2412111027A	Conductivity		2048.9	µS/cm
2412111027A	DTW			ft
2412111027A	Formation Pressure			psia
2412111027A	pH		7.41	NA
2412111027A	Temperature		20.32	ºC
2412111027A	Turbidity		0.56	NTU

Well ID	400-IV-123	Event Date	12/11/2024	
Sample	**Parameter**		**Result**	**Units**
2412111345A	Atmospheric Pressure			psia
2412111345A	Conductivity		372.84	µS/cm
2412111345A	DTW			ft
2412111345A	Formation Pressure			psia
2412111345A	pH		9.09	NA
2412111345A	Temperature		20.33	ºC
2412111345A	Turbidity		0.5	NTU
2412111346A	Atmospheric Pressure			psia
2412111346A	Conductivity		372.91	µS/cm
2412111346A	DTW			ft
2412111346A	Formation Pressure			psia
2412111346A	pH		9.08	NA
2412111346A	Temperature		20.34	ºC
2412111346A	Turbidity		0.55	NTU
2412111347A	Atmospheric Pressure			psia
2412111347A	Conductivity		372.8	µS/cm
2412111347A	DTW			ft
2412111347A	Formation Pressure			psia
2412111347A	pH		9.09	NA
2412111347A	Temperature		20.34	ºC
2412111347A	Turbidity		0.43	NTU

Well ID	400-JV-150	Event Date	12/11/2024	
Sample	**Parameter**		**Result**	**Units**
2412111230C	Atmospheric Pressure			psia
2412111230C	Conductivity		2.18	µS/cm
2412111230C	DTW			ft
2412111230C	Formation Pressure			psia
2412111230C	pH		7.24	NA
2412111230C	Temperature		18.23	ºC
2412111230C	Turbidity		3.99	NTU
2412111232C	Atmospheric Pressure			psia
2412111232C	Atmospheric Pressure			psia
2412111232C	Conductivity		2.23	µS/cm
2412111232C	Conductivity			µS/cm
2412111232C	DTW			ft
2412111232C	DTW			ft
2412111232C	Formation Pressure			psia
2412111232C	Formation Pressure			psia
2412111232C	pH		7.19	NA
2412111232C	pH			NA
2412111232C	Temperature			ºC
2412111232C	Temperature		18.24	ºC
2412111232C	Turbidity		3.29	NTU
2412111232C	Turbidity			NTU
2412111233C	Atmospheric Pressure			psia
2412111233C	Conductivity		2.19	µS/cm
2412111233C	DTW			ft
2412111233C	Formation Pressure			psia
2412111233C	pH		7.21	NA
2412111233C	Temperature		18.24	ºC
2412111233C	Turbidity		3.19	NTU

Well ID	600A-001-GW-1	Event Date	12/9/2024	
Sample	**Parameter**		**Result**	**Units**
2412090955B	Atmospheric Pressure			psia
2412090955B	Conductivity		1501	µS/cm
2412090955B	DTW		151.6	ft
2412090955B	Formation Pressure			psia
2412090955B	pH		7.85	NA
2412090955B	Temperature		18.9	ºC
2412090955B	Turbidity		185	NTU
2412091009B	Atmospheric Pressure			psia
2412091009B	Conductivity		1512	µS/cm
2412091009B	DTW			ft
2412091009B	Formation Pressure			psia
2412091009B	pH		7.96	NA
2412091009B	Temperature		18.6	ºC
2412091009B	Turbidity		156.4	NTU

Well ID 600A-002-GW-1 **Event Date** 12/10/2024

Sample	Parameter	Result	Units
2412101313C	Atmospheric Pressure		psia
2412101313C	Conductivity	1206	µS/cm
2412101313C	DTW		ft
2412101313C	Formation Pressure		psia
2412101313C	pH	7.61	NA
2412101313C	Temperature	19.3	ºC
2412101313C	Turbidity	1.23	NTU
2412101320C	Atmospheric Pressure		psia
2412101320C	Conductivity	1209	µS/cm
2412101320C	DTW		ft
2412101320C	Formation Pressure		psia
2412101320C	pH	7.58	NA
2412101320C	Temperature	19.4	ºC
2412101320C	Turbidity	1.18	NTU
2412101350C	Atmospheric Pressure		psia
2412101350C	Conductivity	1211	µS/cm
2412101350C	DTW		ft
2412101350C	Formation Pressure		psia
2412101350C	pH	7.62	NA
2412101350C	Temperature	19.4	ºC
2412101350C	Turbidity	1.21	NTU

Well ID 600A-004-GW **Event Date** 1/28/2025

Sample	Parameter	Result	Units
2501280945C	Atmospheric Pressure		psia
2501280945C	Conductivity	2.23	µS/cm
2501280945C	DTW	186.2	ft
2501280945C	Formation Pressure		psia
2501280945C	pH	8.36	NA
2501280945C	Temperature	19.2	ºC
2501280945C	Turbidity	5.55	NTU

Well ID **600C-005-GW** **Event Date** **11/15/2024**

Sample	Parameter	Result	Units
2411151025A	Atmospheric Pressure		psia
2411151025A	Conductivity	801.24	µS/cm
2411151025A	DTW		ft
2411151025A	Formation Pressure		psia
2411151025A	pH	7.6	NA
2411151025A	Temperature	20.83	ºC
2411151025A	Turbidity	5.27	NTU
2411151026A	Atmospheric Pressure		psia
2411151026A	Conductivity	800.64	µS/cm
2411151026A	DTW		ft
2411151026A	Formation Pressure		psia
2411151026A	pH	7.6	NA
2411151026A	Temperature	20.75	ºC
2411151026A	Turbidity	4.49	NTU
2411151027A	Atmospheric Pressure		psia
2411151027A	Conductivity	802.87	µS/cm
2411151027A	DTW		ft
2411151027A	Formation Pressure		psia
2411151027A	pH	7.6	NA
2411151027A	Temperature	20.89	ºC
2411151027A	Turbidity	3.27	NTU

Well ID **600-G-138** **Event Date** **1/27/2025**

Sample	Parameter	Result	Units
2501270955A	Atmospheric Pressure		psia
2501270955A	Conductivity	1840	µS/cm
2501270955A	DTW	145.1	ft
2501270955A	Formation Pressure		psia
2501270955A	pH	8.87	NA
2501270955A	Temperature	11.8	ºC
2501270955A	Turbidity		NTU

Well ID	700-B-510	Event Date	12/2/2024	
Sample	**Parameter**		**Result**	**Units**
2412020930C	Atmospheric Pressure			psia
2412020930C	Conductivity		227	µS/cm
2412020930C	DTW			ft
2412020930C	Formation Pressure			psia
2412020930C	pH		8.85	NA
2412020930C	Temperature		22.24	ºC
2412020930C	Turbidity		0.12	NTU
2412020932C	Atmospheric Pressure			psia
2412020932C	Conductivity		556	µS/cm
2412020932C	DTW			ft
2412020932C	Formation Pressure			psia
2412020932C	pH		8.81	NA
2412020932C	Temperature		22.23	ºC
2412020932C	Turbidity		0.59	NTU
2412020934C	Atmospheric Pressure			psia
2412020934C	Conductivity		557	µS/cm
2412020934C	DTW			ft
2412020934C	Formation Pressure			psia
2412020934C	pH		8.8	NA
2412020934C	Temperature		22.23	ºC
2412020934C	Turbidity		0.61	NTU

Well ID	BLM-10-517	Event Date	1/3/2025	
Sample	**Parameter**		**Result**	**Units**
2501030945A	Atmospheric Pressure			psia
2501030945A	Conductivity		966.7	µS/cm
2501030945A	DTW		498.56	ft
2501030945A	Formation Pressure			psia
2501030945A	pH		7.36	NA
2501030945A	Temperature		19.93	ºC
2501030945A	Turbidity		1.09	NTU
2501030948A	Atmospheric Pressure			psia
2501030948A	Conductivity		952.2	µS/cm
2501030948A	DTW			ft
2501030948A	Formation Pressure			psia
2501030948A	pH		7.36	NA
2501030948A	Temperature		19.94	ºC
2501030948A	Turbidity		0.98	NTU
2501030951A	Atmospheric Pressure			psia
2501030951A	Conductivity		962.8	µS/cm
2501030951A	DTW			ft
2501030951A	Formation Pressure			psia
2501030951A	pH		7.35	NA
2501030951A	Temperature		19.99	ºC
2501030951A	Turbidity		0.92	NTU

Well ID	BLM-15-305	Event Date	1/13/2025	
Sample	**Parameter**		**Result**	**Units**
2501131350C	Atmospheric Pressure			psia
2501131350C	Conductivity		1125.8	µS/cm
2501131350C	DTW			ft
2501131350C	Formation Pressure			psia
2501131350C	pH		7.61	NA
2501131350C	Temperature		21.48	ºC
2501131350C	Turbidity		2.58	NTU
2501131351C	Atmospheric Pressure			psia
2501131351C	Conductivity		1131.7	µS/cm
2501131351C	DTW			ft
2501131351C	Formation Pressure			psia
2501131351C	pH		7.61	NA
2501131351C	Temperature		21.49	ºC
2501131351C	Turbidity		2.43	NTU
2501131352C	Atmospheric Pressure			psia
2501131352C	Conductivity		1127.8	µS/cm
2501131352C	DTW			ft
2501131352C	Formation Pressure			psia
2501131352C	pH		7.61	NA
2501131352C	Temperature		21.48	ºC
2501131352C	Turbidity		2.45	NTU

Well ID	BLM-17-493	Event Date	11/7/2024	
Sample	**Parameter**		**Result**	**Units**
2411070930A	Atmospheric Pressure			psia
2411070930A	Conductivity		1025	µS/cm
2411070930A	DTW			ft
2411070930A	Formation Pressure			psia
2411070930A	pH		7.62	NA
2411070930A	Temperature		19.07	ºC
2411070930A	Turbidity		62.2	NTU
2411070932A	Atmospheric Pressure			psia
2411070932A	Conductivity		1026	µS/cm
2411070932A	DTW			ft
2411070932A	Formation Pressure			psia
2411070932A	pH		7.58	NA
2411070932A	Temperature		19.08	ºC
2411070932A	Turbidity		62.1	NTU
2411070934A	Atmospheric Pressure			psia
2411070934A	Conductivity		1025	µS/cm
2411070934A	DTW			ft
2411070934A	Formation Pressure			psia
2411070934A	pH		7.6	NA
2411070934A	Temperature		19.08	ºC
2411070934A	Turbidity		62.1	NTU

Well ID	BLM-17-550	Event Date	1/13/2025	
Sample	**Parameter**		**Result**	**Units**
2501131020C	Atmospheric Pressure			psia
2501131020C	Conductivity		1061.6	µS/cm
2501131020C	DTW			ft
2501131020C	Formation Pressure			psia
2501131020C	pH		7.38	NA
2501131020C	Temperature		19.49	ºC
2501131020C	Turbidity		0.86	NTU
2501131021C	Atmospheric Pressure			psia
2501131021C	Conductivity		1061.5	µS/cm
2501131021C	DTW			ft
2501131021C	Formation Pressure			psia
2501131021C	pH		7.38	NA
2501131021C	Temperature		19.45	ºC
2501131021C	Turbidity		0.91	NTU
2501131022C	Atmospheric Pressure			psia
2501131022C	Conductivity		1061.6	µS/cm
2501131022C	DTW			ft
2501131022C	Formation Pressure			psia
2501131022C	pH		7.38	NA
2501131022C	Temperature		19.43	ºC
2501131022C	Turbidity		0.93	NTU

Well ID	BLM-18-430	Event Date	1/17/2025	
Sample	**Parameter**		**Result**	**Units**
2501170925B	Atmospheric Pressure			psia
2501170925B	Conductivity		894.2	µS/cm
2501170925B	DTW			ft
2501170925B	Formation Pressure			psia
2501170925B	pH		7.42	NA
2501170925B	Temperature		19.7	ºC
2501170925B	Turbidity		1.53	NTU
2501170926B	Atmospheric Pressure			psia
2501170926B	Conductivity		895	µS/cm
2501170926B	DTW			ft
2501170926B	Formation Pressure			psia
2501170926B	pH		7.42	NA
2501170926B	Temperature		19.7	ºC
2501170926B	Turbidity		1.4	NTU
2501170927B	Atmospheric Pressure			psia
2501170927B	Conductivity		895.3	µS/cm
2501170927B	DTW			ft
2501170927B	Formation Pressure			psia
2501170927B	pH		7.42	NA
2501170927B	Temperature		19.7	ºC
2501170927B	Turbidity		1.28	NTU

Well ID	BLM-22-570	Event Date	11/14/2024	
Sample	**Parameter**		**Result**	**Units**
2411141355A	Atmospheric Pressure			psia
2411141355A	Conductivity		1068.1	µS/cm
2411141355A	DTW			ft
2411141355A	Formation Pressure			psia
2411141355A	pH		8.51	NA
2411141355A	Temperature		21.62	ºC
2411141355A	Turbidity		1.1	NTU
2411141356A	Atmospheric Pressure			psia
2411141356A	Conductivity		1081.1	µS/cm
2411141356A	DTW			ft
2411141356A	Formation Pressure			psia
2411141356A	pH		8.5	NA
2411141356A	Temperature		21.77	ºC
2411141356A	Turbidity		1.01	NTU
2411141357A	Atmospheric Pressure			psia
2411141357A	Conductivity		1090.1	µS/cm
2411141357A	DTW			ft
2411141357A	Formation Pressure			psia
2411141357A	pH		8.5	NA
2411141357A	Temperature		21.64	ºC
2411141357A	Turbidity		1.2	NTU

Well ID	BLM-24-565	Event Date	11/4/2024	
Sample	**Parameter**		**Result**	**Units**
2411041315C	Atmospheric Pressure			psia
2411041315C	Conductivity		991.52	µS/cm
2411041315C	DTW		331.84	ft
2411041315C	Formation Pressure			psia
2411041315C	pH		10.52	NA
2411041315C	Temperature		19.95	ºC
2411041315C	Turbidity		2.02	NTU
2411041316C	Atmospheric Pressure			psia
2411041316C	Conductivity		1031.06	µS/cm
2411041316C	DTW			ft
2411041316C	Formation Pressure			psia
2411041316C	pH		10.58	NA
2411041316C	Temperature		19.82	ºC
2411041316C	Turbidity		1.50	NTU
2411041317C	Atmospheric Pressure			psia
2411041317C	Conductivity		1054.46	µS/cm
2411041317C	DTW			ft
2411041317C	Formation Pressure			psia
2411041317C	pH		10.63	NA
2411041317C	Temperature		19.78	ºC
2411041317C	Turbidity		1.26	NTU

Well ID	BLM-2-630	Event Date	11/6/2024	
Sample	**Parameter**		**Result**	**Units**
2411061400A	Atmospheric Pressure			psia
2411061400A	Conductivity		848	µS/cm
2411061400A	DTW			ft
2411061400A	Formation Pressure			psia
2411061400A	pH		7.73	NA
2411061400A	Temperature		19.8	ºC
2411061400A	Turbidity		0.47	NTU
2411061402A	Atmospheric Pressure			psia
2411061402A	Conductivity		847	µS/cm
2411061402A	DTW			ft
2411061402A	Formation Pressure			psia
2411061402A	pH		7.7	NA
2411061402A	Temperature		19.81	ºC
2411061402A	Turbidity		0.49	NTU
2411061404A	Atmospheric Pressure			psia
2411061404A	Conductivity		847	µS/cm
2411061404A	DTW			ft
2411061404A	Formation Pressure			psia
2411061404A	pH		7.72	NA
2411061404A	Temperature		19.8	ºC
2411061404A	Turbidity		0.45	NTU

Well ID	BLM-26-404	Event Date	11/14/2024	
Sample	**Parameter**		**Result**	**Units**
2411140855A	Atmospheric Pressure			psia
2411140855A	Conductivity		998.26	µS/cm
2411140855A	DTW			ft
2411140855A	Formation Pressure			psia
2411140855A	pH		7.24	NA
2411140855A	Temperature		22.71	ºC
2411140855A	Turbidity		0.49	NTU
2411140856A	Atmospheric Pressure			psia
2411140856A	Conductivity		998.28	µS/cm
2411140856A	DTW			ft
2411140856A	Formation Pressure			psia
2411140856A	pH		7.28	NA
2411140856A	Temperature		22.68	ºC
2411140856A	Turbidity		0.51	NTU
2411140857A	Atmospheric Pressure			psia
2411140857A	Conductivity		998.26	µS/cm
2411140857A	DTW			ft
2411140857A	Formation Pressure			psia
2411140857A	pH		7.25	NA
2411140857A	Temperature		22.7	ºC
2411140857A	Turbidity		0.45	NTU

Well ID	BLM-27-270	Event Date	12/10/2024	
Sample	**Parameter**		**Result**	**Units**
2412100920A	Atmospheric Pressure			psia
2412100920A	Conductivity		789.9	µS/cm
2412100920A	DTW			ft
2412100920A	Formation Pressure			psia
2412100920A	pH		7.59	NA
2412100920A	Temperature		19.23	ºC
2412100920A	Turbidity		0.38	NTU
2412100921A	Atmospheric Pressure			psia
2412100921A	Conductivity		789.69	µS/cm
2412100921A	DTW			ft
2412100921A	Formation Pressure			psia
2412100921A	pH		7.59	NA
2412100921A	Temperature		19.23	ºC
2412100921A	Turbidity		0.41	NTU
2412100922A	Atmospheric Pressure			psia
2412100922A	Conductivity		789.84	µS/cm
2412100922A	DTW			ft
2412100922A	Formation Pressure			psia
2412100922A	pH		7.59	NA
2412100922A	Temperature		19.23	ºC
2412100922A	Turbidity		0.49	NTU

Well ID	BLM-3-182	Event Date	11/7/2024	
Sample	**Parameter**		**Result**	**Units**
2411071345A	Atmospheric Pressure			psia
2411071345A	Conductivity		3832	µS/cm
2411071345A	DTW		178.1	ft
2411071345A	Formation Pressure			psia
2411071345A	pH		7.84	NA
2411071345A	Temperature		20.91	ºC
2411071345A	Turbidity		79.3	NTU
2411071347A	Atmospheric Pressure			psia
2411071347A	Conductivity		3818	µS/cm
2411071347A	DTW		178.26	ft
2411071347A	Formation Pressure			psia
2411071347A	pH		7.81	NA
2411071347A	Temperature		20.91	ºC
2411071347A	Turbidity		78.5	NTU
2411071349A	Atmospheric Pressure			psia
2411071349A	Conductivity		3822	µS/cm
2411071349A	DTW		179	ft
2411071349A	Formation Pressure			psia
2411071349A	pH		7.8	NA
2411071349A	Temperature		20.92	ºC
2411071349A	Turbidity		78.1	NTU

Well ID	BLM-32-543	Event Date	11/4/2024	
Sample	**Parameter**		**Result**	**Units**
2411041150B	Atmospheric Pressure			psia
2411041150B	Conductivity		961	µS/cm
2411041150B	DTW			ft
2411041150B	Formation Pressure			psia
2411041150B	pH		10.33	NA
2411041150B	Temperature		18.9	ºC
2411041150B	Turbidity		1.07	NTU

Well ID	BLM-32-571	Event Date	11/4/2024	
Sample	**Parameter**		**Result**	**Units**
2411041320B	Atmospheric Pressure			psia
2411041320B	Conductivity		946	µS/cm
2411041320B	DTW			ft
2411041320B	Formation Pressure			psia
2411041320B	pH		9.63	NA
2411041320B	Temperature		18	ºC
2411041320B	Turbidity		1.2	NTU

Well ID	BLM-32-632	Event Date	11/4/2024	
Sample	**Parameter**		**Result**	**Units**
2411041350B	Atmospheric Pressure			psia
2411041350B	Conductivity		930	µS/cm
2411041350B	DTW			ft
2411041350B	Formation Pressure			psia
2411041350B	pH		8.96	NA
2411041350B	Temperature		18	ºC
2411041350B	Turbidity		0.98	NTU

Well ID	BLM-36-350	Event Date	11/8/2024	
Sample	**Parameter**		**Result**	**Units**
2411081300Y	Atmospheric Pressure		12.43	psia
2411081300Y	Conductivity		1225	µS/cm
2411081300Y	DTW		563.81	ft
2411081300Y	Formation Pressure			psia
2411081300Y	pH		8.02	NA
2411081300Y	Temperature		19.5	ºC
2411081300Y	Turbidity		3.37	NTU
2411081425Y	Atmospheric Pressure		NA	psia
2411081425Y	Conductivity		2.89	µS/cm
2411081425Y	DTW		563.83	ft
2411081425Y	Formation Pressure			psia
2411081425Y	pH		7.92	NA
2411081425Y	Temperature		19.81233	ºC
2411081425Y	Turbidity		12.46	NTU

Well ID	BLM-36-610	Event Date	11/6/2024	
Sample	**Parameter**		**Result**	**Units**
2411061000Y	Atmospheric Pressure		12.37	psia
2411061000Y	Conductivity		785	µS/cm
2411061000Y	DTW		563.73	ft
2411061000Y	Formation Pressure			psia
2411061000Y	pH		7.81	NA
2411061000Y	Temperature		21.5	ºC
2411061000Y	Turbidity		1.14	NTU
2411061335Y	Atmospheric Pressure		12.41	psia
2411061335Y	Conductivity		777	µS/cm
2411061335Y	DTW		563.75	ft
2411061335Y	Formation Pressure			psia
2411061335Y	pH		7.71	NA
2411061335Y	Temperature		21.2	ºC
2411061335Y	Turbidity		1.1	NTU

Well ID	BLM-36-800	Event Date	11/7/2024	
Sample	**Parameter**		**Result**	**Units**
2411071335Y	Atmospheric Pressure		12.42	psia
2411071335Y	Conductivity		1016	µS/cm
2411071335Y	DTW		563.8	ft
2411071335Y	Formation Pressure			psia
2411071335Y	pH		7.8	NA
2411071335Y	Temperature		19.6	ºC
2411071335Y	Turbidity		3.21	NTU
2411071410Y	Atmospheric Pressure		12.42	psia
2411071410Y	Conductivity		1022	µS/cm
2411071410Y	DTW		563.81	ft
2411071410Y	Formation Pressure			psia
2411071410Y	pH		7.85	NA
2411071410Y	Temperature		19.9	ºC
2411071410Y	Turbidity		3.18	NTU

Well ID	BLM-36-860	Event Date	11/6/2024	
Sample	**Parameter**		**Result**	**Units**
2411061450Y	Atmospheric Pressure		1237	psia
2411061450Y	Conductivity		950	µS/cm
2411061450Y	DTW			ft
2411061450Y	Formation Pressure			psia
2411061450Y	pH		7.44	NA
2411061450Y	Temperature		23.8	ºC
2411061450Y	Turbidity		166	NTU
2411070950Y	Atmospheric Pressure			psia
2411070950Y	Conductivity		961	µS/cm
2411070950Y	DTW			ft
2411070950Y	Formation Pressure			psia
2411070950Y	pH		7.55	NA
2411070950Y	Temperature		9.2	ºC
2411070950Y	Turbidity		22.8	NTU

Well ID **BLM-38-480** **Event Date** **11/13/2024**

Sample	Parameter	Result	Units
2411131320Y	Atmospheric Pressure	12.52	psia
2411131320Y	Conductivity	919	µS/cm
2411131320Y	DTW	406.38	ft
2411131320Y	Formation Pressure		psia
2411131320Y	pH	8.22	NA
2411131320Y	Temperature	22.1	ºC
2411131320Y	Turbidity	1.14	NTU
2411131425Y	Atmospheric Pressure	12.51	psia
2411131425Y	Conductivity	928	µS/cm
2411131425Y	DTW	406.46	ft
2411131425Y	Formation Pressure	NA	psia
2411131425Y	pH	8.13	NA
2411131425Y	Temperature	22.6	ºC
2411131425Y	Turbidity	1.02	NTU

Well ID **BLM-38-620** **Event Date** **11/13/2024**

Sample	Parameter	Result	Units
2411131010Y	Atmospheric Pressure	12.47	psia
2411131010Y	Conductivity	1043	µS/cm
2411131010Y	DTW	406.3	ft
2411131010Y	Formation Pressure		psia
2411131010Y	pH	7.96	NA
2411131010Y	Temperature	20.6	ºC
2411131010Y	Turbidity	1.53	NTU
2411131047Y	Atmospheric Pressure	12.5	psia
2411131047Y	Conductivity	1037	µS/cm
2411131047Y	DTW	406.38	ft
2411131047Y	Formation Pressure		psia
2411131047Y	pH	8.04	NA
2411131047Y	Temperature	20.9	ºC
2411131047Y	Turbidity	1.13	NTU

Well ID	BLM-42-569	Event Date	12/9/2024	
Sample	**Parameter**		**Result**	**Units**
2412091355A	Atmospheric Pressure			psia
2412091355A	Conductivity		586.36	µS/cm
2412091355A	DTW			ft
2412091355A	Formation Pressure			psia
2412091355A	pH		8.94	NA
2412091355A	Temperature		21.64	ºC
2412091355A	Turbidity		0.91	NTU
2412091356A	Atmospheric Pressure			psia
2412091356A	Conductivity		586.1	µS/cm
2412091356A	DTW			ft
2412091356A	Formation Pressure			psia
2412091356A	pH		8.93	NA
2412091356A	Temperature		21.63	ºC
2412091356A	Turbidity		0.88	NTU
2412091357A	Atmospheric Pressure			psia
2412091357A	Conductivity		586	µS/cm
2412091357A	DTW			ft
2412091357A	Formation Pressure			psia
2412091357A	pH		8.94	NA
2412091357A	Temperature		21.63	ºC
2412091357A	Turbidity		0.73	NTU

Well ID	BLM-42-709	Event Date	12/9/2024	
Sample	**Parameter**		**Result**	**Units**
2412090955A	Atmospheric Pressure			psia
2412090955A	Conductivity		572.69	µS/cm
2412090955A	DTW			ft
2412090955A	Formation Pressure			psia
2412090955A	pH		7.35	NA
2412090955A	Temperature		21.39	ºC
2412090955A	Turbidity		0.84	NTU
2412090956A	Atmospheric Pressure			psia
2412090956A	Conductivity		574.4	µS/cm
2412090956A	DTW			ft
2412090956A	Formation Pressure			psia
2412090956A	pH		7.37	NA
2412090956A	Temperature		21.4	ºC
2412090956A	Turbidity		0.78	NTU
2412090957A	Atmospheric Pressure			psia
2412090957A	Conductivity		574.69	µS/cm
2412090957A	DTW			ft
2412090957A	Formation Pressure			psia
2412090957A	pH		7.37	NA
2412090957A	Temperature		21.41	ºC
2412090957A	Turbidity		0.89	NTU

Well ID	BLM-6-488	Event Date	1/2/2025	
Sample	**Parameter**		**Result**	**Units**
2501021006A	Atmospheric Pressure			psia
2501021006A	Conductivity		1388	µS/cm
2501021006A	DTW			ft
2501021006A	Formation Pressure			psia
2501021006A	pH		7.54	NA
2501021006A	Temperature		19.99	ºC
2501021006A	Turbidity		0.58	NTU
2501021008A	Atmospheric Pressure			psia
2501021008A	Conductivity		1385	µS/cm
2501021008A	DTW			ft
2501021008A	Formation Pressure			psia
2501021008A	pH		7.49	NA
2501021008A	Temperature		19.88	ºC
2501021008A	Turbidity		0.62	NTU
2501021010A	Atmospheric Pressure			psia
2501021010A	Conductivity		1386	µS/cm
2501021010A	DTW			ft
2501021010A	Formation Pressure			psia
2501021010A	pH		7.51	NA
2501021010A	Temperature		19.98	ºC
2501021010A	Turbidity		0.56	NTU

Well ID	BLM-7-509	Event Date	12/9/2024	
Sample	**Parameter**		**Result**	**Units**
2412090900C	Atmospheric Pressure			psia
2412090900C	Conductivity		988	µS/cm
2412090900C	DTW			ft
2412090900C	Formation Pressure			psia
2412090900C	pH		7.6	NA
2412090900C	Temperature		12.88	ºC
2412090900C	Turbidity		0.57	NTU
2412090902C	Atmospheric Pressure			psia
2412090902C	Conductivity		987	µS/cm
2412090902C	DTW			ft
2412090902C	Formation Pressure			psia
2412090902C	pH		7.57	NA
2412090902C	Temperature		12.88	ºC
2412090902C	Turbidity		0.61	NTU
2412090904C	Atmospheric Pressure			psia
2412090904C	Conductivity		987	µS/cm
2412090904C	DTW			ft
2412090904C	Formation Pressure			psia
2412090904C	pH		7.56	NA
2412090904C	Temperature		12.89	ºC
2412090904C	Turbidity		0.58	NTU

Well ID	BLM-8-418	Event Date	11/4/2024	
Sample	**Parameter**		**Result**	**Units**
2411040900C	Atmospheric Pressure			psia
2411040900C	Conductivity		960.46	µS/cm
2411040900C	DTW		335.95	ft
2411040900C	Formation Pressure			psia
2411040900C	pH		7.4	NA
2411040900C	Temperature		19.13	ºC
2411040900C	Turbidity		1.9	NTU
2411040903C	Atmospheric Pressure			psia
2411040903C	Conductivity		956.38	µS/cm
2411040903C	DTW			ft
2411040903C	Formation Pressure			psia
2411040903C	pH		7.4	NA
2411040903C	Temperature		19.09	ºC
2411040903C	Turbidity		1.65	NTU
2411040906C	Atmospheric Pressure			psia
2411040906C	Conductivity		951.72	µS/cm
2411040906C	DTW			ft
2411040906C	Formation Pressure			psia
2411040906C	pH		7.41	NA
2411040906C	Temperature		19.02	ºC
2411040906C	Turbidity		1.37	NTU

Well ID	BW-4-330	Event Date	11/27/2024	
Sample	**Parameter**		**Result**	**Units**
2411270915C	Atmospheric Pressure			psia
2411270915C	Conductivity		25.3	µS/cm
2411270915C	DTW		197.1	ft
2411270915C	Formation Pressure			psia
2411270915C	pH		11,94	NA
2411270915C	Temperature		20.56	ºC
2411270915C	Turbidity		14.3	NTU
2411270917C	Atmospheric Pressure			psia
2411270917C	Conductivity		25.26	µS/cm
2411270917C	DTW		197.31	ft
2411270917C	Formation Pressure			psia
2411270917C	pH		11.91	NA
2411270917C	Temperature		20.55	ºC
2411270917C	Turbidity		14.6	NTU
2411270919C	Atmospheric Pressure			psia
2411270919C	Conductivity		25.25	µS/cm
2411270919C	DTW			ft
2411270919C	Formation Pressure			psia
2411270919C	pH		11.93	NA
2411270919C	Temperature		20.55	ºC
2411270919C	Turbidity		14.1	NTU

Well ID	BW-5-295	Event Date	11/8/2024	
Sample	**Parameter**		**Result**	**Units**
2411081010A	Atmospheric Pressure			psia
2411081010A	Conductivity		7.66	µS/cm
2411081010A	DTW		236.71	ft
2411081010A	Formation Pressure			psia
2411081010A	pH		7.95	NA
2411081010A	Temperature		21.24	ºC
2411081010A	Turbidity		5.53	NTU
2411081012A	Atmospheric Pressure			psia
2411081012A	Conductivity		7.61	µS/cm
2411081012A	DTW			ft
2411081012A	Formation Pressure			psia
2411081012A	pH		7.91	NA
2411081012A	Temperature		21.23	ºC
2411081012A	Turbidity		5.48	NTU
2411081014A	Atmospheric Pressure			psia
2411081014A	Conductivity		7.62	µS/cm
2411081014A	DTW			ft
2411081014A	Formation Pressure			psia
2411081014A	pH		7.9	NA
2411081014A	Temperature		21.23	ºC
2411081014A	Turbidity		5.51	NTU

Well ID	BW-7-211	Event Date	12/10/2024	
Sample	**Parameter**		**Result**	**Units**
2412101335A	Atmospheric Pressure			psia
2412101335A	Conductivity		1010.4	µS/cm
2412101335A	DTW			ft
2412101335A	Formation Pressure			psia
2412101335A	pH		7.49	NA
2412101335A	Temperature		20.83	ºC
2412101335A	Turbidity		0.83	NTU
2412101336A	Atmospheric Pressure			psia
2412101336A	Conductivity		1013.5	µS/cm
2412101336A	DTW			ft
2412101336A	Formation Pressure			psia
2412101336A	pH		7.49	NA
2412101336A	Temperature		21	ºC
2412101336A	Turbidity		0.89	NTU
2412101337A	Atmospheric Pressure			psia
2412101337A	Conductivity		1012.6	µS/cm
2412101337A	DTW			ft
2412101337A	Formation Pressure			psia
2412101337A	pH		7.49	NA
2412101337A	Temperature		21.03	ºC
2412101337A	Turbidity		0.78	NTU

Well ID	JER-1-483	Event Date	1/14/2025	
Sample	**Parameter**		**Result**	**Units**
2501141235B	Atmospheric Pressure			psia
2501141235B	Conductivity		1053	µS/cm
2501141235B	DTW			ft
2501141235B	Formation Pressure			psia
2501141235B	pH		8.14	NA
2501141235B	Temperature		17.2	ºC
2501141235B	Turbidity		1.1	NTU
2501141248B	Atmospheric Pressure			psia
2501141248B	Conductivity		1051	µS/cm
2501141248B	DTW			ft
2501141248B	Formation Pressure			psia
2501141248B	pH		8.17	NA
2501141248B	Temperature		17.1	ºC
2501141248B	Turbidity		1.08	NTU

Well ID	JER-1-563	Event Date	1/14/2025	
Sample	**Parameter**		**Result**	**Units**
2501141307B	Atmospheric Pressure			psia
2501141307B	Conductivity		1020	µS/cm
2501141307B	DTW			ft
2501141307B	Formation Pressure			psia
2501141307B	pH		8.44	NA
2501141307B	Temperature		16	ºC
2501141307B	Turbidity		2.16	NTU
2501141314B	Atmospheric Pressure			psia
2501141314B	Conductivity		1017	µS/cm
2501141314B	DTW			ft
2501141314B	Formation Pressure			psia
2501141314B	pH		8.43	NA
2501141314B	Temperature		16	ºC
2501141314B	Turbidity		2.12	NTU

Well ID	JER-1-683	Event Date	1/14/2025	
Sample	**Parameter**		**Result**	**Units**
2501141325B	Atmospheric Pressure			psia
2501141325B	Conductivity		1071	µS/cm
2501141325B	DTW			ft
2501141325B	Formation Pressure			psia
2501141325B	pH		8.61	NA
2501141325B	Temperature		16.5	ºC
2501141325B	Turbidity		1.07	NTU
2501141338B	Atmospheric Pressure			psia
2501141338B	Conductivity		1070	µS/cm
2501141338B	DTW			ft
2501141338B	Formation Pressure			psia
2501141338B	pH		8.58	NA
2501141338B	Temperature		16.4	ºC
2501141338B	Turbidity		1.05	NTU

Well ID	JER-2-504	Event Date	1/15/2025	
Sample	**Parameter**		**Result**	**Units**
2501151230B	Atmospheric Pressure			psia
2501151230B	Conductivity		967	µS/cm
2501151230B	DTW			ft
2501151230B	Formation Pressure			psia
2501151230B	pH		8.91	NA
2501151230B	Temperature		16.4	ºC
2501151230B	Turbidity		1.34	NTU
2501151300B	Atmospheric Pressure			psia
2501151300B	Conductivity		971	µS/cm
2501151300B	DTW			ft
2501151300B	Formation Pressure			psia
2501151300B	pH		8.87	NA
2501151300B	Temperature		16.3	ºC
2501151300B	Turbidity		1.29	NTU

Well ID	JER-2-584	Event Date	1/15/2025	
Sample	**Parameter**		**Result**	**Units**
2501151237B	Atmospheric Pressure			psia
2501151237B	Conductivity		998	µS/cm
2501151237B	DTW			ft
2501151237B	Formation Pressure			psia
2501151237B	pH		8.83	NA
2501151237B	Temperature		16	ºC
2501151237B	Turbidity		1	NTU
2501151318B	Atmospheric Pressure			psia
2501151318B	Conductivity		996	µS/cm
2501151318B	DTW			ft
2501151318B	Formation Pressure			psia
2501151318B	pH		8.84	NA
2501151318B	Temperature		16.1	ºC
2501151318B	Turbidity		1.02	NTU

Well ID	JER-2-684	Event Date	1/15/2025	
Sample	**Parameter**		**Result**	**Units**
2501151245B	Atmospheric Pressure			psia
2501151245B	Conductivity		1034	µS/cm
2501151245B	DTW			ft
2501151245B	Formation Pressure			psia
2501151245B	pH		8.9	NA
2501151245B	Temperature		16.6	ºC
2501151245B	Turbidity		1.27	NTU
2501151335B	Atmospheric Pressure			psia
2501151335B	Conductivity		1031	µS/cm
2501151335B	DTW			ft
2501151335B	Formation Pressure			psia
2501151335B	pH		8.87	NA
2501151335B	Temperature		16.5	ºC
2501151335B	Turbidity		1.22	NTU

Well ID	JP-1-424	Event Date	1/6/2025	
Sample	**Parameter**		**Result**	**Units**
2501060945C	Atmospheric Pressure			psia
2501060945C	Conductivity		963.06	µS/cm
2501060945C	DTW		418.18	ft
2501060945C	Formation Pressure			psia
2501060945C	pH		7.55	NA
2501060945C	Temperature		19.01	ºC
2501060945C	Turbidity		1.47	NTU
2501060950C	Atmospheric Pressure			psia
2501060950C	Conductivity		962.34	µS/cm
2501060950C	DTW			ft
2501060950C	Formation Pressure			psia
2501060950C	pH		7.56	NA
2501060950C	Temperature		19.09	ºC
2501060950C	Turbidity		1.53	NTU
2501060955C	Atmospheric Pressure			psia
2501060955C	Conductivity		961.1	µS/cm
2501060955C	DTW			ft
2501060955C	Formation Pressure			psia
2501060955C	pH		7.56	NA
2501060955C	Temperature		19.16	ºC
2501060955C	Turbidity		1.6	NTU

Well ID	JP-2-447	Event Date	1/6/2025	
Sample	**Parameter**		**Result**	**Units**
2501061400C	Atmospheric Pressure			psia
2501061400C	Conductivity		893.22	µS/cm
2501061400C	DTW		419.24	ft
2501061400C	Formation Pressure			psia
2501061400C	pH		7.43	NA
2501061400C	Temperature		18.92	ºC
2501061400C	Turbidity		0.64	NTU
2501061405C	Atmospheric Pressure			psia
2501061405C	Conductivity		893.66	µS/cm
2501061405C	DTW			ft
2501061405C	Formation Pressure			psia
2501061405C	pH		7.43	NA
2501061405C	Temperature		18.9	ºC
2501061405C	Turbidity		0.73	NTU
2501061410C	Atmospheric Pressure			psia
2501061410C	Conductivity		899.6	µS/cm
2501061410C	DTW			ft
2501061410C	Formation Pressure			psia
2501061410C	pH		7.44	NA
2501061410C	Temperature		18.88	ºC
2501061410C	Turbidity		0.59	NTU

Well ID	JP-3-509	Event Date	1/16/2025	
Sample	**Parameter**		**Result**	**Units**
2501161330C	Atmospheric Pressure			psia
2501161330C	Conductivity		992.76	µS/cm
2501161330C	DTW			ft
2501161330C	Formation Pressure			psia
2501161330C	pH		7.45	NA
2501161330C	Temperature		20.68	ºC
2501161330C	Turbidity		0.56	NTU
2501161331C	Atmospheric Pressure			psia
2501161331C	Conductivity		992.76	µS/cm
2501161331C	DTW			ft
2501161331C	Formation Pressure			psia
2501161331C	pH		7.45	NA
2501161331C	Temperature		20.67	ºC
2501161331C	Turbidity		0.56	NTU
2501161332C	Atmospheric Pressure			psia
2501161332C	Conductivity		992.96	µS/cm
2501161332C	DTW			ft
2501161332C	Formation Pressure			psia
2501161332C	pH		7.46	NA
2501161332C	Temperature		20.67	ºC
2501161332C	Turbidity		20.67	NTU

Well ID	JP-3-689	Event Date	1/16/2025	
Sample	**Parameter**		**Result**	**Units**
2501160935C	Atmospheric Pressure			psia
2501160935C	Conductivity		983.04	µS/cm
2501160935C	DTW			ft
2501160935C	Formation Pressure			psia
2501160935C	pH		7.46	NA
2501160935C	Temperature		19.97	ºC
2501160935C	Turbidity		1.1	NTU
2501160936C	Atmospheric Pressure			psia
2501160936C	Conductivity		983.15	µS/cm
2501160936C	DTW			ft
2501160936C	Formation Pressure			psia
2501160936C	pH		7.47	NA
2501160936C	Temperature		19.97	ºC
2501160936C	Turbidity		0.83	NTU
2501160937C	Atmospheric Pressure			psia
2501160937C	Conductivity		983.1	µS/cm
2501160937C	DTW			ft
2501160937C	Formation Pressure			psia
2501160937C	pH		7.46	NA
2501160937C	Temperature		19.97	ºC
2501160937C	Turbidity		0.8	NTU

Well ID **NASA 4** **Event Date** **11/18/2024**

Sample	Parameter	Result	Units
2411181000C	Atmospheric Pressure		psia
2411181000C	Conductivity	1546	µS/cm
2411181000C	DTW	137.24	ft
2411181000C	Formation Pressure		psia
2411181000C	pH	8.92	NA
2411181000C	Temperature	20.3	ºC
2411181000C	Turbidity	11.5	NTU
2411181025C	Atmospheric Pressure		psia
2411181025C	Conductivity	1551	µS/cm
2411181025C	DTW		ft
2411181025C	Formation Pressure		psia
2411181025C	pH	8.94	NA
2411181025C	Temperature	20.1	ºC
2411181025C	Turbidity	8.62	NTU
2411181030C	Atmospheric Pressure		psia
2411181030C	Conductivity	1547	µS/cm
2411181030C	DTW		ft
2411181030C	Formation Pressure		psia
2411181030C	pH	8.86	NA
2411181030C	Temperature	19.8	ºC
2411181030C	Turbidity	6.94	NTU

Well ID	NASA 6	Event Date	11/20/2024	
Sample	**Parameter**		**Result**	**Units**
2411201000C	Atmospheric Pressure			psia
2411201000C	Conductivity		1735	µS/cm
2411201000C	DTW		131.5	ft
2411201000C	Formation Pressure			psia
2411201000C	pH		7.19	NA
2411201000C	Temperature		18.9	ºC
2411201000C	Turbidity		5.92	NTU
2411201030C	Atmospheric Pressure			psia
2411201030C	Conductivity		1733	µS/cm
2411201030C	DTW		131.55	ft
2411201030C	Formation Pressure			psia
2411201030C	pH		7.21	NA
2411201030C	Temperature		19	ºC
2411201030C	Turbidity		5.71	NTU
2411201040C	Atmospheric Pressure			psia
2411201040C	Conductivity		1729	µS/cm
2411201040C	DTW			ft
2411201040C	Formation Pressure			psia
2411201040C	pH		7.2	NA
2411201040C	Temperature		19.1	ºC
2411201040C	Turbidity		5.77	NTU

Well ID	PL-10-484	Event Date	1/17/2025	
Sample	**Parameter**		**Result**	**Units**
2501171100Y	Atmospheric Pressure		12.57	psia
2501171100Y	Conductivity		1104	µS/cm
2501171100Y	DTW		471.22	ft
2501171100Y	Formation Pressure			psia
2501171100Y	pH		8.14	NA
2501171100Y	Temperature		20.6	ºC
2501171100Y	Turbidity		2.06	NTU
2501221110Y	Atmospheric Pressure		12.53	psia
2501221110Y	Conductivity		1119	µS/cm
2501221110Y	DTW		471.27	ft
2501221110Y	Formation Pressure			psia
2501221110Y	pH		8.06	NA
2501221110Y	Temperature		20	ºC
2501221110Y	Turbidity		1.57	NTU

Well ID	PL-10-592	Event Date	1/16/2025	
Sample	**Parameter**		**Result**	**Units**
2501161350Y	Atmospheric Pressure		12.55	psia
2501161350Y	Conductivity		1116	µS/cm
2501161350Y	DTW		471.05	ft
2501161350Y	Formation Pressure			psia
2501161350Y	pH		8.32	NA
2501161350Y	Temperature		22.3	ºC
2501161350Y	Turbidity		1.32	NTU
2501161450Y	Atmospheric Pressure		12.55	psia
2501161450Y	Conductivity		1119	µS/cm
2501161450Y	DTW		471.22	ft
2501161450Y	Formation Pressure			psia
2501161450Y	pH		8.29	NA
2501161450Y	Temperature		22.3	ºC
2501161450Y	Turbidity		1.3	NTU

Well ID	PL-11-470	Event Date	12/2/2024	
Sample	**Parameter**		**Result**	**Units**
2412021145B	Atmospheric Pressure			psia
2412021145B	Conductivity		1152	µS/cm
2412021145B	DTW			ft
2412021145B	Formation Pressure			psia
2412021145B	pH		5.43	NA
2412021145B	Temperature		19.5	ºC
2412021145B	Turbidity		7.45	NTU
2412021220B	Atmospheric Pressure			psia
2412021220B	Conductivity		1144	µS/cm
2412021220B	DTW			ft
2412021220B	Formation Pressure			psia
2412021220B	pH		5.33	NA
2412021220B	Temperature		20.9	ºC
2412021220B	Turbidity		7.1	NTU

Well ID	PL-11-530	Event Date	12/2/2024	
Sample	**Parameter**		**Result**	**Units**
2412021150B	Atmospheric Pressure			psia
2412021150B	Conductivity		1101.2.48	µS/cm
2412021150B	DTW			ft
2412021150B	Formation Pressure			psia
2412021150B	pH		8.43	NA
2412021150B	Temperature		19.4	ºC
2412021150B	Turbidity			NTU
2412021235B	Atmospheric Pressure			psia
2412021235B	Conductivity		1114	µS/cm
2412021235B	DTW			ft
2412021235B	Formation Pressure			psia
2412021235B	pH		8.38	NA
2412021235B	Temperature		20.3	ºC
2412021235B	Turbidity		2.03	NTU

Well ID	PL-11-710	Event Date	12/3/2024	
Sample	**Parameter**		**Result**	**Units**
2412031140B	Atmospheric Pressure			psia
2412031140B	Conductivity		1082	µS/cm
2412031140B	DTW			ft
2412031140B	Formation Pressure			psia
2412031140B	pH		8.12	NA
2412031140B	Temperature		18.6	ºC
2412031140B	Turbidity		3.61	NTU
2412031210B	Atmospheric Pressure			psia
2412031210B	Conductivity		1073	µS/cm
2412031210B	DTW			ft
2412031210B	Formation Pressure			psia
2412031210B	pH		8.02	NA
2412031210B	Temperature		20.9	ºC
2412031210B	Turbidity		2.59	NTU

Well ID	PL-11-820	Event Date	12/3/2024	
Sample	**Parameter**		**Result**	**Units**
2412031142B	Atmospheric Pressure			psia
2412031142B	Conductivity		1026	µS/cm
2412031142B	DTW			ft
2412031142B	Formation Pressure			psia
2412031142B	pH		8.62	NA
2412031142B	Temperature		19.1	ºC
2412031142B	Turbidity		4.39	NTU
2412031226B	Atmospheric Pressure			psia
2412031226B	Conductivity		1020	µS/cm
2412031226B	DTW			ft
2412031226B	Formation Pressure			psia
2412031226B	pH		8.63	NA
2412031226B	Temperature		19.5	ºC
2412031226B	Turbidity		3.4	NTU

Well ID	PL-11-980	Event Date	12/3/2024	
Sample	**Parameter**		**Result**	**Units**
2412031144B	Atmospheric Pressure			psia
2412031144B	Conductivity		962	µS/cm
2412031144B	DTW			ft
2412031144B	Formation Pressure			psia
2412031144B	pH		8.71	NA
2412031144B	Temperature		19.9	ºC
2412031144B	Turbidity		2.55	NTU
2412031245B	Atmospheric Pressure			psia
2412031245B	Conductivity		959	µS/cm
2412031245B	DTW			ft
2412031245B	Formation Pressure			psia
2412031245B	pH		8.63	NA
2412031245B	Temperature		20.1	ºC
2412031245B	Turbidity		2.1	NTU

Well ID	PL-12-570	Event Date	11/13/2024	
Sample	**Parameter**		**Result**	**Units**
2411130940A	Atmospheric Pressure			psia
2411130940A	Conductivity		994.77	µS/cm
2411130940A	DTW			ft
2411130940A	Formation Pressure			psia
2411130940A	pH		7.43	NA
2411130940A	Temperature		20.07	ºC
2411130940A	Turbidity		0.35	NTU
2411130945A	Atmospheric Pressure			psia
2411130945A	Conductivity		996.51	µS/cm
2411130945A	DTW			ft
2411130945A	Formation Pressure			psia
2411130945A	pH		7.46	NA
2411130945A	Temperature		19.98	ºC
2411130945A	Turbidity		0.4	NTU
2411130950A	Atmospheric Pressure			psia
2411130950A	Conductivity		994.47	µS/cm
2411130950A	DTW			ft
2411130950A	Formation Pressure			psia
2411130950A	pH		7.5	NA
2411130950A	Temperature		20.41	ºC
2411130950A	Turbidity		0.37	NTU

Well ID	PL-12-800	Event Date	11/13/2024	
Sample	**Parameter**		**Result**	**Units**
2411131350A	Atmospheric Pressure			psia
2411131350A	Conductivity		997.78	µS/cm
2411131350A	DTW			ft
2411131350A	Formation Pressure			psia
2411131350A	pH		8.37	NA
2411131350A	Temperature		20.67	ºC
2411131350A	Turbidity		0.37	NTU
2411131355A	Atmospheric Pressure			psia
2411131355A	Conductivity		996.61	µS/cm
2411131355A	DTW			ft
2411131355A	Formation Pressure			psia
2411131355A	pH		8.37	NA
2411131355A	Temperature		20.69	ºC
2411131355A	Turbidity		0.5	NTU
2411131400A	Atmospheric Pressure			psia
2411131400A	Conductivity		997.67	µS/cm
2411131400A	DTW			ft
2411131400A	Formation Pressure			psia
2411131400A	pH		8.38	NA
2411131400A	Temperature		20.70	ºC
2411131400A	Turbidity		0.41	NTU

Well ID	PL-1-486	Event Date	1/15/2025	
Sample	**Parameter**		**Result**	**Units**
2501151330C	Atmospheric Pressure			psia
2501151330C	Conductivity		898.88	µS/cm
2501151330C	DTW			ft
2501151330C	Formation Pressure			psia
2501151330C	pH		8.05	NA
2501151330C	Temperature		19.73	ºC
2501151330C	Turbidity		1.25	NTU
2501151335C	Atmospheric Pressure			psia
2501151335C	Conductivity		898.29	µS/cm
2501151335C	DTW			ft
2501151335C	Formation Pressure			psia
2501151335C	pH		8.05	NA
2501151335C	Temperature		19.74	ºC
2501151335C	Turbidity		7.09	NTU
2501151338C	Atmospheric Pressure			psia
2501151338C	Conductivity		892.99	µS/cm
2501151338C	DTW			ft
2501151338C	Formation Pressure			psia
2501151338C	pH		8.06	NA
2501151338C	Temperature		19.70	ºC
2501151338C	Turbidity		1.15	NTU

Well ID	PL-2-504	Event Date	12/16/2024	
Sample	**Parameter**		**Result**	**Units**
2412161000A	Atmospheric Pressure			psia
2412161000A	Conductivity		844.14	µS/cm
2412161000A	DTW			ft
2412161000A	Formation Pressure			psia
2412161000A	pH		7.91	NA
2412161000A	Temperature		20.16	ºC
2412161000A	Turbidity		1.91	NTU
2412161003A	Atmospheric Pressure			psia
2412161003A	Conductivity		843.67	µS/cm
2412161003A	DTW			ft
2412161003A	Formation Pressure			psia
2412161003A	pH		7.93	NA
2412161003A	Temperature		20.21	ºC
2412161003A	Turbidity		1.74	NTU
2412161006A	Atmospheric Pressure			psia
2412161006A	Conductivity		843.02	µS/cm
2412161006A	DTW			ft
2412161006A	Formation Pressure			psia
2412161006A	pH		7.94	NA
2412161006A	Temperature		20.25	ºC
2412161006A	Turbidity		1.43	NTU

Well ID	PL-4-464	Event Date	12/2/2024	
Sample	**Parameter**		**Result**	**Units**
2412021440C	Atmospheric Pressure			psia
2412021440C	Conductivity		1015	µS/cm
2412021440C	DTW		455.1	ft
2412021440C	Formation Pressure			psia
2412021440C	pH		7.33	NA
2412021440C	Temperature		31.51	ºC
2412021440C	Turbidity		2.91	NTU
2412021442C	Atmospheric Pressure			psia
2412021442C	Conductivity		1012	µS/cm
2412021442C	DTW			ft
2412021442C	Formation Pressure			psia
2412021442C	pH		7.3	NA
2412021442C	Temperature		31.5	ºC
2412021442C	Turbidity		2.88	NTU
2412021444C	Atmospheric Pressure			psia
2412021444C	Conductivity		1014	µS/cm
2412021444C	DTW			ft
2412021444C	Formation Pressure			psia
2412021444C	pH		7.31	NA
2412021444C	Temperature		31.5	ºC
2412021444C	Turbidity		2.76	NTU

Well ID	PL-6-1195	Event Date	1/22/2025	
Sample	**Parameter**		**Result**	**Units**
2501221450Y	Atmospheric Pressure		12.54	psia
2501221450Y	Conductivity		1838	µS/cm
2501221450Y	DTW		472.72	ft
2501221450Y	Formation Pressure			psia
2501221450Y	pH		8.12	NA
2501221450Y	Temperature		20.1	ºC
2501221450Y	Turbidity		5.84	NTU
2501270934Y	Atmospheric Pressure		12.51	psia
2501270934Y	Conductivity		1835	µS/cm
2501270934Y	DTW		472.9	ft
2501270934Y	Formation Pressure			psia
2501270934Y	pH		8.15	NA
2501270934Y	Temperature		19.6	ºC
2501270934Y	Turbidity		4.5	NTU

Well ID **PL-6-1335** **Event Date** **1/27/2025**

Sample	Parameter	Result	Units
2501280905Y	Atmospheric Pressure	12.45	psia
2501280905Y	Conductivity	2.13	µS/cm
2501280905Y	DTW	472.9	ft
2501280905Y	Formation Pressure		psia
2501280905Y	pH	7.83	NA
2501280905Y	Temperature	20.9	ºC
2501280905Y	Turbidity	2.99	NTU
2501281110Y	Atmospheric Pressure	12.48	psia
2501281110Y	Conductivity	2.14	µS/cm
2501281110Y	DTW	473.02	ft
2501281110Y	Formation Pressure		psia
2501281110Y	pH	7.72	NA
2501281110Y	Temperature	21.2	ºC
2501281110Y	Turbidity	2.33	NTU

Well ID **PL-6-915** **Event Date** **1/28/2025**

Sample	Parameter	Result	Units
2501291005Y	Atmospheric Pressure	12.45	psia
2501291005Y	Conductivity	1076	µS/cm
2501291005Y	DTW	473.02	ft
2501291005Y	Formation Pressure		psia
2501291005Y	pH	8.27	NA
2501291005Y	Temperature	21.7	ºC
2501291005Y	Turbidity	3.32	NTU
2501291420Y	Atmospheric Pressure	12.47	psia
2501291420Y	Conductivity	1081	µS/cm
2501291420Y	DTW	473.48	ft
2501291420Y	Formation Pressure		psia
2501291420Y	pH	8.28	NA
2501291420Y	Temperature	20.9	ºC
2501291420Y	Turbidity	2.29	NTU

Well ID **PL-7-560** **Event Date** **11/14/2024**

Sample	Parameter	Result	Units
2411141035Y	Atmospheric Pressure	12.53	psia
2411141035Y	Conductivity	933	µS/cm
2411141035Y	DTW	485.64	ft
2411141035Y	Formation Pressure		psia
2411141035Y	pH	8.05	NA
2411141035Y	Temperature	20.5	ºC
2411141035Y	Turbidity	2.89	NTU
2411141300Y	Atmospheric Pressure	12.51	psia
2411141300Y	Conductivity	918	µS/cm
2411141300Y	DTW	485.73	ft
2411141300Y	Formation Pressure		psia
2411141300Y	pH	7.89	NA
2411141300Y	Temperature	20.9	ºC
2411141300Y	Turbidity	1.65	NTU

Well ID **PL-8-455** **Event Date** **12/6/2024**

Sample	Parameter	Result	Units
2412061300Y	Atmospheric Pressure	12.54	psia
2412061300Y	Conductivity	951	µS/cm
2412061300Y	DTW	455.72	ft
2412061300Y	Formation Pressure		psia
2412061300Y	pH	8.43	NA
2412061300Y	Temperature	21.4	ºC
2412061300Y	Turbidity	1.28	NTU
2412061430Y	Atmospheric Pressure	12.51	psia
2412061430Y	Conductivity	945	µS/cm
2412061430Y	DTW	455.74	ft
2412061430Y	Formation Pressure		psia
2412061430Y	pH	8.32	NA
2412061430Y	Temperature	20.8	ºC
2412061430Y	Turbidity	1.17	NTU

Well ID	PL-8-605	Event Date	12/6/2024	
Sample	**Parameter**		**Result**	**Units**
2412060925Y	Atmospheric Pressure		12.61	psia
2412060925Y	Conductivity		1017	µS/cm
2412060925Y	DTW		455.64	ft
2412060925Y	Formation Pressure			psia
2412060925Y	pH		8.67	NA
2412060925Y	Temperature		21.7	ºC
2412060925Y	Turbidity		2.6	NTU
2412061216Y	Atmospheric Pressure		12.59	psia
2412061216Y	Conductivity		1009	µS/cm
2412061216Y	DTW		455.72	ft
2412061216Y	Formation Pressure			psia
2412061216Y	pH		8.8	NA
2412061216Y	Temperature		21.1	ºC
2412061216Y	Turbidity		1.85	NTU

Well ID	ST-1-473	Event Date	11/14/2024	
Sample	**Parameter**		**Result**	**Units**
2411141400C	Atmospheric Pressure			psia
2411141400C	Conductivity		994	µS/cm
2411141400C	DTW		478.22	ft
2411141400C	Formation Pressure			psia
2411141400C	pH		7.71	NA
2411141400C	Temperature		20.92	ºC
2411141400C	Turbidity		1.51	NTU
2411141402C	Atmospheric Pressure			psia
2411141402C	Conductivity		989	µS/cm
2411141402C	DTW			ft
2411141402C	Formation Pressure			psia
2411141402C	pH		7.68	NA
2411141402C	Temperature		20.99	ºC
2411141402C	Turbidity		1.25	NTU
2411141404C	Atmospheric Pressure			psia
2411141404C	Conductivity		987	µS/cm
2411141404C	DTW			ft
2411141404C	Formation Pressure			psia
2411141404C	pH		7.64	NA
2411141404C	Temperature		21.1	ºC
2411141404C	Turbidity		1.13	NTU

Well ID	ST-1-541	Event Date	11/14/2024	
Sample	**Parameter**		**Result**	**Units**
2411140900C	Atmospheric Pressure			psia
2411140900C	Atmospheric Pressure			psia
2411140900C	Conductivity		1101	µS/cm
2411140900C	Conductivity			µS/cm
2411140900C	DTW			ft
2411140900C	DTW		476.73	ft
2411140900C	Formation Pressure			psia
2411140900C	Formation Pressure			psia
2411140900C	pH		7.23	NA
2411140900C	pH			NA
2411140900C	Temperature			ºC
2411140900C	Temperature		19.84	ºC
2411140900C	Turbidity			NTU
2411140900C	Turbidity		1.56	NTU
2411140902C	Atmospheric Pressure			psia
2411140902C	Atmospheric Pressure			psia
2411140902C	Conductivity			µS/cm
2411140902C	Conductivity		1105	µS/cm
2411140902C	DTW			ft
2411140902C	DTW			ft
2411140902C	Formation Pressure			psia
2411140902C	Formation Pressure			psia
2411140902C	pH		7.21	NA
2411140902C	pH			NA
2411140902C	Temperature			ºC
2411140902C	Temperature		19.85	ºC
2411140902C	Turbidity			NTU
2411140902C	Turbidity		1.5	NTU
2411140904C	Atmospheric Pressure			psia
2411140904C	Conductivity		1103	µS/cm
2411140904C	DTW			ft
2411140904C	Formation Pressure			psia
2411140904C	pH		7.24	NA
2411140904C	Temperature		19.85	ºC
2411140904C	Turbidity		1.52	NTU

Well ID	ST-1-630	Event Date	11/18/2024	
Sample	**Parameter**		**Result**	**Units**
2411181010A	Atmospheric Pressure			psia
2411181010A	Conductivity		1032.6	µS/cm
2411181010A	DTW			ft
2411181010A	Formation Pressure			psia
2411181010A	pH		7.36	NA
2411181010A	Temperature		19.74	ºC
2411181010A	Turbidity		3.6	NTU
2411181011A	Atmospheric Pressure			psia
2411181011A	Conductivity		1032.9	µS/cm
2411181011A	DTW			ft
2411181011A	Formation Pressure			psia
2411181011A	pH		7.38	NA
2411181011A	Temperature		19.83	ºC
2411181011A	Turbidity		3.47	NTU
2411181012A	Atmospheric Pressure			psia
2411181012A	Conductivity		1032.4	µS/cm
2411181012A	DTW			ft
2411181012A	Formation Pressure			psia
2411181012A	pH		7.4	NA
2411181012A	Temperature		19.87	ºC
2411181012A	Turbidity		3.5	NTU

Well ID	ST-3-486	Event Date	12/6/2024	
Sample	**Parameter**		**Result**	**Units**
2412060920C	Atmospheric Pressure			psia
2412060920C	Conductivity		945	µS/cm
2412060920C	DTW			ft
2412060920C	Formation Pressure			psia
2412060920C	pH		7.27	NA
2412060920C	Temperature		27.94	ºC
2412060920C	Turbidity		0.99	NTU
2412060922C	Atmospheric Pressure			psia
2412060922C	Conductivity		943	µS/cm
2412060922C	DTW			ft
2412060922C	Formation Pressure			psia
2412060922C	pH		7.23	NA
2412060922C	Temperature		27.93	ºC
2412060922C	Turbidity		0.97	NTU
2412060924C	Atmospheric Pressure			psia
2412060924C	Conductivity		945	µS/cm
2412060924C	DTW			ft
2412060924C	Formation Pressure			psia
2412060924C	pH		7.26	NA
2412060924C	Temperature		27.93	ºC
2412060924C	Turbidity		0.99	NTU

Well ID	ST-3-586	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412050930C	Atmospheric Pressure			psia
2412050930C	Conductivity		934	µS/cm
2412050930C	DTW			ft
2412050930C	Formation Pressure			psia
2412050930C	pH		7.16	NA
2412050930C	Temperature		19.52	ºC
2412050930C	Turbidity		0.81	NTU
2412050932C	Atmospheric Pressure			psia
2412050932C	Conductivity		936	µS/cm
2412050932C	DTW			ft
2412050932C	Formation Pressure			psia
2412050932C	pH		7.1	NA
2412050932C	Temperature		19.51	ºC
2412050932C	Turbidity		0.75	NTU
2412050934C	Atmospheric Pressure			psia
2412050934C	Conductivity		934	µS/cm
2412050934C	DTW			ft
2412050934C	Formation Pressure			psia
2412050934C	pH		7.13	NA
2412050934C	Temperature		19.51	ºC
2412050934C	Turbidity		0.79	NTU

Well ID	ST-3-666	Event Date	12/6/2024	
Sample	**Parameter**		**Result**	**Units**
2412061215C	Atmospheric Pressure			psia
2412061215C	Conductivity		908	µS/cm
2412061215C	DTW			ft
2412061215C	Formation Pressure			psia
2412061215C	pH		7.4	NA
2412061215C	Temperature		15.68	ºC
2412061215C	Turbidity		1.25	NTU
2412061217C	Atmospheric Pressure			psia
2412061217C	Conductivity		910	µS/cm
2412061217C	DTW			ft
2412061217C	Formation Pressure			psia
2412061217C	pH		7.37	NA
2412061217C	Temperature		15.66	ºC
2412061217C	Turbidity		1.19	NTU
2412061219C	Atmospheric Pressure			psia
2412061219C	Conductivity		910	µS/cm
2412061219C	DTW			ft
2412061219C	Formation Pressure			psia
2412061219C	pH		7.32	NA
2412061219C	Temperature		15.68	ºC
2412061219C	Turbidity		1.22	NTU

Well ID	ST-3-735	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412051420C	Atmospheric Pressure			psia
2412051420C	Conductivity		951	µS/cm
2412051420C	DTW			ft
2412051420C	Formation Pressure			psia
2412051420C	pH		6.91	NA
2412051420C	Temperature		20.75	ºC
2412051420C	Turbidity		2.48	NTU
2412051422C	Atmospheric Pressure			psia
2412051422C	Conductivity		950	µS/cm
2412051422C	DTW			ft
2412051422C	Formation Pressure			psia
2412051422C	pH		6.87	NA
2412051422C	Temperature		20.74	ºC
2412051422C	Turbidity		2.41	NTU
2412051424C	Atmospheric Pressure			psia
2412051424C	Conductivity		951	µS/cm
2412051424C	DTW			ft
2412051424C	Formation Pressure			psia
2412051424C	pH		6.9	NA
2412051424C	Temperature		20.74	ºC
2412051424C	Turbidity		2.45	NTU

Well ID	ST-4-481	Event Date	12/9/2024	
Sample	**Parameter**		**Result**	**Units**
2412091410C	Atmospheric Pressure			psia
2412091410C	Conductivity		975	µS/cm
2412091410C	DTW			ft
2412091410C	Formation Pressure			psia
2412091410C	pH		7.31	NA
2412091410C	Temperature		24.44	ºC
2412091410C	Turbidity		0.68	NTU
2412091412C	Atmospheric Pressure			psia
2412091412C	Conductivity		973	µS/cm
2412091412C	DTW			ft
2412091412C	Formation Pressure			psia
2412091412C	pH		7.3	NA
2412091412C	Temperature		24.43	ºC
2412091412C	Turbidity		0.66	NTU
2412091414C	Atmospheric Pressure			psia
2412091414C	Conductivity		974	µS/cm
2412091414C	DTW			ft
2412091414C	Formation Pressure			psia
2412091414C	pH		7.32	NA
2412091414C	Temperature		24.44	ºC
2412091414C	Turbidity		0.69	NTU

Well ID	ST-4-589	Event Date	11/5/2024	
Sample	**Parameter**		**Result**	**Units**
2411051345C	Atmospheric Pressure			psia
2411051345C	Conductivity		747.88	µS/cm
2411051345C	DTW		463.1	ft
2411051345C	Formation Pressure			psia
2411051345C	pH		9.51	NA
2411051345C	Temperature		21.18	ºC
2411051345C	Turbidity		0.41	NTU
2411051350C	Atmospheric Pressure			psia
2411051350C	Conductivity		744.97	µS/cm
2411051350C	DTW			ft
2411051350C	Formation Pressure			psia
2411051350C	pH		9.55	NA
2411051350C	Temperature		21	ºC
2411051350C	Turbidity		0.39	NTU
2411051355C	Atmospheric Pressure			psia
2411051355C	Conductivity		742.12	µS/cm
2411051355C	DTW			ft
2411051355C	Formation Pressure			psia
2411051355C	pH		9.5	NA
2411051355C	Temperature		21.23	ºC
2411051355C	Turbidity		0.42	NTU

Well ID **ST-4-690** **Event Date** **11/5/2024**

Sample	Parameter	Result	Units
2411050945C	Atmospheric Pressure		psia
2411050945C	Conductivity	786.36	µS/cm
2411050945C	DTW	462.45	ft
2411050945C	Formation Pressure		psia
2411050945C	pH	8.22	NA
2411050945C	Temperature	21.15	ºC
2411050945C	Turbidity	1.44	NTU
2411050950C	Atmospheric Pressure		psia
2411050950C	Conductivity	793.36	µS/cm
2411050950C	DTW		ft
2411050950C	Formation Pressure		psia
2411050950C	pH	8.2	NA
2411050950C	Temperature	20.95	ºC
2411050950C	Turbidity	1.37	NTU
2411050955C	Atmospheric Pressure		psia
2411050955C	Conductivity	791.39	µS/cm
2411050955C	DTW		ft
2411050955C	Formation Pressure		psia
2411050955C	pH	8.26	NA
2411050955C	Temperature	21.22	ºC
2411050955C	Turbidity	1.21	NTU

Well ID **ST-5-485** **Event Date** **11/12/2024**

Sample	Parameter	Result	Units
2411121335Y	Atmospheric Pressure	12.47	psia
2411121335Y	Conductivity	1003	µS/cm
2411121335Y	DTW	489.76	ft
2411121335Y	Formation Pressure		psia
2411121335Y	pH	8.11	NA
2411121335Y	Temperature	22.8	ºC
2411121335Y	Turbidity	1.19	NTU
2411121440Y	Atmospheric Pressure	12.46	psia
2411121440Y	Conductivity	995	µS/cm
2411121440Y	DTW	489.78	ft
2411121440Y	Formation Pressure		psia
2411121440Y	pH	8.14	NA
2411121440Y	Temperature	23.2	ºC
2411121440Y	Turbidity	1	NTU

Well ID **ST-5-655** **Event Date** **11/12/2024**

Sample	Parameter	Result	Units
24110121005Y	Atmospheric Pressure	12.5	psia
24110121005Y	Conductivity	819	µS/cm
24110121005Y	DTW	489.7	ft
24110121005Y	Formation Pressure		psia
24110121005Y	pH	7.88	NA
24110121005Y	Temperature	22.7	ºC
24110121005Y	Turbidity	1.03	NTU
24110121032Y	Atmospheric Pressure	12.48	psia
24110121032Y	Conductivity	825	µS/cm
24110121032Y	DTW	498.76	ft
24110121032Y	Formation Pressure		psia
24110121032Y	pH	7.93	NA
24110121032Y	Temperature	22.9	ºC
24110121032Y	Turbidity	0.88	NTU

Well ID **ST-6-528** **Event Date** **12/4/2024**

Sample	Parameter	Result	Units
2412041150B	Atmospheric Pressure		psia
2412041150B	Conductivity	1133	µS/cm
2412041150B	DTW		ft
2412041150B	Formation Pressure		psia
2412041150B	pH	7.57	NA
2412041150B	Temperature	19.6	ºC
2412041150B	Turbidity	1.71	NTU
2412041230B	Atmospheric Pressure		psia
2412041230B	Conductivity	11.41	µS/cm
2412041230B	DTW		ft
2412041230B	Formation Pressure		psia
2412041230B	pH	7.55	NA
2412041230B	Temperature	19.8	ºC
2412041230B	Turbidity	1.83	NTU

Well ID	ST-6-568	Event Date	12/4/2024	
Sample	**Parameter**		**Result**	**Units**
2412041155B	Atmospheric Pressure			psia
2412041155B	Conductivity		1106	µS/cm
2412041155B	DTW			ft
2412041155B	Formation Pressure			psia
2412041155B	pH		7.65	NA
2412041155B	Temperature		19.7	ºC
2412041155B	Turbidity		2.9	NTU
2412041300B	Atmospheric Pressure			psia
2412041300B	Conductivity		1108	µS/cm
2412041300B	DTW			ft
2412041300B	Formation Pressure			psia
2412041300B	pH		7.61	NA
2412041300B	Temperature		19.8	ºC
2412041300B	Turbidity		2.09	NTU

Well ID	ST-6-678	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412051120B	Atmospheric Pressure			psia
2412051120B	Conductivity		1056	µS/cm
2412051120B	DTW			ft
2412051120B	Formation Pressure			psia
2412051120B	pH		8.73	NA
2412051120B	Temperature		17.8	ºC
2412051120B	Turbidity		1.29	NTU
2412051155B	Atmospheric Pressure			psia
2412051155B	Conductivity		1049	µS/cm
2412051155B	DTW			ft
2412051155B	Formation Pressure			psia
2412051155B	pH		8.69	NA
2412051155B	Temperature		17.9	ºC
2412051155B	Turbidity		1.18	NTU

Well ID	ST-6-824	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412051122B	Atmospheric Pressure			psia
2412051122B	Conductivity		978	µS/cm
2412051122B	DTW			ft
2412051122B	Formation Pressure			psia
2412051122B	pH		8.9	NA
2412051122B	Temperature		17.8	ºC
2412051122B	Turbidity		1.4	NTU
2412051215B	Atmospheric Pressure			psia
2412051215B	Conductivity		941	µS/cm
2412051215B	DTW			ft
2412051215B	Formation Pressure			psia
2412051215B	pH		8.89	NA
2412051215B	Temperature		17.8	ºC
2412051215B	Turbidity		1.33	NTU

Well ID	ST-6-970	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412051126B	Atmospheric Pressure			psia
2412051126B	Conductivity		1067	µS/cm
2412051126B	DTW			ft
2412051126B	Formation Pressure			psia
2412051126B	pH		8.71	NA
2412051126B	Temperature		17.5	ºC
2412051126B	Turbidity		1.66	NTU
2412051242B	Atmospheric Pressure			psia
2412051242B	Conductivity		1071	µS/cm
2412051242B	DTW			ft
2412051242B	Formation Pressure			psia
2412051242B	pH		8.73	NA
2412051242B	Temperature		17.9	ºC
2412051242B	Turbidity		1.54	NTU

Well ID	ST-7-544	Event Date	1/6/2025	
Sample	**Parameter**		**Result**	**Units**
2501061215B	Atmospheric Pressure			psia
2501061215B	Conductivity		1109	µS/cm
2501061215B	DTW			ft
2501061215B	Formation Pressure			psia
2501061215B	pH		8.58	NA
2501061215B	Temperature		15.8	ºC
2501061215B	Turbidity		2.59	NTU
2501061244B	Atmospheric Pressure			psia
2501061244B	Conductivity		1111	µS/cm
2501061244B	DTW			ft
2501061244B	Formation Pressure			psia
2501061244B	pH		8.61	NA
2501061244B	Temperature		15.7	ºC
2501061244B	Turbidity		2.23	NTU

Well ID	ST-7-779	Event Date	1/6/2025	
Sample	**Parameter**		**Result**	**Units**
2501061223B	Atmospheric Pressure			psia
2501061223B	Conductivity		977	µS/cm
2501061223B	DTW			ft
2501061223B	Formation Pressure			psia
2501061223B	pH		8.87	NA
2501061223B	Temperature		14.4	ºC
2501061223B	Turbidity		1.6	NTU
2501061305B	Atmospheric Pressure			psia
2501061305B	Conductivity		994	µS/cm
2501061305B	DTW			ft
2501061305B	Formation Pressure			psia
2501061305B	pH		8.82	NA
2501061305B	Temperature		14.3	ºC
2501061305B	Turbidity		1.57	NTU

Well ID **ST-7-970** **Event Date** **1/6/2025**

Sample	Parameter	Result	Units
2501061230B	Atmospheric Pressure		psia
2501061230B	Conductivity	909	µS/cm
2501061230B	DTW		ft
2501061230B	Formation Pressure		psia
2501061230B	pH	8.89	NA
2501061230B	Temperature	13.4	ºC
2501061230B	Turbidity	1.11	NTU
2501061340B	Atmospheric Pressure		psia
2501061340B	Conductivity	911	µS/cm
2501061340B	DTW		ft
2501061340B	Formation Pressure		psia
2501061340B	pH	8.84	NA
2501061340B	Temperature	13.4	ºC
2501061340B	Turbidity	1.09	NTU

Well ID **WB-1-200** **Event Date** **11/20/2024**

Sample	Parameter	Result	Units
2411201320Y	Atmospheric Pressure	12.48	psia
2411201320Y	Conductivity	1150	µS/cm
2411201320Y	DTW	191.8	ft
2411201320Y	Formation Pressure		psia
2411201320Y	pH	7.42	NA
2411201320Y	Temperature	19.5	ºC
2411201320Y	Turbidity	1.26	NTU
2411201410Y	Atmospheric Pressure	12.5	psia
2411201410Y	Conductivity	1245	µS/cm
2411201410Y	DTW	191.50	ft
2411201410Y	Formation Pressure		psia
2411201410Y	pH	7.38	NA
2411201410Y	Temperature	18.6	ºC
2411201410Y	Turbidity	1.37	NTU

Well ID	WW-1-452	Event Date	12/4/2024	
Sample	**Parameter**		**Result**	**Units**
2412041415C	Atmospheric Pressure			psia
2412041415C	Conductivity		1010	µS/cm
2412041415C	DTW			ft
2412041415C	Formation Pressure			psia
2412041415C	pH		7.26	NA
2412041415C	Temperature		21.31	ºC
2412041415C	Turbidity		0.36	NTU
2412041417C	Atmospheric Pressure			psia
2412041417C	Conductivity		1012	µS/cm
2412041417C	DTW			ft
2412041417C	Formation Pressure			psia
2412041417C	pH		7.23	NA
2412041417C	Temperature		21.3	ºC
2412041417C	Turbidity		0.39	NTU
2412041419C	Atmospheric Pressure			psia
2412041419C	Conductivity		1010	µS/cm
2412041419C	DTW			ft
2412041419C	Formation Pressure			psia
2412041419C	pH		7.24	NA
2412041419C	Temperature		21.3	ºC
2412041419C	Turbidity		0.35	NTU

Well ID	WW-2-489	Event Date	12/6/2024	
Sample	**Parameter**		**Result**	**Units**
2412061011A	Atmospheric Pressure			psia
2412061011A	Conductivity		828.51	µS/cm
2412061011A	DTW		19	ft
2412061011A	Formation Pressure			psia
2412061011A	pH		8.04	NA
2412061011A	Temperature		19.33	ºC
2412061011A	Turbidity		0.17	NTU
2412061012A	Atmospheric Pressure			psia
2412061012A	Conductivity		827.04	µS/cm
2412061012A	DTW			ft
2412061012A	Formation Pressure			psia
2412061012A	pH		8.08	NA
2412061012A	Temperature		19.23	ºC
2412061012A	Turbidity		0.45	NTU
2412061013A	Atmospheric Pressure			psia
2412061013A	Conductivity		832.73	µS/cm
2412061013A	DTW			ft
2412061013A	Formation Pressure			psia
2412061013A	pH		8.03	NA
2412061013A	Temperature		19.47	ºC
2412061013A	Turbidity		0.25	NTU

Well ID	WW-2-664	Event Date	12/6/2024	
Sample	**Parameter**		**Result**	**Units**
2412061136A	Atmospheric Pressure			psia
2412061136A	Conductivity		837.43	µS/cm
2412061136A	DTW		19.3	ft
2412061136A	Formation Pressure			psia
2412061136A	pH		8.07	NA
2412061136A	Temperature		19.83	ºC
2412061136A	Turbidity		0.67	NTU
2412061137A	Atmospheric Pressure			psia
2412061137A	Conductivity		836.51	µS/cm
2412061137A	DTW			ft
2412061137A	Formation Pressure			psia
2412061137A	pH		8.11	NA
2412061137A	Temperature		19.75	ºC
2412061137A	Turbidity		0.67	NTU
2412061138A	Atmospheric Pressure			psia
2412061138A	Conductivity		839.44	µS/cm
2412061138A	DTW			ft
2412061138A	Formation Pressure			psia
2412061138A	pH		8.08	NA
2412061138A	Temperature		19.86	ºC
2412061138A	Turbidity		1.11	NTU

Well ID	WW-3-469	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412051310Y	Atmospheric Pressure		12.57	psia
2412051310Y	Conductivity		1111	µS/cm
2412051310Y	DTW		414.86	ft
2412051310Y	Formation Pressure			psia
2412051310Y	pH		8.79	NA
2412051310Y	Temperature		22.3	ºC
2412051310Y	Turbidity		1.33	NTU
2412051342Y	Atmospheric Pressure		12.59	psia
2412051342Y	Conductivity		1119	µS/cm
2412051342Y	DTW		414.96	ft
2412051342Y	Formation Pressure			psia
2412051342Y	pH		8.85	NA
2412051342Y	Temperature		22.5	ºC
2412051342Y	Turbidity		1.06	NTU

Well ID	WW-3-569	Event Date	12/4/2024	
Sample	**Parameter**		**Result**	**Units**
2412050855Y	Atmospheric Pressure		12.6	psia
2412050855Y	Conductivity		1090	µS/cm
2412050855Y	DTW		414.75	ft
2412050855Y	Formation Pressure			psia
2412050855Y	pH		9.07	NA
2412050855Y	Temperature		19.8	ºC
2412050855Y	Turbidity		2.66	NTU
2412051000Y	Atmospheric Pressure		12.58	psia
2412051000Y	Conductivity		1075	µS/cm
2412051000Y	DTW		414.86	ft
2412051000Y	Formation Pressure			psia
2412051000Y	pH		8.89	NA
2412051000Y	Temperature		19.6	ºC
2412051000Y	Turbidity		1.84	NTU

Well ID	WW-4-419	Event Date	11/12/2024	
Sample	**Parameter**		**Result**	**Units**
2411121125B	Atmospheric Pressure			psia
2411121125B	Conductivity		1057	µS/cm
2411121125B	DTW			ft
2411121125B	Formation Pressure			psia
2411121125B	pH		8.82	NA
2411121125B	Temperature		22.5	ºC
2411121125B	Turbidity		2.11	NTU
2411121200B	Atmospheric Pressure			psia
2411121200B	Conductivity		1051	µS/cm
2411121200B	DTW			ft
2411121200B	Formation Pressure			psia
2411121200B	pH		8.78	NA
2411121200B	Temperature		22.5	ºC
2411121200B	Turbidity		2.04	NTU

Well ID	WW-4-589	Event Date	11/12/2024	
Sample	**Parameter**		**Result**	**Units**
2411121140B	Atmospheric Pressure			psia
2411121140B	Conductivity		1007	µS/cm
2411121140B	DTW			ft
2411121140B	Formation Pressure			psia
2411121140B	pH		8.41	NA
2411121140B	Temperature		21.5	ºC
2411121140B	Turbidity		1.9	NTU
2411121220B	Atmospheric Pressure			psia
2411121220B	Conductivity		1010	µS/cm
2411121220B	DTW			ft
2411121220B	Formation Pressure			psia
2411121220B	pH		8.36	NA
2411121220B	Temperature		21.5	ºC
2411121220B	Turbidity		1.91	NTU

Well ID	WW-4-848	Event Date	11/13/2024	
Sample	**Parameter**		**Result**	**Units**
2411131120B	Atmospheric Pressure			psia
2411131120B	Conductivity		858	µS/cm
2411131120B	DTW			ft
2411131120B	Formation Pressure			psia
2411131120B	pH		7.24	NA
2411131120B	Temperature		19.8	ºC
2411131120B	Turbidity		1.16	NTU
2411131157B	Atmospheric Pressure			psia
2411131157B	Conductivity		861	µS/cm
2411131157B	DTW			ft
2411131157B	Formation Pressure			psia
2411131157B	pH		7.21	NA
2411131157B	Temperature		19.8	ºC
2411131157B	Turbidity		1.13	NTU

Well ID	WW-4-948	Event Date	11/13/2024	
Sample	**Parameter**		**Result**	**Units**
2411131130B	Atmospheric Pressure			psia
2411131130B	Conductivity		1078	µS/cm
2411131130B	DTW			ft
2411131130B	Formation Pressure			psia
2411131130B	pH		7.65	NA
2411131130B	Temperature		19.4	ºC
2411131130B	Turbidity		2.42	NTU
2411131228B	Atmospheric Pressure			psia
2411131228B	Conductivity		1072	µS/cm
2411131228B	DTW			ft
2411131228B	Formation Pressure			psia
2411131228B	pH		7.62	NA
2411131228B	Temperature		19.4	ºC
2411131228B	Turbidity		2.38	NTU

Well ID	WW-5-459	Event Date	1/7/2025	
Sample	**Parameter**		**Result**	**Units**
2501071130B	Atmospheric Pressure			psia
2501071130B	Conductivity		1090	µS/cm
2501071130B	DTW			ft
2501071130B	Formation Pressure			psia
2501071130B	pH		7.78	NA
2501071130B	Temperature		18.3	ºC
2501071130B	Turbidity		0.92	NTU
2501071205B	Atmospheric Pressure			psia
2501071205B	Conductivity		1084	µS/cm
2501071205B	DTW			ft
2501071205B	Formation Pressure			psia
2501071205B	pH		7.69	NA
2501071205B	Temperature		19.2	ºC
2501071205B	Turbidity		0.81	NTU

Well ID	WW-5-579	Event Date	1/7/2025	
Sample	**Parameter**		**Result**	**Units**
2501071135B	Atmospheric Pressure			psia
2501071135B	Conductivity		1035	µS/cm
2501071135B	DTW			ft
2501071135B	Formation Pressure			psia
2501071135B	pH		7.75	NA
2501071135B	Temperature		19.5	ºC
2501071135B	Turbidity		0.76	NTU
2501071230B	Atmospheric Pressure			psia
2501071230B	Conductivity		1038	µS/cm
2501071230B	DTW			ft
2501071230B	Formation Pressure			psia
2501071230B	pH		7.65	NA
2501071230B	Temperature		19.3	ºC
2501071230B	Turbidity		0.69	NTU

Well ID	WW-5-809	Event Date	1/13/2025	
Sample	**Parameter**		**Result**	**Units**
2501131105B	Atmospheric Pressure			psia
2501131105B	Conductivity		952	µS/cm
2501131105B	DTW			ft
2501131105B	Formation Pressure			psia
2501131105B	pH		8.43	NA
2501131105B	Temperature		23.2	ºC
2501131105B	Turbidity		0.43	NTU
2501131145B	Atmospheric Pressure			psia
2501131145B	Conductivity		942	µS/cm
2501131145B	DTW			ft
2501131145B	Formation Pressure			psia
2501131145B	pH		8.36	NA
2501131145B	Temperature		23.7	ºC
2501131145B	Turbidity		0.45	NTU

Well ID	WW-5-909	Event Date	1/13/2025	
Sample	**Parameter**		**Result**	**Units**
2501131200B	Atmospheric Pressure			psia
2501131200B	Conductivity		1303	µS/cm
2501131200B	DTW			ft
2501131200B	Formation Pressure			psia
2501131200B	pH		8.19	NA
2501131200B	Temperature		23.4	ºC
2501131200B	Turbidity		0.54	NTU
2501131210B	Atmospheric Pressure			psia
2501131210B	Conductivity		1291	µS/cm
2501131210B	DTW			ft
2501131210B	Formation Pressure			psia
2501131210B	pH		8.11	NA
2501131210B	Temperature		23.9	ºC
2501131210B	Turbidity		0.47	NTU

Appendix A.2
Monitor Well Analytical Data

Detections for Monitoring Well Sampling Events in this Reporting Period

Analytical Results for Sampling Events at 100-001-GW

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	8260	2411150800A	1,1-Dichloroethane (1,1-DCA)	0.32	ug/L	1.0	0.20		J
11/15/2024	8260	2411150800A	1,1-Dichloroethene	1.4	ug/L	1.0	0.20		
11/15/2024	8260	2411150800A	Carbon Disulfide	0.6	ug/L	1.0	0.42		J
11/15/2024	8260	2411150800A	Dichlorofluoromethane (CFC 21)	1	ug/L	1.0	0.20		
11/15/2024	8260	2411150800A	Dichloromethane	0.66	ug/L	1.0	0.65		J
11/15/2024	8260	2411150800A	Trichlorofluoromethane (CFC 11)	46	ug/L	1.0	0.24		
11/15/2024	8260	2411150800A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.37	ug/L	1.0	0.20		J
11/15/2024	8260	2411150800A	1,1,2-Trichloro-1,2,2-Trifluoroethane	12	ug/L	1.0	0.20		
11/15/2024	8260	2411150802A	Carbon Disulfide	0.52	ug/L	1.0	0.42		J
11/15/2024	8260	2411150802A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.37	ug/L	1.0	0.20		J
11/15/2024	8260	2411150802A	Trichlorofluoromethane (CFC 11)	42	ug/L	1.0	0.24		
11/15/2024	8260	2411150802A	Dichlorofluoromethane (CFC 21)	0.98	ug/L	1.0	0.20		J
11/15/2024	8260	2411150802A	1,1-Dichloroethene	1.3	ug/L	1.0	0.20		
11/15/2024	8260	2411150802A	1,1,2-Trichloro-1,2,2-Trifluoroethane	12	ug/L	1.0	0.20		
11/15/2024	8260	2411150802A	Dichloromethane	0.66	ug/L	1.0	0.65		J
11/15/2024	8270	2411150804A	Butane, 2-methoxy-2-methyl-	650	ug/L	NA	NA		J TIC
11/15/2024	METALS	2411150805A	Molybdenum, Total	0.028	mg/L	0.025	0.003		
11/15/2024	METALS	2411150805A	Potassium, Total	2.3	mg/L	2	0.4		
11/15/2024	METALS	2411150805A	Zinc, Total	0.019	mg/L	0.02	0.003		J
11/15/2024	METALS	2411150805A	Vanadium, Total	0.018	mg/L	0.05	0.0007		J
11/15/2024	METALS	2411150805A	Sodium, Total	73.4	mg/L	1	0.3		
11/15/2024	METALS	2411150805A	Nickel, Total	0.015	mg/L	0.04	0.003		J
11/15/2024	METALS	2411150805A	Arsenic, Total	0.0046	mg/L	0.001	0.0004		
11/15/2024	METALS	2411150805A	Chromium, Total	0.004	mg/L	0.01	0.002		J
11/15/2024	METALS	2411150805A	Calcium, Total	51.1	mg/L	1	0.3		
11/15/2024	METALS	2411150805A	Antimony, Total	0.0005	mg/L	0.001	0.0002		J
11/15/2024	METALS	2411150805A	Boron, Total	0.1	mg/L	0.2	0.02		J
11/15/2024	METALS	2411150805A	Magnesium, Total	35.7	mg/L	1	0.03		
11/15/2024	METALS	2411150805A	Barium, Total	0.022	mg/L	0.02	0.003		
11/15/2024	METALS	2411150805A	Strontium, Total	2.56	mg/L	0.1	0.002		
11/15/2024	ANIONS	2411150806A	Sulfate	168	mg/L	20	4		
11/15/2024	ANIONS	2411150806A	Fluoride, undistilled	0.55	mg/L	0.1	0.01		
11/15/2024	ANIONS	2411150806A	Alkalinity, Total as CaCO3	176	mg/L	2	1.8		
11/15/2024	ANIONS	2411150806A	Chloride	43.4	mg/L	2	0.5		
11/15/2024	SM2540C	2411150807A	Total Dissolved Solids (TDS)	507	mg/L	10	9		
11/15/2024	6850	2411150808A	Perchlorate	0.46	ug/L	0.20	0.047		

Analytical Results for Sampling Events at 100-001-GW

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	353.2	2411150809A	Nitrate+Nitrite as Nitrogen	1.48	mg/L	0.05	0.002		

Analytical Results for Sampling Events at 100-D-176

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	8260	2411150750C	Unknown	5.2	ug/L	NA	NA		J TIC
11/15/2024	8260	2411150750C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.78	ug/L	1.0	0.20		J
11/15/2024	8260	2411150750C	1,1,2-Trichloro-1,2,2-Trifluoroethane	39	ug/L	1.0	0.20		
11/15/2024	8260	2411150750C	Trichloroethene (TCE)	4.6	ug/L	1.0	0.20		
11/15/2024	607	2411150752C	Bromacil	0.08	µg/L	0.0098	0.0049	99	
11/15/2024	8270	2411150753C	Butane, 2-methoxy-2-methyl-	500	ug/L	NA	NA		J TIC
11/15/2024	8270	2411150753C	Unknown	13	ug/L	NA	NA		J TIC
11/15/2024	8270	2411150753C	1H-Benzotriazole, 4-methyl-	17	ug/L	NA	NA		J TIC
11/15/2024	METALS	2411150756C	Iron, Total	0.21	mg/L	0.1	0.07		
11/15/2024	METALS	2411150756C	Antimony, Total	0.0003	mg/L	0.001	0.0002		J
11/15/2024	METALS	2411150756C	Arsenic, Total	0.0012	mg/L	0.001	0.0004		
11/15/2024	METALS	2411150756C	Barium, Total	0.035	mg/L	0.02	0.003		
11/15/2024	METALS	2411150756C	Boron, Total	1.56	mg/L	0.2	0.02		
11/15/2024	METALS	2411150756C	Calcium, Total	166	mg/L	1	0.3		
11/15/2024	METALS	2411150756C	Magnesium, Total	133	mg/L	1	0.03		
11/15/2024	METALS	2411150756C	Manganese, Total	0.07	mg/L	0.01	0.004		
11/15/2024	METALS	2411150756C	Molybdenum, Total	0.06	mg/L	0.025	0.003		
11/15/2024	METALS	2411150756C	Nickel, Total	0.298	mg/L	0.04	0.003		
11/15/2024	METALS	2411150756C	Potassium, Total	5.5	mg/L	2	0.4		
11/15/2024	METALS	2411150756C	Sodium, Total	222	mg/L	10	3		
11/15/2024	METALS	2411150756C	Strontium, Total	7.06	mg/L	0.1	0.002		
11/15/2024	METALS	2411150756C	Vanadium, Total	0.002	mg/L	0.05	0.0007		J
11/15/2024	METALS	2411150756C	Chromium, Total	0.035	mg/L	0.01	0.002		
11/15/2024	ANIONS	2411150757C	Alkalinity, Total as CaCO3	210	mg/L	2	1.8		
11/15/2024	ANIONS	2411150757C	Chloride	354	mg/L	20	5		
11/15/2024	ANIONS	2411150757C	Fluoride, undistilled	1.2	mg/L	0.1	0.01		
11/15/2024	ANIONS	2411150757C	Sulfate	723	mg/L	20	4		
11/15/2024	SM2540C	2411150758C	Total Dissolved Solids (TDS)	1880	mg/L	15	14		
11/15/2024	351.2	2411150759C	Nitrogen, Total Kjeldahl (TKN)	0.22	mg/L	0.2	0.15		
11/15/2024	300.0	2411150800C	Chloride	333	mg/L	10	3		
11/15/2024	353.2	2411150801C	Nitrate+Nitrite as Nitrogen	10	mg/L	2.5	0.08		

Analytical Results for Sampling Events at 100-F-358

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/14/2025	8260_LL	2501140955C	Unknown	39	ug/L	NA	NA		J TIC
1/14/2025	NDMA_LL	2501140958C	N-Nitrosodimethylamine	0.4	ng/L	0.47	0.34		A J FB
1/14/2025	8270	2501141004C	Cyclohexane	21	ug/L	NA	NA		J TIC RB
1/14/2025	8270	2501141004C	Butane, 2-methoxy-2-methyl-	430	ug/L	NA	NA		J TIC RB
1/14/2025	8270	2501141004C	Unknown	4.2	ug/L	NA	NA		J TIC
1/14/2025	8270	2501141004C	Squalene	4.2	ug/L	NA	NA		J TIC
1/14/2025	METALS	2501141007C	Calcium, Total	158	mg/L	1.0	0.3		
1/14/2025	METALS	2501141007C	Zinc, Total	0.004	mg/L	0.020	0.003		J
1/14/2025	METALS	2501141007C	Strontium, Total	6.55	mg/L	0.10	0.002		
1/14/2025	METALS	2501141007C	Sodium, Total	41.6	mg/L	1.0	0.3		
1/14/2025	METALS	2501141007C	Potassium, Total	3.4	mg/L	2.0	0.4		
1/14/2025	METALS	2501141007C	Nickel, Total	0.035	mg/L	0.040	0.003		J
1/14/2025	METALS	2501141007C	Magnesium, Total	73.2	mg/L	1.0	0.03		
1/14/2025	METALS	2501141007C	Manganese, Total	0.016	mg/L	0.010	0.004		
1/14/2025	METALS	2501141007C	Boron, Total	0.07	mg/L	0.20	0.02		J
1/14/2025	METALS	2501141007C	Barium, Total	0.03	mg/L	0.020	0.003		
1/14/2025	METALS	2501141007C	Arsenic, Total	0.0022	mg/L	0.0010	0.0004		
1/14/2025	METALS	2501141007C	Molybdenum, Total	0.012	mg/L	0.025	0.003		J
1/14/2025	ANIONS	2501141008C	Sulfate	448	mg/L	20	4		
1/14/2025	ANIONS	2501141008C	Alkalinity, Total as CaCO3	225	mg/L	2.0	1.8		
1/14/2025	ANIONS	2501141008C	Chloride	33.5	mg/L	2.0	0.5		
1/14/2025	ANIONS	2501141008C	Fluoride, undistilled	1.14	mg/L	0.10	0.010		
1/14/2025	SM2540C	2501141009C	Total Dissolved Solids (TDS)	997	mg/L	10	9		
1/14/2025	353.2	2501141011C	Nitrate+Nitrite as Nitrogen	0.005	mg/L	0.050	0.002		J

Analytical Results for Sampling Events at 100-G-223

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/14/2025	8260_LL	2501141415C	Unknown	44	ug/L	NA	NA		J TIC
1/14/2025	8270	2501141425C	Butane, 2-methoxy-2-methyl-	390	ug/L	NA	NA		J TIC RB
1/14/2025	8270	2501141425C	Cyclohexane	21	ug/L	NA	NA		J TIC RB
1/14/2025	METALS	2501141428C	Magnesium, Total	68.6	mg/L	1.0	0.03		
1/14/2025	METALS	2501141428C	Arsenic, Total	0.0005	mg/L	0.0010	0.0004		J
1/14/2025	METALS	2501141428C	Barium, Total	0.021	mg/L	0.020	0.003		
1/14/2025	METALS	2501141428C	Boron, Total	0.07	mg/L	0.20	0.02		J
1/14/2025	METALS	2501141428C	Calcium, Total	123	mg/L	1.0	0.3		
1/14/2025	METALS	2501141428C	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
1/14/2025	METALS	2501141428C	Potassium, Total	2.7	mg/L	2.0	0.4		
1/14/2025	METALS	2501141428C	Sodium, Total	40.8	mg/L	1.0	0.3		
1/14/2025	METALS	2501141428C	Strontium, Total	3.8	mg/L	0.10	0.002		
1/14/2025	METALS	2501141428C	Nickel, Total	0.028	mg/L	0.040	0.003		J
1/14/2025	ANIONS	2501141429C	Chloride	37.4	mg/L	2.0	0.5		
1/14/2025	ANIONS	2501141429C	Fluoride, undistilled	1.13	mg/L	0.10	0.010		
1/14/2025	ANIONS	2501141429C	Sulfate	316	mg/L	20	4		
1/14/2025	ANIONS	2501141429C	Alkalinity, Total as CaCO3	273	mg/L	2.0	1.8		
1/14/2025	SM2540C	2501141430C	Total Dissolved Solids (TDS)	822	mg/L	10	9		
1/14/2025	6850	2501141431C	Perchlorate	0.059	ug/L	0.20	0.047		J
1/14/2025	353.2	2501141432C	Nitrate+Nitrite as Nitrogen	0.083	mg/L	0.050	0.002		

Analytical Results for Sampling Events at 200-G-175

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/4/2024	8260	2412041000Y	Trichloroethene (TCE)	1.2	ug/L	1.0	0.20		
12/4/2024	8260	2412041000Y	Trichlorofluoromethane (CFC 11)	2.6	ug/L	1.0	0.24		QD
12/4/2024	8260	2412041000Y	Unknown	35	ug/L	NA	NA		J
12/4/2024	8260	2412041000Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.9	ug/L	1.0	0.20		
12/4/2024	8260	2412041001Y	Trichlorofluoromethane (CFC 11)	4.1	ug/L	1.0	0.24		QD
12/4/2024	8260	2412041001Y	Unknown	40	ug/L	NA	NA		J
12/4/2024	8260	2412041001Y	Trichloroethene (TCE)	1.4	ug/L	1.0	0.20		
12/4/2024	8260	2412041001Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.6	ug/L	1.0	0.20		
12/4/2024	607	2412041002Y	Bromacil	0.2	µg/L	0.01	0.005	86	
12/4/2024	METALS	2412041025Y	Calcium, Total	122	mg/L	1.0	0.3		
12/4/2024	METALS	2412041025Y	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
12/4/2024	METALS	2412041025Y	Strontium, Total	1.79	mg/L	0.10	0.002		
12/4/2024	METALS	2412041025Y	Sodium, Total	46	mg/L	1.0	0.3		
12/4/2024	METALS	2412041025Y	Potassium, Total	10.8	mg/L	2.0	0.4		
12/4/2024	METALS	2412041025Y	Nickel, Total	0.025	mg/L	0.040	0.003		J
12/4/2024	METALS	2412041025Y	Magnesium, Total	64.7	mg/L	1.0	0.03		
12/4/2024	METALS	2412041025Y	Zinc, Total	0.019	mg/L	0.020	0.003		J
12/4/2024	METALS	2412041025Y	Boron, Total	0.12	mg/L	0.20	0.02		J
12/4/2024	METALS	2412041025Y	Barium, Total	0.024	mg/L	0.020	0.003		
12/4/2024	METALS	2412041025Y	Arsenic, Total	0.001	mg/L	0.0010	0.0004		
12/4/2024	METALS	2412041025Y	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
12/4/2024	METALS	2412041025Y	Molybdenum, Total	0.012	mg/L	0.025	0.003		J

Analytical Results for Sampling Events at 200-G-220

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/3/2024	8260	2412031410Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.53	ug/L	1.0	0.20		J
12/3/2024	8260	2412031410Y	Unknown	40	ug/L	NA	NA		J TIC
12/3/2024	8260	2412031410Y	Trichlorofluoromethane (CFC 11)	1.3	ug/L	1.0	0.24		
12/3/2024	607	2412031411Y	Bromacil	0.01	µg/L	0.0094	0.0047	86	
12/3/2024	METALS	2412031445Y	Strontium, Total	9.77	mg/L	0.10	0.002		
12/3/2024	METALS	2412031445Y	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
12/3/2024	METALS	2412031445Y	Sodium, Total	35.3	mg/L	1.0	0.3		
12/3/2024	METALS	2412031445Y	Potassium, Total	3.8	mg/L	2.0	0.4		
12/3/2024	METALS	2412031445Y	Nickel, Total	0.025	mg/L	0.040	0.003		J
12/3/2024	METALS	2412031445Y	Molybdenum, Total	0.005	mg/L	0.025	0.003		J
12/3/2024	METALS	2412031445Y	Magnesium, Total	86	mg/L	1.0	0.03		
12/3/2024	METALS	2412031445Y	Calcium, Total	174	mg/L	1.0	0.3		
12/3/2024	METALS	2412031445Y	Boron, Total	0.08	mg/L	0.20	0.02		J
12/3/2024	METALS	2412031445Y	Barium, Total	0.026	mg/L	0.020	0.003		
12/3/2024	METALS	2412031445Y	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
12/3/2024	METALS	2412031445Y	Manganese, Total	0.006	mg/L	0.010	0.004		J
12/3/2024	METALS	2412031445Y	Zinc, Total	0.023	mg/L	0.020	0.003		

Analytical Results for Sampling Events at 200-G-340

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/3/2024	8260	2412031015Y	Unknown	41	ug/L	NA	NA		J TIC
12/3/2024	METALS	2412031017Y	Iron, Total	0.36	mg/L	0.10	0.07		
12/3/2024	METALS	2412031017Y	Zinc, Total	0.014	mg/L	0.020	0.003		J EB
12/3/2024	METALS	2412031017Y	Vanadium, Total	0.0007	mg/L	0.050	0.0007		J
12/3/2024	METALS	2412031017Y	Strontium, Total	11.8	mg/L	1.0	0.02		
12/3/2024	METALS	2412031017Y	Sodium, Total	33.7	mg/L	1.0	0.3		
12/3/2024	METALS	2412031017Y	Potassium, Total	2.4	mg/L	2.0	0.4		
12/3/2024	METALS	2412031017Y	Nickel, Total	0.026	mg/L	0.040	0.003		J
12/3/2024	METALS	2412031017Y	Molybdenum, Total	0.003	mg/L	0.025	0.003		J
12/3/2024	METALS	2412031017Y	Magnesium, Total	109	mg/L	1.0	0.03		
12/3/2024	METALS	2412031017Y	Calcium, Total	227	mg/L	1.0	0.3		
12/3/2024	METALS	2412031017Y	Barium, Total	0.019	mg/L	0.020	0.003		J
12/3/2024	METALS	2412031017Y	Manganese, Total	0.008	mg/L	0.010	0.004		J
12/3/2024	METALS	2412031017Y	Boron, Total	0.06	mg/L	0.20	0.02		J
12/3/2024	ANIONS	2412031045Y	Chloride	34.2	mg/L	2.0	0.5		
12/3/2024	ANIONS	2412031045Y	Fluoride, undistilled	1	mg/L	0.10	0.010		
12/3/2024	ANIONS	2412031045Y	Sulfate	870	mg/L	20	4		
12/3/2024	ANIONS	2412031045Y	Alkalinity, Total as CaCO3	243	mg/L	2.0	1.8		
12/3/2024	SM2540C	2412031046Y	Total Dissolved Solids (TDS)	1500	mg/L	11	10		
12/3/2024	353.2	2412031048Y	Nitrate+Nitrite as Nitrogen	0.005	mg/L	0.050	0.002		J

Analytical Results for Sampling Events at 200-G-420

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/2/2024	8260	2412021425Y	Unknown	41	ug/L	NA	NA		J TIC
12/2/2024	METALS	2412021427Y	Iron, Total	0.18	mg/L	0.10	0.07		
12/2/2024	METALS	2412021427Y	Barium, Total	0.01	mg/L	0.020	0.003		J
12/2/2024	METALS	2412021427Y	Calcium, Total	381	mg/L	10	3		
12/2/2024	METALS	2412021427Y	Sodium, Total	33.5	mg/L	1.0	0.3		
12/2/2024	METALS	2412021427Y	Magnesium, Total	131	mg/L	1.0	0.03		
12/2/2024	METALS	2412021427Y	Manganese, Total	0.012	mg/L	0.010	0.004		
12/2/2024	METALS	2412021427Y	Nickel, Total	0.023	mg/L	0.040	0.003		J
12/2/2024	METALS	2412021427Y	Potassium, Total	2.3	mg/L	2.0	0.4		
12/2/2024	METALS	2412021427Y	Silver, Total	0.0006	mg/L	0.010	0.0006		J
12/2/2024	METALS	2412021427Y	Strontium, Total	13.5	mg/L	1.0	0.02		
12/2/2024	METALS	2412021427Y	Boron, Total	0.07	mg/L	0.20	0.02		J
12/2/2024	METALS	2412021427Y	Zinc, Total	0.022	mg/L	0.020	0.003		

Analytical Results for Sampling Events at 200-G-495

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/2/2024	8260	2412021035Y	Unknown	40	ug/L	NA	NA		J TIC
12/2/2024	METALS	2412021037Y	Potassium, Total	2.3	mg/L	2.0	0.4		
12/2/2024	METALS	2412021037Y	Zinc, Total	0.026	mg/L	0.020	0.003		
12/2/2024	METALS	2412021037Y	Sodium, Total	34	mg/L	1.0	0.3		
12/2/2024	METALS	2412021037Y	Nickel, Total	0.025	mg/L	0.040	0.003		J
12/2/2024	METALS	2412021037Y	Manganese, Total	0.01	mg/L	0.010	0.004		J
12/2/2024	METALS	2412021037Y	Magnesium, Total	139	mg/L	1.0	0.03		
12/2/2024	METALS	2412021037Y	Calcium, Total	497	mg/L	10	3		
12/2/2024	METALS	2412021037Y	Boron, Total	0.08	mg/L	0.20	0.02		J
12/2/2024	METALS	2412021037Y	Barium, Total	0.012	mg/L	0.020	0.003		J
12/2/2024	METALS	2412021037Y	Strontium, Total	13.9	mg/L	1.0	0.02		

Analytical Results for Sampling Events at 200-H-225

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/20/2024	SM2540C	2411200935Y	Total Dissolved Solids (TDS)	867	mg/L	10	9		
11/20/2024	351.2	2411200936Y	Nitrogen, Total Kjeldahl (TKN)	0.22	mg/L	0.20	0.15		
11/20/2024	300.0	2411200937Y	Chloride	35	mg/L	2.0	0.5		
11/20/2024	353.2	2411200938Y	Nitrate+Nitrite as Nitrogen	0.309	mg/L	0.050	0.002		

Analytical Results for Sampling Events at 200-I-300

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	8260	2411181315Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	20	ug/L	1.0	0.20		
11/18/2024	8260	2411181315Y	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	31	ug/L	1.0	0.20		
11/18/2024	8260	2411181315Y	cis-1,2-Dichloroethene	0.62	ug/L	1.0	0.23		J
11/18/2024	8260	2411181315Y	Trichlorofluoromethane (CFC 11)	0.37	ug/L	1.0	0.24		J
11/18/2024	8260	2411181315Y	Trichloroethene (TCE)	34	ug/L	1.0	0.20		
11/18/2024	8260	2411181315Y	Toluene	0.23	ug/L	1.0	0.20		J
11/18/2024	8260	2411181315Y	Tetrahydrofuran (THF)	40	ug/L	5.0	1.7		
11/18/2024	8260	2411181315Y	Tetrachloroethene (PCE)	0.61	ug/L	1.0	0.21		J
11/18/2024	8260	2411181315Y	Dichlorofluoromethane (CFC 21)	6.9	ug/L	1.0	0.20		
11/18/2024	8260	2411181315Y	Benzene	0.55	ug/L	1.0	0.20		J
11/18/2024	8260	2411181316Y	Benzene	0.51	ug/L	1.0	0.20		J
11/18/2024	8260	2411181316Y	Dichlorofluoromethane (CFC 21)	7	ug/L	1.0	0.20		
11/18/2024	8260	2411181316Y	Tetrachloroethene (PCE)	0.54	ug/L	1.0	0.21		J
11/18/2024	8260	2411181316Y	Tetrahydrofuran (THF)	42	ug/L	5.0	1.7		
11/18/2024	8260	2411181316Y	Trichloroethene (TCE)	31	ug/L	1.0	0.20		
11/18/2024	8260	2411181316Y	Trichlorofluoromethane (CFC 11)	0.42	ug/L	1.0	0.24		J
11/18/2024	8260	2411181316Y	cis-1,2-Dichloroethene	0.61	ug/L	1.0	0.23		J
11/18/2024	8260	2411181316Y	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	31	ug/L	1.0	0.20		
11/18/2024	8260	2411181316Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	19	ug/L	1.0	0.20		
11/18/2024	607	2411181317Y	Bromacil	0.02	µg/L	0.0098	0.0049	104	
11/18/2024	METALS	2411181340Y	Strontium, Total	2.61	mg/L	0.10	0.002		
11/18/2024	METALS	2411181340Y	Zinc, Total	0.013	mg/L	0.020	0.003		J
11/18/2024	METALS	2411181340Y	Nickel, Total	0.006	mg/L	0.040	0.003		J
11/18/2024	METALS	2411181340Y	Sodium, Total	21.3	mg/L	1.0	0.3		
11/18/2024	METALS	2411181340Y	Potassium, Total	3.4	mg/L	2.0	0.4		
11/18/2024	METALS	2411181340Y	Barium, Total	0.033	mg/L	0.020	0.003		
11/18/2024	METALS	2411181340Y	Boron, Total	0.1	mg/L	0.20	0.02		J
11/18/2024	METALS	2411181340Y	Calcium, Total	84.6	mg/L	1.0	0.3		
11/18/2024	METALS	2411181340Y	Iron, Total	0.35	mg/L	0.10	0.07		
11/18/2024	METALS	2411181340Y	Magnesium, Total	52.5	mg/L	1.0	0.03		
11/18/2024	SM2540C	2411191105Y	Total Dissolved Solids (TDS)	508	mg/L	10	9		
11/18/2024	351.2	2411191106Y	Nitrogen, Total Kjeldahl (TKN)	0.16	mg/L	0.20	0.15		J
11/18/2024	300.0	2411191107Y	Chloride	25.5	mg/L	2.0	0.5		

Analytical Results for Sampling Events at 200-I-375

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	METALS	2411181015Y	Strontium, Total	11.3	mg/L	1.0	0.02		
11/18/2024	METALS	2411181015Y	Manganese, Total	0.007	mg/L	0.010	0.004		J
11/18/2024	METALS	2411181015Y	Zinc, Total	0.044	mg/L	0.020	0.003		
11/18/2024	METALS	2411181015Y	Magnesium, Total	62.3	mg/L	1.0	0.03		
11/18/2024	METALS	2411181015Y	Sodium, Total	24.7	mg/L	1.0	0.3		
11/18/2024	METALS	2411181015Y	Potassium, Total	3.3	mg/L	2.0	0.4		
11/18/2024	METALS	2411181015Y	Nickel, Total	0.007	mg/L	0.040	0.003		J
11/18/2024	METALS	2411181015Y	Molybdenum, Total	0.014	mg/L	0.025	0.003		J
11/18/2024	METALS	2411181015Y	Arsenic, Total	0.0006	mg/L	0.0010	0.0004		J
11/18/2024	METALS	2411181015Y	Iron, Total	0.28	mg/L	0.10	0.07		
11/18/2024	METALS	2411181015Y	Calcium, Total	112	mg/L	1.0	0.3		
11/18/2024	METALS	2411181015Y	Boron, Total	0.09	mg/L	0.20	0.02		J
11/18/2024	METALS	2411181015Y	Barium, Total	0.024	mg/L	0.020	0.003		

Analytical Results for Sampling Events at 200-I-490

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	8260	2411151125Y	Tetrahydrofuran (THF)	11	ug/L	5.0	1.7		
11/15/2024	8260	2411151125Y	Benzene	0.49	ug/L	1.0	0.20		J
11/15/2024	METALS	2411151127Y	Manganese, Total	0.005	mg/L	0.01	0.004		J
11/15/2024	METALS	2411151127Y	Iron, Total	0.32	mg/L	0.1	0.07		
11/15/2024	METALS	2411151127Y	Barium, Total	0.026	mg/L	0.02	0.003		
11/15/2024	METALS	2411151127Y	Calcium, Total	112	mg/L	1	0.3		
11/15/2024	METALS	2411151127Y	Magnesium, Total	61.1	mg/L	1	0.03		
11/15/2024	METALS	2411151127Y	Strontium, Total	22.2	mg/L	1	0.02		
11/15/2024	METALS	2411151127Y	Arsenic, Total	0.004	mg/L	0.001	0.0004		
11/15/2024	METALS	2411151127Y	Zinc, Total	0.098	mg/L	0.02	0.003		
11/15/2024	METALS	2411151127Y	Boron, Total	0.09	mg/L	0.2	0.02		J
11/15/2024	METALS	2411151127Y	Molybdenum, Total	0.031	mg/L	0.025	0.003		
11/15/2024	METALS	2411151127Y	Nickel, Total	0.008	mg/L	0.04	0.003		J
11/15/2024	METALS	2411151127Y	Potassium, Total	3.3	mg/L	2	0.4		
11/15/2024	METALS	2411151127Y	Sodium, Total	24.2	mg/L	1	0.3		
11/15/2024	ANIONS	2411151155Y	Alkalinity, Total as CaCO3	265	mg/L	2	1.8		
11/15/2024	ANIONS	2411151155Y	Fluoride, undistilled	2	mg/L	0.1	0.01		
11/15/2024	ANIONS	2411151155Y	Sulfate	246	mg/L	20	4		
11/15/2024	ANIONS	2411151155Y	Chloride	40.9	mg/L	2	0.5		
11/15/2024	SM2540C	2411151156Y	Total Dissolved Solids (TDS)	693	mg/L	10	9		
11/15/2024	353.2	2411151158Y	Nitrate+Nitrite as Nitrogen	0.007	mg/L	0.05	0.002		J

Analytical Results for Sampling Events at 200-I-675

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	8260	2411150930Y	Silane, fluorotrimethyl-	5.6	ug/L	NA	NA		J TIC
11/15/2024	8260	2411150930Y	Tetrahydrofuran (THF)	47	ug/L	5.0	1.7		
11/15/2024	METALS	2411150932Y	Arsenic, Total	0.002	mg/L	0.001	0.0004		
11/15/2024	METALS	2411150932Y	Boron, Total	0.09	mg/L	0.2	0.02		J
11/15/2024	METALS	2411150932Y	Magnesium, Total	96.7	mg/L	1	0.03		
11/15/2024	METALS	2411150932Y	Barium, Total	0.017	mg/L	0.02	0.003		J
11/15/2024	METALS	2411150932Y	Manganese, Total	0.021	mg/L	0.01	0.004		
11/15/2024	METALS	2411150932Y	Nickel, Total	0.008	mg/L	0.04	0.003		J
11/15/2024	METALS	2411150932Y	Potassium, Total	3.9	mg/L	2	0.4		
11/15/2024	METALS	2411150932Y	Sodium, Total	28.5	mg/L	1	0.3		
11/15/2024	METALS	2411150932Y	Strontium, Total	22.5	mg/L	1	0.02		
11/15/2024	METALS	2411150932Y	Zinc, Total	0.025	mg/L	0.02	0.003		EB
11/15/2024	METALS	2411150932Y	Iron, Total	0.6	mg/L	0.1	0.07		
11/15/2024	METALS	2411150932Y	Calcium, Total	221	mg/L	1	0.3		

Analytical Results for Sampling Events at 200-I-795

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/14/2024	8260	2411150710Y	Unknown	11	ug/L	NA	NA		J TIC
11/14/2024	8260	2411150710Y	Styrene	0.24	ug/L	1.0	0.20		J
11/14/2024	8260	2411150710Y	Propionitrile	3.1	ug/L	5.0	3.0		J
11/14/2024	8260	2411150710Y	Tetrahydrofuran (THF)	160	ug/L	5.0	1.7		
11/14/2024	607	2411150711Y	N-Nitrosodimethylamine	0.02	µg/L	0.0098	0.0049	47	
11/14/2024	607	2411150711Y	N-Nitrodimethylamine	0.006	µg/L	0.0098	0.0049	80	J
11/14/2024	607	2411150711Y	Bromacil	0.01	µg/L	0.0098	0.0049	99	
11/14/2024	METALS	2411150712Y	Zinc, Total	0.248	mg/L	0.02	0.003		
11/14/2024	METALS	2411150712Y	Arsenic, Total	0.0007	mg/L	0.001	0.0004		J
11/14/2024	METALS	2411150712Y	Sodium, Total	31.7	mg/L	1	0.3		
11/14/2024	METALS	2411150712Y	Boron, Total	0.12	mg/L	0.2	0.02		J
11/14/2024	METALS	2411150712Y	Potassium, Total	4.3	mg/L	2	0.4		
11/14/2024	METALS	2411150712Y	Nickel, Total	0.009	mg/L	0.04	0.003		J
11/14/2024	METALS	2411150712Y	Manganese, Total	0.019	mg/L	0.01	0.004		
11/14/2024	METALS	2411150712Y	Barium, Total	0.019	mg/L	0.02	0.003		J
11/14/2024	METALS	2411150712Y	Magnesium, Total	98.7	mg/L	1	0.03		
11/14/2024	METALS	2411150712Y	Iron, Total	1.95	mg/L	0.1	0.07		
11/14/2024	METALS	2411150712Y	Chromium, Total	0.005	mg/L	0.01	0.002		J
11/14/2024	METALS	2411150712Y	Vanadium, Total	0.0007	mg/L	0.05	0.0007		J
11/14/2024	METALS	2411150712Y	Calcium, Total	331	mg/L	10	3		
11/14/2024	METALS	2411150712Y	Strontium, Total	15.9	mg/L	1	0.02		
11/14/2024	METALS	2411150712Y	Aluminum, Total	0.12	mg/L	0.1	0.03		

Analytical Results for Sampling Events at 300-001-GSV

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/12/2024	8260	2412121335C	Unknown	40	ug/L	NA	NA		J TIC
12/12/2024	8260	2412121335C	1,1,2-Trichloro-1,2,2-Trifluoroethane	8.7	ug/L	1.0	0.20		
12/12/2024	8260	2412121335C	Toluene	0.21	ug/L	1.0	0.20		J
12/12/2024	8260	2412121335C	Trichloroethene (TCE)	0.29	ug/L	1.0	0.20		J
12/12/2024	8260	2412121335C	Trichlorofluoromethane (CFC 11)	44	ug/L	1.0	0.24		
12/12/2024	607	2412121337C	Bromacil	1.3	µg/L	0.0097	0.0049	82	*
12/12/2024	607	2412121337C	N-Nitrosodimethylamine	10.49	µg/L	0.49	0.24	58	D *
12/12/2024	607	2412121337C	Bromacil	0.58	µg/L	0.49	0.24	82	D *
12/12/2024	607	2412121337C	N-Nitrodimethylamine	63.69	µg/L	0.49	0.24	91	D *
12/12/2024	8270	2412121338C	Unknown	5.8	ug/L	NA	NA		J
12/12/2024	8270	2412121338C	Ethane, 1,1,2,2-tetrachloro-	9.2	ug/L	NA	NA		J TIC
12/12/2024	8270	2412121338C	Methanamine, N-methyl-N-nitro-	18	ug/L	NA	NA		J TIC
12/12/2024	8270	2412121338C	1-Methyl-1H-1,2,4-triazole	17	ug/L	NA	NA		J TIC
12/12/2024	8270	2412121338C	Unknown	280	ug/L	NA	NA		J
12/12/2024	8270	2412121338C	N-Nitrosodimethylamine	12	ug/L	10	1.0		
12/12/2024	ANIONS	2412121339C	Sulfate	247	mg/L	20	4		
12/12/2024	ANIONS	2412121339C	Chloride	47.1	mg/L	2.0	0.5		
12/12/2024	ANIONS	2412121339C	Fluoride, undistilled	0.58	mg/L	0.10	0.010		
12/12/2024	ANIONS	2412121339C	Alkalinity, Total as CaCO3	282	mg/L	2.0	1.8		
12/12/2024	SM2540C	2412121340C	Total Dissolved Solids (TDS)	1090	mg/L	10	9		
12/12/2024	6850	2412121341C	Perchlorate	0.46	ug/L	0.20	0.047		
12/12/2024	353.2	2412121342C	Nitrate+Nitrite as Nitrogen	66.4	mg/L	5.0	0.2		
12/12/2024	METALS	2412121343C	Iron, Total	0.38	mg/L	0.10	0.07		
12/12/2024	METALS	2412121343C	Nickel, Total	0.039	mg/L	0.040	0.003		J
12/12/2024	METALS	2412121343C	Strontium, Total	1.74	mg/L	0.10	0.002		
12/12/2024	METALS	2412121343C	Thallium, Total	0.0003	mg/L	0.0010	0.00004		J
12/12/2024	METALS	2412121343C	Vanadium, Total	0.003	mg/L	0.050	0.0007		J
12/12/2024	METALS	2412121343C	Zinc, Total	0.024	mg/L	0.020	0.003		
12/12/2024	METALS	2412121343C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
12/12/2024	METALS	2412121343C	Mercury, Total	0.00008	mg/L	0.00020	0.00008		J
12/12/2024	METALS	2412121343C	Magnesium, Total	65.6	mg/L	1.0	0.03		
12/12/2024	METALS	2412121343C	Sodium, Total	136	mg/L	5.0	1.4		
12/12/2024	METALS	2412121343C	Potassium, Total	4.1	mg/L	2.0	0.4		
12/12/2024	METALS	2412121343C	Cobalt, Total	0.001	mg/L	0.050	0.0009		J
12/12/2024	METALS	2412121343C	Calcium, Total	94.4	mg/L	1.0	0.3		
12/12/2024	METALS	2412121343C	Aluminum, Total	0.1	mg/L	0.10	0.03		
12/12/2024	METALS	2412121343C	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
12/12/2024	METALS	2412121343C	Arsenic, Total	0.001	mg/L	0.0010	0.0004		J

Analytical Results for Sampling Events at 300-001-GSV

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/12/2024	METALS	2412121343C	Barium, Total	0.04	mg/L	0.020	0.003		
12/12/2024	METALS	2412121343C	Boron, Total	0.27	mg/L	0.20	0.02		
12/12/2024	METALS	2412121343C	Manganese, Total	0.021	mg/L	0.010	0.004		

Analytical Results for Sampling Events at 300-002-GSV

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/16/2024	8260	2412161345C	Toluene	0.55	ug/L	1.0	0.20		J
12/16/2024	8260	2412161345C	Unknown	31	ug/L	NA	NA		J TIC
12/16/2024	8260	2412161345C	Trichloroethene (TCE)	0.33	ug/L	1.0	0.20		J
12/16/2024	8260	2412161345C	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.5	ug/L	1.0	0.20		
12/16/2024	8260	2412161345C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	2.2	ug/L	1.0	0.20		
12/16/2024	8260	2412161345C	Trichlorofluoromethane (CFC 11)	32	ug/L	1.0	0.24		
12/16/2024	8260	2412161345C	Dichlorofluoromethane (CFC 21)	22	ug/L	1.0	0.20		
12/16/2024	607	2412161347C	N-Nitrosodimethylamine	0.26	µg/L	0.0095	0.0048	58	
12/16/2024	607	2412161347C	N-Nitrodimethylamine	0.96	µg/L	0.0095	0.0048	91	
12/16/2024	607	2412161347C	Bromacil	1.13	µg/L	0.0095	0.0048	82	
12/16/2024	8270	2412161350C	Unknown	230	ug/L	NA	NA		J
12/16/2024	8270	2412161350C	Bis(2-ethylhexyl) Phthalate	10	ug/L	10	4.3		QD
12/16/2024	METALS	2412161354C	Manganese, Total	0.361	mg/L	0.010	0.004		
12/16/2024	METALS	2412161354C	Chromium, Total	0.003	mg/L	0.010	0.002		J
12/16/2024	METALS	2412161354C	Molybdenum, Total	0.029	mg/L	0.025	0.003		
12/16/2024	METALS	2412161354C	Nickel, Total	0.028	mg/L	0.040	0.003		J
12/16/2024	METALS	2412161354C	Potassium, Total	3.7	mg/L	2.0	0.4		
12/16/2024	METALS	2412161354C	Sodium, Total	61.7	mg/L	5.0	1.4		
12/16/2024	METALS	2412161354C	Zinc, Total	0.073	mg/L	0.020	0.003		
12/16/2024	METALS	2412161354C	Thallium, Total	0.00007	mg/L	0.0010	0.00004		J
12/16/2024	METALS	2412161354C	Strontium, Total	1.86	mg/L	0.10	0.002		
12/16/2024	METALS	2412161354C	Cobalt, Total	0.001	mg/L	0.050	0.0009		J
12/16/2024	METALS	2412161354C	Calcium, Total	96.9	mg/L	1.0	0.3		
12/16/2024	METALS	2412161354C	Boron, Total	0.13	mg/L	0.20	0.02		J
12/16/2024	METALS	2412161354C	Barium, Total	0.055	mg/L	0.020	0.003		
12/16/2024	METALS	2412161354C	Arsenic, Total	0.0083	mg/L	0.0010	0.0004		
12/16/2024	METALS	2412161354C	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
12/16/2024	METALS	2412161354C	Aluminum, Total	0.13	mg/L	0.10	0.03		
12/16/2024	METALS	2412161354C	Iron, Total	0.61	mg/L	0.10	0.07		
12/16/2024	METALS	2412161354C	Magnesium, Total	56.1	mg/L	1.0	0.03		
12/16/2024	ANIONS	2412161355C	Chloride	59.7	mg/L	2.0	0.5		
12/16/2024	ANIONS	2412161355C	Fluoride, undistilled	0.79	mg/L	0.10	0.010		
12/16/2024	ANIONS	2412161355C	Alkalinity, Total as CaCO3	256	mg/L	2.0	1.8		
12/16/2024	ANIONS	2412161355C	Sulfate	279	mg/L	20	4		
12/16/2024	SM2540C	2412161356C	Total Dissolved Solids (TDS)	787	mg/L	10	9		
12/16/2024	353.2	2412161358C	Nitrate+Nitrite as Nitrogen	0.196	mg/L	0.050	0.002		

Analytical Results for Sampling Events at 300-F-175

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	8270	2501150924C	Cyclohexane	17	ug/L	NA	NA		J TIC RB
1/15/2025	8270	2501150924C	Butane, 2-methoxy-2-methyl-	350	ug/L	NA	NA		J TIC RB
1/15/2025	METALS	2501150926C	Vanadium, Total	0.001	mg/L	0.050	0.0007		J
1/15/2025	METALS	2501150926C	Nickel, Total	0.032	mg/L	0.040	0.003		J
1/15/2025	METALS	2501150926C	Zinc, Total	0.008	mg/L	0.020	0.003		J
1/15/2025	METALS	2501150926C	Strontium, Total	8.22	mg/L	0.10	0.002		
1/15/2025	METALS	2501150926C	Sodium, Total	72.9	mg/L	1.0	0.3		
1/15/2025	METALS	2501150926C	Potassium, Total	2.1	mg/L	2.0	0.4		
1/15/2025	METALS	2501150926C	Magnesium, Total	77.5	mg/L	1.0	0.03		
1/15/2025	METALS	2501150926C	Calcium, Total	104	mg/L	1.0	0.3		
1/15/2025	METALS	2501150926C	Boron, Total	0.1	mg/L	0.20	0.02		J
1/15/2025	METALS	2501150926C	Barium, Total	0.033	mg/L	0.020	0.003		
1/15/2025	METALS	2501150926C	Arsenic, Total	0.0016	mg/L	0.0010	0.0004		
1/15/2025	METALS	2501150926C	Antimony, Total	0.0009	mg/L	0.0010	0.0002		J
1/15/2025	METALS	2501150926C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
1/15/2025	ANIONS	2501150927C	Alkalinity, Total as CaCO3	262	mg/L	2.0	1.8		
1/15/2025	ANIONS	2501150927C	Sulfate	367	mg/L	20	4		
1/15/2025	ANIONS	2501150927C	Chloride	53.3	mg/L	2.0	0.5		
1/15/2025	ANIONS	2501150927C	Fluoride, undistilled	0.74	mg/L	0.10	0.010		
1/15/2025	SM2540C	2501150928C	Total Dissolved Solids (TDS)	913	mg/L	10	9		
1/15/2025	6850	2501150929C	Perchlorate	0.16	ug/L	0.20	0.047		J
1/15/2025	353.2	2501150930C	Nitrate+Nitrite as Nitrogen	0.309	mg/L	0.050	0.002		

Analytical Results for Sampling Events at 400-001-GW

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/19/2024	8260	2411191341A	Trichlorofluoromethane (CFC 11)	140	ug/L	1.0	0.24		
11/19/2024	8260	2411191341A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.29	ug/L	1.0	0.20		J
11/19/2024	8260	2411191341A	Dichlorofluoromethane (CFC 21)	0.62	ug/L	1.0	0.20		J
11/19/2024	8260	2411191341A	1,1,2-Trichloro-1,2,2-Trifluoroethane	26	ug/L	1.0	0.20		
11/19/2024	8260	2411191341A	Unknown	5.4	ug/L	NA	NA		J TIC
11/19/2024	8260	2411191341A	Trichloroethene (TCE)	0.86	ug/L	1.0	0.20		J
11/19/2024	607	2411191343A	N-Nitrosodimethylamine	2.86	µg/L	0.0095	0.0048	52	
11/19/2024	607	2411191343A	N-Nitrodimethylamine	3.93	µg/L	0.0095	0.0048	86	
11/19/2024	607	2411191343A	Bromacil	1.75	µg/L	0.0095	0.0048	104	
11/19/2024	8270	2411191344A	Unknown	8.1	ug/L	NA	NA		J TIC
11/19/2024	8270	2411191344A	n-Hexadecanoic acid	4.2	ug/L	NA	NA		J TIC
11/19/2024	8270	2411191344A	Butane, 2-methoxy-2-methyl-	600	ug/L	NA	NA		J TIC RB
11/19/2024	8270	2411191344A	N-Nitrosodimethylamine	3.8	ug/L	10	1.0		J
11/19/2024	METALS	2411191345A	Molybdenum, Total	0.006	mg/L	0.025	0.003		J
11/19/2024	METALS	2411191345A	Zinc, Total	0.022	mg/L	0.020	0.003		
11/19/2024	METALS	2411191345A	Vanadium, Total	0.003	mg/L	0.050	0.0007		J
11/19/2024	METALS	2411191345A	Strontium, Total	3.33	mg/L	0.10	0.002		
11/19/2024	METALS	2411191345A	Sodium, Total	85.3	mg/L	1.0	0.3		
11/19/2024	METALS	2411191345A	Selenium, Total	0.009	mg/L	0.010	0.007		J
11/19/2024	METALS	2411191345A	Potassium, Total	4.1	mg/L	2.0	0.4		
11/19/2024	METALS	2411191345A	Nickel, Total	0.015	mg/L	0.040	0.003		J
11/19/2024	METALS	2411191345A	Barium, Total	0.04	mg/L	0.020	0.003		
11/19/2024	METALS	2411191345A	Magnesium, Total	69	mg/L	1.0	0.03		
11/19/2024	METALS	2411191345A	Iron, Total	0.51	mg/L	0.10	0.07		
11/19/2024	METALS	2411191345A	Copper, Total	0.005	mg/L	0.020	0.004		J
11/19/2024	METALS	2411191345A	Chromium, Total	0.002	mg/L	0.010	0.002		J
11/19/2024	METALS	2411191345A	Aluminum, Total	0.99	mg/L	0.10	0.03		
11/19/2024	METALS	2411191345A	Boron, Total	0.21	mg/L	0.20	0.02		
11/19/2024	METALS	2411191345A	Calcium, Total	94.8	mg/L	1.0	0.3		
11/19/2024	METALS	2411191345A	Arsenic, Total	0.0015	mg/L	0.0010	0.0004		
11/19/2024	METALS	2411191345A	Manganese, Total	0.02	mg/L	0.010	0.004		
11/19/2024	ANIONS	2411191346A	Chloride	74.7	mg/L	2.0	0.5		
11/19/2024	ANIONS	2411191346A	Fluoride, undistilled	0.59	mg/L	0.10	0.010		
11/19/2024	ANIONS	2411191346A	Alkalinity, Total as CaCO3	209	mg/L	2.0	1.8		
11/19/2024	ANIONS	2411191346A	Sulfate	316	mg/L	20	4		
11/19/2024	SM2540C	2411191347A	Total Dissolved Solids (TDS)	870	mg/L	10	9		
11/19/2024	6850	2411191348A	Perchlorate	0.8	ug/L	0.20	0.047		
11/19/2024	353.2	2411191349A	Nitrate+Nitrite as Nitrogen	5.03	mg/L	0.50	0.02		

Analytical Results for Sampling Events at 400-A-151

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/2/2025	8260	2501021400A	1,1,2-Trichloro-1,2,2-Trifluoroethane	93	ug/L	1.0	0.20		
1/2/2025	8260	2501021400A	Dichlorofluoromethane (CFC 21)	4.8	ug/L	1.0	0.20		
1/2/2025	8260	2501021400A	Trichloroethene (TCE)	0.86	ug/L	1.0	0.20		J
1/2/2025	8260	2501021400A	Trichlorofluoromethane (CFC 11)	180	ug/L	2.0	0.48		D
1/2/2025	8260	2501021400A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	4.1	ug/L	1.0	0.20		
1/2/2025	8260	2501021401A	Trichlorofluoromethane (CFC 11)	190	ug/L	1.0	0.24		
1/2/2025	8260	2501021401A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	3.3	ug/L	1.0	0.20		
1/2/2025	8260	2501021401A	1,1,2-Trichloro-1,2,2-Trifluoroethane	85	ug/L	1.0	0.20		
1/2/2025	8260	2501021401A	Dichlorofluoromethane (CFC 21)	4.3	ug/L	1.0	0.20		
1/2/2025	8260	2501021401A	Trichloroethene (TCE)	0.92	ug/L	1.0	0.20		J
1/2/2025	607	2501021403A	N-Nitrodimethylamine	4.1	µg/L	0.0094	0.0047	69	
1/2/2025	607	2501021403A	Bromacil	1.31	µg/L	0.0094	0.0047	107	
1/2/2025	607	2501021403A	N-Nitrosodimethylamine	5.16	µg/L	0.0094	0.0047	39	
1/2/2025	METALS	2501021404A	Potassium, Total	3.4	mg/L	2.0	0.4		
1/2/2025	METALS	2501021404A	Vanadium, Total	0.002	mg/L	0.050	0.0007		RB J
1/2/2025	METALS	2501021404A	Sodium, Total	98.9	mg/L	1.0	0.3		
1/2/2025	METALS	2501021404A	Nickel, Total	0.028	mg/L	0.040	0.003		J
1/2/2025	METALS	2501021404A	Molybdenum, Total	0.007	mg/L	0.025	0.003		RB J
1/2/2025	METALS	2501021404A	Calcium, Total	100	mg/L	1.0	0.3		
1/2/2025	METALS	2501021404A	Boron, Total	0.24	mg/L	0.20	0.02		
1/2/2025	METALS	2501021404A	Barium, Total	0.027	mg/L	0.020	0.003		
1/2/2025	METALS	2501021404A	Arsenic, Total	0.0008	mg/L	0.0010	0.0004		J
1/2/2025	METALS	2501021404A	Magnesium, Total	71.5	mg/L	1.0	0.03		
1/2/2025	METALS	2501021404A	Strontium, Total	3.57	mg/L	0.10	0.002		
1/2/2025	353.2	2501021405A	Nitrate+Nitrite as Nitrogen	5.62	mg/L	0.50	0.02		

Analytical Results for Sampling Events at 400-C-143

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/12/2024	8260	2411120930A	1,1,2-Trichloro-1,2,2-Trifluoroethane	96	ug/L	1.0	0.20		
11/12/2024	8260	2411120930A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.7	ug/L	1.0	0.20		
11/12/2024	8260	2411120930A	Trichlorofluoromethane (CFC 11)	270	ug/L	5.0	1.2		D
11/12/2024	8260	2411120930A	Trichloroethene (TCE)	1.3	ug/L	1.0	0.20		
11/12/2024	8260	2411120930A	1,1-Dichloroethene	0.23	ug/L	1.0	0.20		J
11/12/2024	8260	2411120930A	Dichlorofluoromethane (CFC 21)	1.9	ug/L	1.0	0.20		
11/12/2024	607	2411120932A	N-Nitrosodimethylamine	2.75	µg/L	0.0095	0.0048	47	
11/12/2024	607	2411120932A	N-Nitrodimethylamine	4.01	µg/L	0.0095	0.0048	80	
11/12/2024	607	2411120932A	Bromacil	4.33	µg/L	0.0095	0.0048	99	
11/12/2024	8270	2411120933A	n-Hexadecanoic acid	4.2	ug/L	NA	NA		J TIC RB
11/12/2024	8270	2411120933A	N-Nitrosodimethylamine	4.7	ug/L	10	1.0		J
11/12/2024	8270	2411120933A	Butane, 2-methoxy-2-methyl-	720	ug/L	NA	NA		J TIC RB
11/12/2024	8290	2411120936A	Total Tetra-Furans	1.91	pg/L	NA	NA		J
11/12/2024	METALS	2411120939A	Nickel, Total	0.025	mg/L	0.040	0.003		J
11/12/2024	METALS	2411120939A	Vanadium, Total	0.001	mg/L	0.050	0.0007		J
11/12/2024	METALS	2411120939A	Thallium, Total	0.00005	mg/L	0.0010	0.00004		J
11/12/2024	METALS	2411120939A	Strontium, Total	2.91	mg/L	0.10	0.002		
11/12/2024	METALS	2411120939A	Potassium, Total	3.3	mg/L	2.0	0.4		
11/12/2024	METALS	2411120939A	Molybdenum, Total	0.006	mg/L	0.025	0.003		J
11/12/2024	METALS	2411120939A	Magnesium, Total	74.2	mg/L	1.0	0.03		
11/12/2024	METALS	2411120939A	Chromium, Total	0.002	mg/L	0.010	0.002		J
11/12/2024	METALS	2411120939A	Calcium, Total	102	mg/L	1.0	0.3		
11/12/2024	METALS	2411120939A	Boron, Total	0.27	mg/L	0.20	0.02		
11/12/2024	METALS	2411120939A	Barium, Total	0.033	mg/L	0.020	0.003		
11/12/2024	METALS	2411120939A	Arsenic, Total	0.0008	mg/L	0.0010	0.0004		J
11/12/2024	METALS	2411120939A	Antimony, Total	0.0008	mg/L	0.0010	0.0002		J
11/12/2024	METALS	2411120939A	Sodium, Total	84.9	mg/L	1.0	0.3		
11/12/2024	353.2	2411120940A	Nitrate+Nitrite as Nitrogen	6.83	mg/L	0.50	0.02		

Analytical Results for Sampling Events at 400-EV-131

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	8260	2412110945A	1,1,2-Trichloro-1,2,2-Trifluoroethane	88	ug/L	1.0	0.20		
12/11/2024	8260	2412110945A	Dichlorofluoromethane (CFC 21)	0.33	ug/L	1.0	0.20		J
12/11/2024	8260	2412110945A	Trichloroethene (TCE)	1.1	ug/L	1.0	0.20		
12/11/2024	8260	2412110945A	Trichlorofluoromethane (CFC 11)	370	ug/L	2.5	0.60		D
12/11/2024	8260	2412110945A	Unknown	42	ug/L	NA	NA		J
12/11/2024	607	2412110947A	N-Nitrosodimethylamine	0.62	µg/L	0.0097	0.0049	57	
12/11/2024	607	2412110947A	Bromacil	5.72	µg/L	0.049	0.024	89	D
12/11/2024	607	2412110947A	N-Nitrodimethylamine	1.43	µg/L	0.0097	0.0049	91	
12/11/2024	METALS	2412110948A	Sodium, Total	104	mg/L	1.0	0.3		
12/11/2024	METALS	2412110948A	Zinc, Total	0.004	mg/L	0.020	0.003		J
12/11/2024	METALS	2412110948A	Vanadium, Total	0.001	mg/L	0.050	0.0007		J
12/11/2024	METALS	2412110948A	Strontium, Total	3.99	mg/L	0.10	0.002		
12/11/2024	METALS	2412110948A	Potassium, Total	4.6	mg/L	2.0	0.4		
12/11/2024	METALS	2412110948A	Nickel, Total	0.103	mg/L	0.040	0.003		
12/11/2024	METALS	2412110948A	Manganese, Total	0.006	mg/L	0.010	0.004		J
12/11/2024	METALS	2412110948A	Magnesium, Total	80.3	mg/L	1.0	0.03		
12/11/2024	METALS	2412110948A	Calcium, Total	104	mg/L	1.0	0.3		
12/11/2024	METALS	2412110948A	Boron, Total	0.24	mg/L	0.20	0.02		
12/11/2024	METALS	2412110948A	Barium, Total	0.031	mg/L	0.020	0.003		
12/11/2024	METALS	2412110948A	Arsenic, Total	0.0009	mg/L	0.0010	0.0004		J
12/11/2024	METALS	2412110948A	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
12/11/2024	METALS	2412110948A	Thallium, Total	0.00004	mg/L	0.0010	0.00004		J

Analytical Results for Sampling Events at 400-FV-131

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	8260	2412110935C	1,1,2-Trichloro-1,2,2-Trifluoroethane	11	ug/L	1.0	0.20		
12/11/2024	8260	2412110935C	Unknown	48	ug/L	NA	NA		J
12/11/2024	8260	2412110935C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	3.3	ug/L	1.0	0.20		
12/11/2024	8260	2412110935C	Trichlorofluoromethane (CFC 11)	6.9	ug/L	1.0	0.24		
12/11/2024	8260	2412110935C	Toluene	0.31	ug/L	1.0	0.20		J
12/11/2024	8260	2412110935C	Dichlorofluoromethane (CFC 21)	2.5	ug/L	1.0	0.20		
12/11/2024	8260	2412110936C	Dichlorofluoromethane (CFC 21)	2.4	ug/L	1.0	0.20		
12/11/2024	8260	2412110936C	Unknown	48	ug/L	NA	NA		J
12/11/2024	8260	2412110936C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	3.5	ug/L	1.0	0.20		
12/11/2024	8260	2412110936C	Trichlorofluoromethane (CFC 11)	6.7	ug/L	1.0	0.24		
12/11/2024	8260	2412110936C	Toluene	0.21	ug/L	1.0	0.20		J
12/11/2024	8260	2412110936C	1,1,2-Trichloro-1,2,2-Trifluoroethane	10	ug/L	1.0	0.20		
12/11/2024	607	2412110938C	N-Nitrosodimethylamine	0.3	µg/L	0.0097	0.0049	57	
12/11/2024	607	2412110938C	N-Nitrodimethylamine	0.13	µg/L	0.0097	0.0049	91	
12/11/2024	607	2412110938C	Bromacil	0.04	µg/L	0.0097	0.0049	89	QD
12/11/2024	607	2412110939C	N-Nitrodimethylamine	0.14	µg/L	0.0095	0.0048	91	
12/11/2024	607	2412110939C	N-Nitrosodimethylamine	0.32	µg/L	0.0095	0.0048	57	
12/11/2024	607	2412110939C	Bromacil	0.03	µg/L	0.0095	0.0048	89	QD
12/11/2024	METALS	2412110940C	Manganese, Total	0.064	mg/L	0.010	0.004		
12/11/2024	METALS	2412110940C	Potassium, Total	2.3	mg/L	2.0	0.4		
12/11/2024	METALS	2412110940C	Zinc, Total	0.004	mg/L	0.020	0.003		J
12/11/2024	METALS	2412110940C	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
12/11/2024	METALS	2412110940C	Strontium, Total	1.65	mg/L	0.10	0.002		
12/11/2024	METALS	2412110940C	Sodium, Total	110	mg/L	1.0	0.3		
12/11/2024	METALS	2412110940C	Selenium, Total	0.008	mg/L	0.010	0.007		J
12/11/2024	METALS	2412110940C	Molybdenum, Total	0.007	mg/L	0.025	0.003		J
12/11/2024	METALS	2412110940C	Magnesium, Total	72.2	mg/L	1.0	0.03		
12/11/2024	METALS	2412110940C	Calcium, Total	86.1	mg/L	1.0	0.3		
12/11/2024	METALS	2412110940C	Boron, Total	0.22	mg/L	0.20	0.02		
12/11/2024	METALS	2412110940C	Barium, Total	0.033	mg/L	0.020	0.003		
12/11/2024	METALS	2412110940C	Arsenic, Total	0.0013	mg/L	0.0010	0.0004		
12/11/2024	METALS	2412110940C	Nickel, Total	0.029	mg/L	0.040	0.003		J
12/11/2024	METALS	2412110941C	Nickel, Total	0.031	mg/L	0.040	0.003		J
12/11/2024	METALS	2412110941C	Barium, Total	0.032	mg/L	0.020	0.003		
12/11/2024	METALS	2412110941C	Zinc, Total	0.004	mg/L	0.020	0.003		J
12/11/2024	METALS	2412110941C	Thallium, Total	0.00008	mg/L	0.0010	0.00004		J
12/11/2024	METALS	2412110941C	Strontium, Total	1.63	mg/L	0.10	0.002		
12/11/2024	METALS	2412110941C	Sodium, Total	108	mg/L	1.0	0.3		

Analytical Results for Sampling Events at 400-FV-131

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	METALS	2412110941C	Potassium, Total	2.3	mg/L	2.0	0.4		
12/11/2024	METALS	2412110941C	Manganese, Total	0.067	mg/L	0.010	0.004		
12/11/2024	METALS	2412110941C	Magnesium, Total	71.1	mg/L	1.0	0.03		
12/11/2024	METALS	2412110941C	Boron, Total	0.21	mg/L	0.20	0.02		
12/11/2024	METALS	2412110941C	Arsenic, Total	0.0015	mg/L	0.0010	0.0004		
12/11/2024	METALS	2412110941C	Calcium, Total	84.9	mg/L	1.0	0.3		
12/11/2024	METALS	2412110941C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J

Analytical Results for Sampling Events at 400-GV-125

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	8260	2412111110C	Trichloroethene (TCE)	0.42	ug/L	1.0	0.20		J
12/11/2024	8260	2412111110C	Unknown	44	ug/L	NA	NA		J
12/11/2024	8260	2412111110C	Trichlorofluoromethane (CFC 11)	88	ug/L	1.0	0.24		
12/11/2024	8260	2412111110C	Toluene	0.23	ug/L	1.0	0.20		J
12/11/2024	8260	2412111110C	Dichlorofluoromethane (CFC 21)	3.3	ug/L	1.0	0.20		
12/11/2024	8260	2412111110C	1,1,2-Trichloro-1,2,2-Trifluoroethane	31	ug/L	1.0	0.20		
12/11/2024	8260	2412111110C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	4.4	ug/L	1.0	0.20		
12/11/2024	8260	2412111111C	Unknown	45	ug/L	NA	NA		J
12/11/2024	8260	2412111111C	1,1,2-Trichloro-1,2,2-Trifluoroethane	36	ug/L	1.0	0.20		
12/11/2024	8260	2412111111C	Dichlorofluoromethane (CFC 21)	3.8	ug/L	1.0	0.20		
12/11/2024	8260	2412111111C	Trichloroethene (TCE)	0.48	ug/L	1.0	0.20		J
12/11/2024	8260	2412111111C	Trichlorofluoromethane (CFC 11)	100	ug/L	1.0	0.24		
12/11/2024	8260	2412111111C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	5.1	ug/L	1.0	0.20		
12/11/2024	607	2412111113C	Bromacil	1.76	µg/L	0.0095	0.0048	89	
12/11/2024	607	2412111113C	N-Nitrodimethylamine	1.41	µg/L	0.0095	0.0048	91	
12/11/2024	607	2412111113C	N-Nitrosodimethylamine	0.92	µg/L	0.0095	0.0048	57	
12/11/2024	607	2412111114C	N-Nitrosodimethylamine	0.93	µg/L	0.0097	0.0049	57	
12/11/2024	607	2412111114C	N-Nitrodimethylamine	1.47	µg/L	0.0097	0.0049	91	
12/11/2024	607	2412111114C	Bromacil	1.84	µg/L	0.0097	0.0049	89	
12/11/2024	METALS	2412111115C	Vanadium, Total	0.001	mg/L	0.050	0.0007		J
12/11/2024	METALS	2412111115C	Magnesium, Total	77.5	mg/L	1.0	0.03		
12/11/2024	METALS	2412111115C	Calcium, Total	106	mg/L	1.0	0.3		
12/11/2024	METALS	2412111115C	Boron, Total	0.22	mg/L	0.20	0.02		
12/11/2024	METALS	2412111115C	Barium, Total	0.032	mg/L	0.020	0.003		
12/11/2024	METALS	2412111115C	Zinc, Total	0.004	mg/L	0.020	0.003		J
12/11/2024	METALS	2412111115C	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
12/11/2024	METALS	2412111115C	Strontium, Total	2.41	mg/L	0.10	0.002		
12/11/2024	METALS	2412111115C	Sodium, Total	93.4	mg/L	1.0	0.3		
12/11/2024	METALS	2412111115C	Potassium, Total	2.9	mg/L	2.0	0.4		
12/11/2024	METALS	2412111115C	Nickel, Total	0.028	mg/L	0.040	0.003		J
12/11/2024	METALS	2412111115C	Molybdenum, Total	0.007	mg/L	0.025	0.003		J
12/11/2024	METALS	2412111115C	Arsenic, Total	0.0008	mg/L	0.0010	0.0004		J
12/11/2024	METALS	2412111116C	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
12/11/2024	METALS	2412111116C	Vanadium, Total	0.002	mg/L	0.050	0.0007		J
12/11/2024	METALS	2412111116C	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
12/11/2024	METALS	2412111116C	Strontium, Total	2.45	mg/L	0.10	0.002		
12/11/2024	METALS	2412111116C	Sodium, Total	95.5	mg/L	1.0	0.3		
12/11/2024	METALS	2412111116C	Zinc, Total	0.004	mg/L	0.020	0.003		J

Analytical Results for Sampling Events at 400-GV-125

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	METALS	2412111116C	Magnesium, Total	78.9	mg/L	1.0	0.03		
12/11/2024	METALS	2412111116C	Calcium, Total	108	mg/L	1.0	0.3		
12/11/2024	METALS	2412111116C	Boron, Total	0.23	mg/L	0.20	0.02		
12/11/2024	METALS	2412111116C	Barium, Total	0.033	mg/L	0.020	0.003		
12/11/2024	METALS	2412111116C	Arsenic, Total	0.0009	mg/L	0.0010	0.0004		J
12/11/2024	METALS	2412111116C	Potassium, Total	2.9	mg/L	2.0	0.4		
12/11/2024	METALS	2412111116C	Nickel, Total	0.03	mg/L	0.040	0.003		J

Analytical Results for Sampling Events at 400-HV-147

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	8260	2412111030A	Trichlorofluoromethane (CFC 11)	110	ug/L	1.0	0.24		
12/11/2024	8260	2412111030A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.97	ug/L	1.0	0.20		J
12/11/2024	8260	2412111030A	Trichloroethene (TCE)	0.31	ug/L	1.0	0.20		J
12/11/2024	8260	2412111030A	Dichlorofluoromethane (CFC 21)	2.8	ug/L	1.0	0.20		
12/11/2024	8260	2412111030A	Chloroform	0.98	ug/L	1.0	0.51		J
12/11/2024	8260	2412111030A	1,1,2-Trichloro-1,2,2-Trifluoroethane	53	ug/L	1.0	0.20		
12/11/2024	8260	2412111030A	Unknown	45	ug/L	NA	NA		J
12/11/2024	607	2412111032A	Bromacil	1.4	µg/L	0.0095	0.0048	89	
12/11/2024	607	2412111032A	N-Nitrosodimethylamine	164.57	µg/L	0.95	0.48	57	D *
12/11/2024	607	2412111032A	N-Nitrodimethylamine	420.95	µg/L	0.95	0.48	91	D *
12/11/2024	METALS	2412111033A	Molybdenum, Total	0.006	mg/L	0.025	0.003		J
12/11/2024	METALS	2412111033A	Zinc, Total	0.004	mg/L	0.020	0.003		J
12/11/2024	METALS	2412111033A	Vanadium, Total	0.004	mg/L	0.050	0.0007		J
12/11/2024	METALS	2412111033A	Thallium, Total	0.00005	mg/L	0.0010	0.00004		J
12/11/2024	METALS	2412111033A	Strontium, Total	6.03	mg/L	0.10	0.002		
12/11/2024	METALS	2412111033A	Sodium, Total	155	mg/L	1.0	0.3		
12/11/2024	METALS	2412111033A	Potassium, Total	4.7	mg/L	2.0	0.4		
12/11/2024	METALS	2412111033A	Nickel, Total	0.04	mg/L	0.040	0.003		J
12/11/2024	METALS	2412111033A	Cobalt, Total	0.002	mg/L	0.050	0.0009		J
12/11/2024	METALS	2412111033A	Chromium, Total	0.006	mg/L	0.010	0.002		J
12/11/2024	METALS	2412111033A	Calcium, Total	155	mg/L	1.0	0.3		
12/11/2024	METALS	2412111033A	Boron, Total	0.9	mg/L	0.20	0.02		
12/11/2024	METALS	2412111033A	Barium, Total	0.075	mg/L	0.020	0.003		
12/11/2024	METALS	2412111033A	Arsenic, Total	0.0015	mg/L	0.0010	0.0004		
12/11/2024	METALS	2412111033A	Antimony, Total	0.0025	mg/L	0.0010	0.0002		
12/11/2024	METALS	2412111033A	Magnesium, Total	119	mg/L	1.0	0.03		

Analytical Results for Sampling Events at 400-IV-123

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	8260	2412111350A	Dichlorofluoromethane (CFC 21)	1.3	ug/L	1.0	0.20		
12/11/2024	8260	2412111350A	Trichlorofluoromethane (CFC 11)	150	ug/L	1.0	0.24		
12/11/2024	8260	2412111350A	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.3	ug/L	1.0	0.20		
12/11/2024	8260	2412111350A	Unknown	31	ug/L	NA	NA		J
12/11/2024	607	2412111352A	N-Nitrodimethylamine	0.03	µg/L	0.0094	0.0047	91	
12/11/2024	607	2412111352A	Bromacil	0.01	µg/L	0.0094	0.0047	89	
12/11/2024	METALS	2412111353A	Antimony, Total	0.0003	mg/L	0.0010	0.0002		J
12/11/2024	METALS	2412111353A	Molybdenum, Total	0.011	mg/L	0.025	0.003		J
12/11/2024	METALS	2412111353A	Vanadium, Total	0.007	mg/L	0.050	0.0007		J
12/11/2024	METALS	2412111353A	Strontium, Total	0.87	mg/L	0.10	0.002		
12/11/2024	METALS	2412111353A	Sodium, Total	31.7	mg/L	1.0	0.3		
12/11/2024	METALS	2412111353A	Potassium, Total	2.8	mg/L	2.0	0.4		
12/11/2024	METALS	2412111353A	Nickel, Total	0.019	mg/L	0.040	0.003		J
12/11/2024	METALS	2412111353A	Magnesium, Total	26.5	mg/L	1.0	0.03		
12/11/2024	METALS	2412111353A	Chromium, Total	0.011	mg/L	0.010	0.002		
12/11/2024	METALS	2412111353A	Calcium, Total	16.3	mg/L	1.0	0.3		
12/11/2024	METALS	2412111353A	Boron, Total	0.14	mg/L	0.20	0.02		J
12/11/2024	METALS	2412111353A	Arsenic, Total	0.0079	mg/L	0.0010	0.0004		
12/11/2024	METALS	2412111353A	Barium, Total	0.027	mg/L	0.020	0.003		

Analytical Results for Sampling Events at 400-JV-150

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/11/2024	8260	2412111236C	Trichlorofluoromethane (CFC 11)	680	ug/L	5.0	1.2		D
12/11/2024	8260	2412111236C	1,1,2-Trichloro-1,2,2-Trifluoroethane	140	ug/L	1.0	0.20		
12/11/2024	8260	2412111236C	Unknown	46	ug/L	NA	NA		J
12/11/2024	8260	2412111236C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.68	ug/L	1.0	0.20		J
12/11/2024	8260	2412111236C	Toluene	0.3	ug/L	1.0	0.20		J
12/11/2024	8260	2412111236C	Chloroform	0.51	ug/L	1.0	0.51		J
12/11/2024	8260	2412111236C	Trichloroethene (TCE)	0.41	ug/L	1.0	0.20		J
12/11/2024	8260	2412111236C	Dichlorofluoromethane (CFC 21)	1.5	ug/L	1.0	0.20		
12/11/2024	607	2412111238C	N-Nitrosodimethylamine	1.67	µg/L	0.0096	0.0048	57	
12/11/2024	607	2412111238C	N-Nitrodimethylamine	3.91	µg/L	0.0096	0.0048	91	
12/11/2024	607	2412111238C	Bromacil	0.45	µg/L	0.0096	0.0048	89	
12/11/2024	METALS	2412111239C	Manganese, Total	0.007	mg/L	0.010	0.004		J
12/11/2024	METALS	2412111239C	Zinc, Total	0.003	mg/L	0.020	0.003		J
12/11/2024	METALS	2412111239C	Vanadium, Total	0.0008	mg/L	0.050	0.0007		J
12/11/2024	METALS	2412111239C	Strontium, Total	3.79	mg/L	0.10	0.002		
12/11/2024	METALS	2412111239C	Sodium, Total	230	mg/L	1.0	0.3		
12/11/2024	METALS	2412111239C	Selenium, Total	0.012	mg/L	0.010	0.007		
12/11/2024	METALS	2412111239C	Potassium, Total	5	mg/L	2.0	0.4		
12/11/2024	METALS	2412111239C	Molybdenum, Total	0.006	mg/L	0.025	0.003		J
12/11/2024	METALS	2412111239C	Magnesium, Total	104	mg/L	1.0	0.03		
12/11/2024	METALS	2412111239C	Calcium, Total	134	mg/L	1.0	0.3		
12/11/2024	METALS	2412111239C	Boron, Total	1.36	mg/L	0.20	0.02		
12/11/2024	METALS	2412111239C	Barium, Total	0.036	mg/L	0.020	0.003		
12/11/2024	METALS	2412111239C	Arsenic, Total	0.0007	mg/L	0.0010	0.0004		J
12/11/2024	METALS	2412111239C	Nickel, Total	0.031	mg/L	0.040	0.003		J

Analytical Results for Sampling Events at 600A-001-GW-1

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/9/2024	8260	2412091000B	Unknown	31	ug/L	NA	NA		J
12/9/2024	607	2412091002B	Bromacil	7.14	µg/L	0.095	0.048	89	D
12/9/2024	8270	2412091003B	Unknown	4.2	ug/L	NA	NA		J
12/9/2024	8270	2412091003B	Benzenesulfonamide, N-butyl-	85	ug/L	NA	NA		J TIC
12/9/2024	8270	2412091003B	Unknown	4.3	ug/L	NA	NA		J
12/9/2024	8270	2412091003B	Unknown	4	ug/L	NA	NA		J
12/9/2024	8270	2412091003B	Unknown	130	ug/L	NA	NA		J
12/9/2024	8270	2412091003B	1,2-Benzenedicarboxylic acid, mono	4.5	ug/L	NA	NA		J TIC
12/9/2024	METALS	2412091004B	Iron, Total	9.65	mg/L	0.10	0.07		
12/9/2024	METALS	2412091004B	Aluminum, Total	6.22	mg/L	0.10	0.03		
12/9/2024	METALS	2412091004B	Zinc, Total	0.04	mg/L	0.020	0.003		
12/9/2024	METALS	2412091004B	Vanadium, Total	0.009	mg/L	0.050	0.0007		J
12/9/2024	METALS	2412091004B	Strontium, Total	3.82	mg/L	0.10	0.002		
12/9/2024	METALS	2412091004B	Sodium, Total	45.9	mg/L	1.0	0.3		
12/9/2024	METALS	2412091004B	Selenium, Total	0.016	mg/L	0.010	0.007		
12/9/2024	METALS	2412091004B	Potassium, Total	5.2	mg/L	2.0	0.4		
12/9/2024	METALS	2412091004B	Nickel, Total	0.059	mg/L	0.040	0.003		
12/9/2024	METALS	2412091004B	Molybdenum, Total	0.018	mg/L	0.025	0.003		J
12/9/2024	METALS	2412091004B	Manganese, Total	0.135	mg/L	0.010	0.004		
12/9/2024	METALS	2412091004B	Lead, Total	0.004	mg/L	0.050	0.004		J
12/9/2024	METALS	2412091004B	Copper, Total	0.007	mg/L	0.020	0.004		J
12/9/2024	METALS	2412091004B	Cobalt, Total	0.002	mg/L	0.050	0.0009		J
12/9/2024	METALS	2412091004B	Chromium, Total	0.015	mg/L	0.010	0.002		
12/9/2024	METALS	2412091004B	Calcium, Total	151	mg/L	1.0	0.3		
12/9/2024	METALS	2412091004B	Cadmium, Total	0.0004	mg/L	0.0050	0.0004		J
12/9/2024	METALS	2412091004B	Boron, Total	0.08	mg/L	0.20	0.02		J
12/9/2024	METALS	2412091004B	Barium, Total	0.127	mg/L	0.020	0.003		
12/9/2024	METALS	2412091004B	Arsenic, Total	0.002	mg/L	0.0010	0.0004		
12/9/2024	METALS	2412091004B	Antimony, Total	0.0005	mg/L	0.0010	0.0002		J
12/9/2024	METALS	2412091004B	Magnesium, Total	83.7	mg/L	1.0	0.03		
12/9/2024	ANIONS	2412091005B	Alkalinity, Total as CaCO3	114	mg/L	2.0	1.8		
12/9/2024	ANIONS	2412091005B	Sulfate	329	mg/L	20	4		SP
12/9/2024	ANIONS	2412091005B	Chloride	223	mg/L	20	5		
12/9/2024	ANIONS	2412091005B	Fluoride, undistilled	1.12	mg/L	0.10	0.010		
12/9/2024	SM2540C	2412091006B	Total Dissolved Solids (TDS)	971	mg/L	10	9		
12/9/2024	6850	2412091007B	Perchlorate	1.7	ug/L	0.20	0.047		
12/9/2024	353.2	2412091008B	Nitrate+Nitrite as Nitrogen	1.79	mg/L	0.25	0.008		

Analytical Results for Sampling Events at 600A-002-GW-1

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/10/2024	8260	2412101325C	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.24	ug/L	1.0	0.20		J
12/10/2024	8260	2412101325C	Trichloroethene (TCE)	0.21	ug/L	1.0	0.20		J
12/10/2024	8260	2412101325C	Unknown	30	ug/L	NA	NA		J
12/10/2024	607	2412101327C	Bromacil	0.01	µg/L	0.0094	0.0047	89	
12/10/2024	8270	2412101328C	Unknown	14	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	28	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	33	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	6.5	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	32	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	23	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	14	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	130	ug/L	NA	NA		J
12/10/2024	8270	2412101328C	Unknown	22	ug/L	NA	NA		J
12/10/2024	METALS	2412101329C	Zinc, Total	0.029	mg/L	0.020	0.003		
12/10/2024	METALS	2412101329C	Calcium, Total	98.5	mg/L	1.0	0.3		
12/10/2024	METALS	2412101329C	Boron, Total	0.1	mg/L	0.20	0.02		J
12/10/2024	METALS	2412101329C	Barium, Total	0.028	mg/L	0.020	0.003		
12/10/2024	METALS	2412101329C	Potassium, Total	3.5	mg/L	2.0	0.4		
12/10/2024	METALS	2412101329C	Arsenic, Total	0.0013	mg/L	0.0010	0.0004		
12/10/2024	METALS	2412101329C	Chromium, Total	0.003	mg/L	0.010	0.002		J
12/10/2024	METALS	2412101329C	Strontium, Total	2.91	mg/L	0.10	0.002		
12/10/2024	METALS	2412101329C	Selenium, Total	0.009	mg/L	0.010	0.007		J
12/10/2024	METALS	2412101329C	Nickel, Total	0.029	mg/L	0.040	0.003		J
12/10/2024	METALS	2412101329C	Molybdenum, Total	0.018	mg/L	0.025	0.003		J
12/10/2024	METALS	2412101329C	Magnesium, Total	60.1	mg/L	1.0	0.03		
12/10/2024	METALS	2412101329C	Sodium, Total	38.4	mg/L	1.0	0.3		
12/10/2024	METALS	2412101329C	Vanadium, Total	0.002	mg/L	0.050	0.0007		J
12/10/2024	ANIONS	2412101330C	Alkalinity, Total as CaCO3	126	mg/L	2.0	1.8		
12/10/2024	ANIONS	2412101330C	Sulfate	186	mg/L	20	4		
12/10/2024	ANIONS	2412101330C	Chloride	162	mg/L	20	5		
12/10/2024	ANIONS	2412101330C	Fluoride, undistilled	1.06	mg/L	0.10	0.010		
12/10/2024	SM2540C	2412101331C	Total Dissolved Solids (TDS)	719	mg/L	10	9		
12/10/2024	6850	2412101332C	Perchlorate	2.5	ug/L	0.20	0.047		
12/10/2024	353.2	2412101333C	Nitrate+Nitrite as Nitrogen	4.49	mg/L	0.25	0.008		

Analytical Results for Sampling Events at 600A-004-GW

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/28/2025	8260	2501280950C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.1	ug/L	1.0	0.20		
1/28/2025	8260	2501280950C	Trichloroethene (TCE)	28	ug/L	1.0	0.20		
1/28/2025	8260	2501280950C	1,1,2-Trichloro-1,2,2-Trifluoroethane	33	ug/L	1.0	0.20		
1/28/2025	607	2501280952C	Bromacil	7.58	µg/L	0.094	0.047	57	D
1/28/2025	8270	2501280954C	Butane, 2-methoxy-2-methyl-	450	ug/L	NA	NA		J TIC
1/28/2025	8270	2501280954C	Unknown	4.2	ug/L	NA	NA		J
1/28/2025	8270	2501280954C	Benzenesulfonamide, N-butyl-	66	ug/L	NA	NA		J TIC
1/28/2025	8270	2501280954C	n-Hexadecanoic acid	4.3	ug/L	NA	NA		J TIC
1/28/2025	8270	2501280954C	Bromacil	7.5	ug/L	NA	NA		J TIC
1/28/2025	METALS	2501280955C	Nickel, Total	0.029	mg/L	0.040	0.003		J
1/28/2025	METALS	2501280955C	Potassium, Total	5.4	mg/L	2.0	0.4		
1/28/2025	METALS	2501280955C	Selenium, Total	0.02	mg/L	0.010	0.007		
1/28/2025	METALS	2501280955C	Sodium, Total	215	mg/L	1.0	0.3		
1/28/2025	METALS	2501280955C	Strontium, Total	5.35	mg/L	0.10	0.002		
1/28/2025	METALS	2501280955C	Zinc, Total	0.016	mg/L	0.020	0.003		J
1/28/2025	METALS	2501280955C	Boron, Total	1.31	mg/L	0.20	0.02		
1/28/2025	METALS	2501280955C	Molybdenum, Total	0.017	mg/L	0.025	0.003		J
1/28/2025	METALS	2501280955C	Vanadium, Total	0.002	mg/L	0.050	0.0007		RB J FB
1/28/2025	METALS	2501280955C	Magnesium, Total	96.4	mg/L	1.0	0.03		
1/28/2025	METALS	2501280955C	Iron, Total	0.24	mg/L	0.10	0.07		
1/28/2025	METALS	2501280955C	Aluminum, Total	0.1	mg/L	0.10	0.03		
1/28/2025	METALS	2501280955C	Calcium, Total	158	mg/L	1.0	0.3		
1/28/2025	METALS	2501280955C	Chromium, Total	0.002	mg/L	0.010	0.002		J
1/28/2025	METALS	2501280955C	Barium, Total	0.043	mg/L	0.020	0.003		RB J FB
1/28/2025	METALS	2501280955C	Arsenic, Total	0.0014	mg/L	0.0010	0.0004		
1/28/2025	METALS	2501280955C	Antimony, Total	0.0004	mg/L	0.0010	0.0002		J
1/28/2025	METALS	2501280955C	Manganese, Total	0.016	mg/L	0.010	0.004		
1/28/2025	ANIONS	2501280957C	Fluoride, undistilled	1.43	mg/L	0.10	0.010		
1/28/2025	ANIONS	2501280957C	Sulfate	748	mg/L	20	4		
1/28/2025	ANIONS	2501280957C	Chloride	178	mg/L	20	5		
1/28/2025	ANIONS	2501280957C	Alkalinity, Total as CaCO3	216	mg/L	2.0	1.8		
1/28/2025	SM2540C	2501280958C	Total Dissolved Solids (TDS)	1620	mg/L	15	14		
1/28/2025	6850	2501280959C	Perchlorate	1.1	ug/L	0.20	0.047		
1/28/2025	353.2	2501281000C	Nitrate+Nitrite as Nitrogen	7.91	mg/L	0.50	0.02		

Analytical Results for Sampling Events at 600C-005-GW

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	8270	2411151033A	Butane, 2-methoxy-2-methyl-	700	ug/L	NA	NA		J TIC
11/15/2024	8270	2411151033A	Unknown	4	ug/L	NA	NA		J TIC
11/15/2024	METALS	2411151034A	Barium, Total	0.02	mg/L	0.02	0.003		J
11/15/2024	METALS	2411151034A	Strontium, Total	1.86	mg/L	0.1	0.002		
11/15/2024	METALS	2411151034A	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
11/15/2024	METALS	2411151034A	Sodium, Total	39.1	mg/L	1	0.3		
11/15/2024	METALS	2411151034A	Vanadium, Total	0.004	mg/L	0.05	0.0007		J
11/15/2024	METALS	2411151034A	Potassium, Total	3	mg/L	2	0.4		
11/15/2024	METALS	2411151034A	Nickel, Total	0.041	mg/L	0.04	0.003		
11/15/2024	METALS	2411151034A	Magnesium, Total	53	mg/L	1	0.03		
11/15/2024	METALS	2411151034A	Iron, Total	0.21	mg/L	0.1	0.07		
11/15/2024	METALS	2411151034A	Chromium, Total	0.009	mg/L	0.01	0.002		J
11/15/2024	METALS	2411151034A	Boron, Total	0.07	mg/L	0.2	0.02		J
11/15/2024	METALS	2411151034A	Arsenic, Total	0.001	mg/L	0.001	0.0004		
11/15/2024	METALS	2411151034A	Calcium, Total	77.5	mg/L	1	0.3		
11/15/2024	METALS	2411151034A	Manganese, Total	0.005	mg/L	0.01	0.004		J
11/15/2024	METALS	2411151035A	Calcium, Total	77.9	mg/L	1	0.3		
11/15/2024	METALS	2411151035A	Vanadium, Total	0.005	mg/L	0.05	0.0007		J
11/15/2024	METALS	2411151035A	Strontium, Total	1.86	mg/L	0.1	0.002		
11/15/2024	METALS	2411151035A	Sodium, Total	39.4	mg/L	1	0.3		
11/15/2024	METALS	2411151035A	Potassium, Total	3	mg/L	2	0.4		
11/15/2024	METALS	2411151035A	Nickel, Total	0.041	mg/L	0.04	0.003		
11/15/2024	METALS	2411151035A	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
11/15/2024	METALS	2411151035A	Manganese, Total	0.005	mg/L	0.01	0.004		J
11/15/2024	METALS	2411151035A	Magnesium, Total	53.2	mg/L	1	0.03		
11/15/2024	METALS	2411151035A	Chromium, Total	0.009	mg/L	0.01	0.002		J
11/15/2024	METALS	2411151035A	Boron, Total	0.07	mg/L	0.2	0.02		J
11/15/2024	METALS	2411151035A	Barium, Total	0.019	mg/L	0.02	0.003		J
11/15/2024	METALS	2411151035A	Arsenic, Total	0.0009	mg/L	0.001	0.0004		J
11/15/2024	METALS	2411151035A	Iron, Total	0.22	mg/L	0.1	0.07		
11/15/2024	ANIONS	2411151036A	Chloride	30	mg/L	2	0.5		
11/15/2024	ANIONS	2411151036A	Fluoride, undistilled	0.72	mg/L	0.1	0.01		
11/15/2024	ANIONS	2411151036A	Sulfate	193	mg/L	20	4		
11/15/2024	ANIONS	2411151036A	Alkalinity, Total as CaCO3	230	mg/L	2	1.8		
11/15/2024	SM2540C	2411151037A	Total Dissolved Solids (TDS)	602	mg/L	10	9		
11/15/2024	6850	2411151038A	Perchlorate	0.36	ug/L	0.20	0.047		
11/15/2024	353.2	2411151039A	Nitrate+Nitrite as Nitrogen	1.27	mg/L	0.05	0.002		

Analytical Results for Sampling Events at 600-C-173

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/15/2024	SM2540C	2411150945C	Total Dissolved Solids (TDS)	11000	mg/L	77	70		
11/15/2024	351.2	2411150947C	Nitrogen, Total Kjeldahl (TKN)	0.19	mg/L	0.2	0.15		J FB
11/15/2024	300.0	2411150949C	Chloride	7350	mg/L	200	50		
11/15/2024	353.2	2411150951C	Nitrate+Nitrite as Nitrogen	7.3	mg/L	1	0.03		

Analytical Results for Sampling Events at 600-G-138

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/27/2025	8260	2501271000A	Trichloroethene (TCE)	47	ug/L	1.0	0.20		
1/27/2025	8260	2501271000A	Trichlorofluoromethane (CFC 11)	0.36	ug/L	1.0	0.24		J
1/27/2025	8260	2501271000A	1,1,2-Trichloro-1,2,2-Trifluoroethane	32	ug/L	1.0	0.20		
1/27/2025	8260	2501271000A	Chloroform	0.59	ug/L	1.0	0.51		J
1/27/2025	8260	2501271000A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.61	ug/L	1.0	0.20		J
1/27/2025	8260	2501271001A	1,1,2-Trichloro-1,2,2-Trifluoroethane	33	ug/L	1	0.2		
1/27/2025	8260	2501271001A	Chloroform	0.64	ug/L	1	0.51		J
1/27/2025	8260	2501271001A	Trichloroethene (TCE)	49	ug/L	1	0.2		
1/27/2025	8260	2501271001A	Trichlorofluoromethane (CFC 11)	0.49	ug/L	1	0.24		J
1/27/2025	8260	2501271001A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.64	ug/L	1	0.2		J
1/27/2025	METALS	2501271003A	Sodium, Total	133	mg/L	1.0	0.3		
1/27/2025	METALS	2501271003A	Arsenic, Total	0.0017	mg/L	0.0010	0.0004		
1/27/2025	METALS	2501271003A	Barium, Total	0.045	mg/L	0.020	0.003		RB J
1/27/2025	METALS	2501271003A	Boron, Total	0.7	mg/L	0.20	0.02		
1/27/2025	METALS	2501271003A	Chromium, Total	0.003	mg/L	0.010	0.002		J
1/27/2025	METALS	2501271003A	Selenium, Total	0.015	mg/L	0.010	0.007		
1/27/2025	METALS	2501271003A	Strontium, Total	5.09	mg/L	0.10	0.002		
1/27/2025	METALS	2501271003A	Vanadium, Total	0.002	mg/L	0.050	0.0007		RB J
1/27/2025	METALS	2501271003A	Zinc, Total	0.01	mg/L	0.020	0.003		J
1/27/2025	METALS	2501271003A	Magnesium, Total	94.7	mg/L	1.0	0.03		
1/27/2025	METALS	2501271003A	Molybdenum, Total	0.014	mg/L	0.025	0.003		J
1/27/2025	METALS	2501271003A	Nickel, Total	0.03	mg/L	0.040	0.003		J
1/27/2025	METALS	2501271003A	Potassium, Total	4.3	mg/L	2.0	0.4		
1/27/2025	METALS	2501271003A	Calcium, Total	137	mg/L	1.0	0.3		
1/27/2025	300.0	2501271004A	Chloride	181	mg/L	6.0	1.3		
1/27/2025	353.2	2501271005A	Nitrate+Nitrite as Nitrogen	10.9	mg/L	0.50	0.02		

Analytical Results for Sampling Events at 700-B-510

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/2/2024	8260	2412020940C	Unknown	28	ug/L	NA	NA		J TIC
12/2/2024	METALS	2412020943C	Nickel, Total	0.018	mg/L	0.040	0.003		J
12/2/2024	METALS	2412020943C	Barium, Total	0.019	mg/L	0.020	0.003		J
12/2/2024	METALS	2412020943C	Zinc, Total	0.003	mg/L	0.020	0.003		J
12/2/2024	METALS	2412020943C	Vanadium, Total	0.009	mg/L	0.050	0.0007		J
12/2/2024	METALS	2412020943C	Strontium, Total	0.85	mg/L	0.10	0.002		
12/2/2024	METALS	2412020943C	Sodium, Total	88.5	mg/L	1.0	0.3		
12/2/2024	METALS	2412020943C	Potassium, Total	1.3	mg/L	2.0	0.4		J
12/2/2024	METALS	2412020943C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
12/2/2024	METALS	2412020943C	Magnesium, Total	7.4	mg/L	1.0	0.03		
12/2/2024	METALS	2412020943C	Boron, Total	0.14	mg/L	0.20	0.02		J
12/2/2024	METALS	2412020943C	Arsenic, Total	0.0021	mg/L	0.0010	0.0004		
12/2/2024	METALS	2412020943C	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
12/2/2024	METALS	2412020943C	Calcium, Total	18.8	mg/L	1.0	0.3		
12/2/2024	METALS	2412020944C	Nickel, Total	0.018	mg/L	0.040	0.003		J
12/2/2024	METALS	2412020944C	Calcium, Total	18.9	mg/L	1.0	0.3		
12/2/2024	METALS	2412020944C	Vanadium, Total	0.009	mg/L	0.050	0.0007		J
12/2/2024	METALS	2412020944C	Strontium, Total	0.85	mg/L	0.10	0.002		
12/2/2024	METALS	2412020944C	Sodium, Total	89.4	mg/L	1.0	0.3		
12/2/2024	METALS	2412020944C	Potassium, Total	1.3	mg/L	2.0	0.4		J
12/2/2024	METALS	2412020944C	Magnesium, Total	7.5	mg/L	1.0	0.03		
12/2/2024	METALS	2412020944C	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
12/2/2024	METALS	2412020944C	Boron, Total	0.14	mg/L	0.20	0.02		J
12/2/2024	METALS	2412020944C	Barium, Total	0.019	mg/L	0.020	0.003		J
12/2/2024	METALS	2412020944C	Arsenic, Total	0.0021	mg/L	0.0010	0.0004		
12/2/2024	METALS	2412020944C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
12/2/2024	ANIONS	2412020945C	Sulfate	154	mg/L	20	4		
12/2/2024	ANIONS	2412020945C	Alkalinity, Total as CaCO3	84.2	mg/L	2.0	1.8		
12/2/2024	ANIONS	2412020945C	Chloride	24.2	mg/L	2.0	0.5		
12/2/2024	ANIONS	2412020945C	Fluoride, undistilled	0.31	mg/L	0.10	0.010		
12/2/2024	6850	2412020946C	Perchlorate	0.51	ug/L	0.20	0.047		
12/2/2024	353.2	2412020947C	Total Dissolved Solids (TDS)	370	mg/L	10	9		
12/2/2024	300.0	2412020949C	Chloride	23.9	mg/L	2.0	0.5		
12/2/2024	353.2	2412020950C	Nitrate+Nitrite as Nitrogen	1.47	mg/L	0.050	0.002		

Analytical Results for Sampling Events at BLM-10-517

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/3/2025	8260_LL	2501031000A	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.23	ug/L	0.50	0.20		J
1/3/2025	METALS	2501031005A	Nickel, Total	0.034	mg/L	0.040	0.003		J
1/3/2025	METALS	2501031005A	Zinc, Total	0.003	mg/L	0.020	0.003		J
1/3/2025	METALS	2501031005A	Vanadium, Total	0.004	mg/L	0.050	0.0007		RB J
1/3/2025	METALS	2501031005A	Strontium, Total	2.3	mg/L	0.10	0.002		
1/3/2025	METALS	2501031005A	Sodium, Total	41	mg/L	1.0	0.3		
1/3/2025	METALS	2501031005A	Potassium, Total	3.7	mg/L	2.0	0.4		
1/3/2025	METALS	2501031005A	Molybdenum, Total	0.01	mg/L	0.025	0.003		RB J
1/3/2025	METALS	2501031005A	Magnesium, Total	66.1	mg/L	1.0	0.03		
1/3/2025	METALS	2501031005A	Calcium, Total	100	mg/L	1.0	0.3		
1/3/2025	METALS	2501031005A	Boron, Total	0.07	mg/L	0.20	0.02		J
1/3/2025	METALS	2501031005A	Arsenic, Total	0.0006	mg/L	0.0010	0.0004		J
1/3/2025	METALS	2501031005A	Barium, Total	0.019	mg/L	0.020	0.003		J

Analytical Results for Sampling Events at BLM-15-305

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/13/2025	8260	2501131400C	Trichlorofluoromethane (CFC 11)	93	ug/L	1.0	0.24		
1/13/2025	8260	2501131400C	Trichloroethene (TCE)	9.8	ug/L	1.0	0.20		
1/13/2025	8260	2501131400C	Unknown	42	ug/L	NA	NA		J TIC
1/13/2025	8260	2501131400C	1,1,2-Trichloro-1,2,2-Trifluoroethane	39	ug/L	1.0	0.20		
1/13/2025	8260	2501131400C	Dichlorofluoromethane (CFC 21)	3.5	ug/L	1.0	0.20		
1/13/2025	8260	2501131400C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	2.3	ug/L	1.0	0.20		
1/13/2025	8260	2501131400C	Bromoform	0.54	ug/L	1.0	0.25		J
1/13/2025	8260	2501131400C	Tetrachloroethene (PCE)	0.5	ug/L	1.0	0.21		J
1/13/2025	607	2501131402C	N-Nitrosodimethylamine	6.14	µg/L	0.048	0.024	35	D
1/13/2025	607	2501131402C	N-Nitrodimethylamine	3.97	µg/L	0.048	0.024	64	D
1/13/2025	607	2501131402C	Bromacil	0.3	µg/L	0.048	0.024	94	D
1/13/2025	METALS	2501131403C	Manganese, Total	0.135	mg/L	0.010	0.004		
1/13/2025	METALS	2501131403C	Zinc, Total	0.004	mg/L	0.020	0.003		J
1/13/2025	METALS	2501131403C	Vanadium, Total	0.001	mg/L	0.050	0.0007		J
1/13/2025	METALS	2501131403C	Strontium, Total	2.42	mg/L	0.10	0.002		
1/13/2025	METALS	2501131403C	Sodium, Total	87.2	mg/L	1.0	0.3		
1/13/2025	METALS	2501131403C	Potassium, Total	3.5	mg/L	2.0	0.4		
1/13/2025	METALS	2501131403C	Molybdenum, Total	0.013	mg/L	0.025	0.003		J
1/13/2025	METALS	2501131403C	Magnesium, Total	62.7	mg/L	1.0	0.03		
1/13/2025	METALS	2501131403C	Calcium, Total	98.3	mg/L	1.0	0.3		
1/13/2025	METALS	2501131403C	Boron, Total	0.24	mg/L	0.20	0.02		
1/13/2025	METALS	2501131403C	Barium, Total	0.044	mg/L	0.020	0.003		
1/13/2025	METALS	2501131403C	Arsenic, Total	0.0105	mg/L	0.0010	0.0004		
1/13/2025	METALS	2501131403C	Antimony, Total	0.0015	mg/L	0.0010	0.0002		
1/13/2025	METALS	2501131403C	Nickel, Total	0.029	mg/L	0.040	0.003		J
1/13/2025	ANIONS	2501131404C	Alkalinity, Total as CaCO3	280	mg/L	6.0	5.4		
1/13/2025	ANIONS	2501131404C	Sulfate	238	mg/L	20	4		
1/13/2025	ANIONS	2501131404C	Chloride	57.7	mg/L	2.0	0.5		
1/13/2025	ANIONS	2501131404C	Fluoride, undistilled	0.84	mg/L	0.10	0.010		
1/13/2025	SM2540C	2501131405C	Total Dissolved Solids (TDS)	1010	mg/L	10	9		
1/13/2025	6850	2501131406C	Perchlorate	0.6	ug/L	0.20	0.047		
1/13/2025	353.2	2501131407C	Nitrate+Nitrite as Nitrogen	5.1	mg/L	1.0	0.03		

Analytical Results for Sampling Events at BLM-17-493

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/7/2024	8260	2411070938A	Trichloroethene (TCE)	48	ug/L	1.0	0.20		
11/7/2024	8260	2411070938A	Trichlorofluoromethane (CFC 11)	44	ug/L	1.0	0.24		
11/7/2024	8260	2411070938A	Dichlorofluoromethane (CFC 21)	0.39	ug/L	1.0	0.20		J
11/7/2024	8260	2411070938A	1,1,2-Trichloro-1,2,2-Trifluoroethane	68	ug/L	1.0	0.20		
11/7/2024	8260	2411070938A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.67	ug/L	1.0	0.20		J
11/7/2024	8260	2411070938A	Tetrachloroethene (PCE)	1.7	ug/L	1.0	0.21		
11/7/2024	607	2411070940A	N-Nitrosodimethylamine	0.75	µg/L	0.0097	0.0049	44	
11/7/2024	607	2411070940A	N-Nitrodimethylamine	0.72	µg/L	0.0097	0.0049	73	
11/7/2024	607	2411070940A	Bromacil	0.49	µg/L	0.0097	0.0049	88	
11/7/2024	METALS	2411070941A	Magnesium, Total	73.8	mg/L	1.0	0.03		
11/7/2024	METALS	2411070941A	Zinc, Total	0.039	mg/L	0.020	0.003		
11/7/2024	METALS	2411070941A	Vanadium, Total	0.01	mg/L	0.050	0.0007		J
11/7/2024	METALS	2411070941A	Strontium, Total	3.33	mg/L	0.10	0.002		
11/7/2024	METALS	2411070941A	Sodium, Total	43.2	mg/L	1.0	0.3		
11/7/2024	METALS	2411070941A	Potassium, Total	3.9	mg/L	2.0	0.4		
11/7/2024	METALS	2411070941A	Nickel, Total	0.155	mg/L	0.040	0.003		
11/7/2024	METALS	2411070941A	Manganese, Total	0.019	mg/L	0.010	0.004		
11/7/2024	METALS	2411070941A	Copper, Total	0.006	mg/L	0.020	0.004		J
11/7/2024	METALS	2411070941A	Cobalt, Total	0.002	mg/L	0.050	0.0009		J
11/7/2024	METALS	2411070941A	Chromium, Total	0.627	mg/L	0.010	0.002		
11/7/2024	METALS	2411070941A	Calcium, Total	123	mg/L	1.0	0.3		
11/7/2024	METALS	2411070941A	Boron, Total	0.09	mg/L	0.20	0.02		J
11/7/2024	METALS	2411070941A	Barium, Total	0.031	mg/L	0.020	0.003		
11/7/2024	METALS	2411070941A	Arsenic, Total	0.0035	mg/L	0.0010	0.0004		
11/7/2024	METALS	2411070941A	Antimony, Total	0.0004	mg/L	0.0010	0.0002		J
11/7/2024	METALS	2411070941A	Iron, Total	4.12	mg/L	0.10	0.07		
11/7/2024	METALS	2411070941A	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
11/7/2024	ANIONS	2411070942A	Alkalinity, Total as CaCO3	206	mg/L	2.0	1.8		
11/7/2024	ANIONS	2411070942A	Sulfate	357	mg/L	20	4		
11/7/2024	ANIONS	2411070942A	Fluoride, undistilled	0.82	mg/L	0.10	0.010		
11/7/2024	ANIONS	2411070942A	Chloride	72.6	mg/L	2.0	0.5		
11/7/2024	SM2540C	2411070943A	Total Dissolved Solids (TDS)	922	mg/L	10	9		
11/7/2024	6850	2411070944A	Perchlorate	0.55	ug/L	0.20	0.047		
11/7/2024	353.2	2411070945A	Nitrate+Nitrite as Nitrogen	3.03	mg/L	0.25	0.008		

Analytical Results for Sampling Events at BLM-17-550

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/13/2025	8260	2501131030C	Trichlorofluoromethane (CFC 11)	85	ug/L	1.0	0.24		
1/13/2025	8260	2501131030C	1,1,2-Trichloro-1,2,2-Trifluoroethane	200	ug/L	1.0	0.20		
1/13/2025	8260	2501131030C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.92	ug/L	1.0	0.20		J
1/13/2025	8260	2501131030C	Trichloroethene (TCE)	75	ug/L	1.0	0.20		
1/13/2025	8260	2501131030C	Dichlorofluoromethane (CFC 21)	0.38	ug/L	1.0	0.20		J
1/13/2025	8260	2501131030C	Tetrachloroethene (PCE)	2.8	ug/L	1.0	0.21		
1/13/2025	8260	2501131030C	Unknown	40	ug/L	NA	NA		J TIC
1/13/2025	607	2501131032C	N-Nitrosodimethylamine	0.29	µg/L	0.0095	0.0048	35	
1/13/2025	607	2501131032C	N-Nitrodimethylamine	0.34	µg/L	0.0095	0.0048	64	
1/13/2025	607	2501131032C	Bromacil	0.08	µg/L	0.0095	0.0048	94	
1/13/2025	607	2501131033C	N-Nitrosodimethylamine	0.29	µg/L	0.0095	0.0048	35	
1/13/2025	607	2501131033C	N-Nitrodimethylamine	0.35	µg/L	0.0095	0.0048	64	
1/13/2025	607	2501131033C	Bromacil	0.1	µg/L	0.0095	0.0048	94	
1/13/2025	METALS	2501131034C	Nickel, Total	0.041	mg/L	0.040	0.003		
1/13/2025	METALS	2501131034C	Magnesium, Total	61.9	mg/L	1.0	0.03		
1/13/2025	METALS	2501131034C	Zinc, Total	0.006	mg/L	0.020	0.003		J
1/13/2025	METALS	2501131034C	Vanadium, Total	0.006	mg/L	0.050	0.0007		J
1/13/2025	METALS	2501131034C	Strontium, Total	3.25	mg/L	0.10	0.002		
1/13/2025	METALS	2501131034C	Sodium, Total	56.5	mg/L	1.0	0.3		
1/13/2025	METALS	2501131034C	Potassium, Total	5.7	mg/L	2.0	0.4		
1/13/2025	METALS	2501131034C	Barium, Total	0.036	mg/L	0.020	0.003		
1/13/2025	METALS	2501131034C	Arsenic, Total	0.0017	mg/L	0.0010	0.0004		
1/13/2025	METALS	2501131034C	Iron, Total	0.58	mg/L	0.10	0.07		
1/13/2025	METALS	2501131034C	Chromium, Total	0.038	mg/L	0.010	0.002		
1/13/2025	METALS	2501131034C	Calcium, Total	119	mg/L	1.0	0.3		
1/13/2025	METALS	2501131034C	Boron, Total	0.08	mg/L	0.20	0.02		J
1/13/2025	METALS	2501131034C	Manganese, Total	0.006	mg/L	0.010	0.004		J
1/13/2025	METALS	2501131034C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
1/13/2025	ANIONS	2501131035C	Sulfate	319	mg/L	20	4		
1/13/2025	ANIONS	2501131035C	Fluoride, undistilled	0.58	mg/L	0.10	0.010		
1/13/2025	ANIONS	2501131035C	Alkalinity, Total as CaCO3	226	mg/L	2.0	1.8		
1/13/2025	ANIONS	2501131035C	Chloride	59.5	mg/L	2.0	0.5		
1/13/2025	SM2540C	2501131036C	Total Dissolved Solids (TDS)	842	mg/L	10	9		
1/13/2025	6850	2501131037C	Perchlorate	0.49	ug/L	0.20	0.047		
1/13/2025	353.2	2501131038C	Nitrate+Nitrite as Nitrogen	2.16	mg/L	0.50	0.02		

Analytical Results for Sampling Events at BLM-18-430

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/17/2025	8260	2501170930B	Tetrachloroethene (PCE)	0.69	ug/L	1.0	0.21		J Q
1/17/2025	8260	2501170930B	Trichlorofluoromethane (CFC 11)	21	ug/L	1.0	0.24		Q
1/17/2025	8260	2501170930B	1,1,2-Trichloro-1,2,2-Trifluoroethane	23	ug/L	1.0	0.20		Q
1/17/2025	8260	2501170930B	Trichloroethene (TCE)	18	ug/L	1.0	0.20		Q
1/17/2025	8260	2501170930B	Toluene	0.3	ug/L	1.0	0.20		J
1/17/2025	METALS	2501170934B	Magnesium, Total	57.5	mg/L	1.0	0.03		Q RB
1/17/2025	METALS	2501170934B	Zinc, Total	0.009	mg/L	0.020	0.003		J Q
1/17/2025	METALS	2501170934B	Vanadium, Total	0.003	mg/L	0.050	0.0007		J Q RB
1/17/2025	METALS	2501170934B	Strontium, Total	2.51	mg/L	0.10	0.002		
1/17/2025	METALS	2501170934B	Sodium, Total	55.7	mg/L	1.0	0.3		
1/17/2025	METALS	2501170934B	Potassium, Total	6.8	mg/L	2.0	0.4		
1/17/2025	METALS	2501170934B	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
1/17/2025	METALS	2501170934B	Calcium, Total	92.7	mg/L	1.0	0.3		
1/17/2025	METALS	2501170934B	Boron, Total	0.14	mg/L	0.20	0.02		J Q
1/17/2025	METALS	2501170934B	Barium, Total	0.026	mg/L	0.020	0.003		Q RB
1/17/2025	METALS	2501170934B	Arsenic, Total	0.0019	mg/L	0.0010	0.0004		
1/17/2025	METALS	2501170934B	Nickel, Total	0.043	mg/L	0.040	0.003		Q
1/17/2025	ANIONS	2501170935B	Chloride	40.4	mg/L	2.0	0.5		
1/17/2025	ANIONS	2501170935B	Fluoride, undistilled	0.45	mg/L	0.10	0.010		
1/17/2025	ANIONS	2501170935B	Alkalinity, Total as CaCO3	231	mg/L	2.0	1.8		
1/17/2025	ANIONS	2501170935B	Sulfate	282	mg/L	20	4		
1/17/2025	SM2540C	2501170936B	Total Dissolved Solids (TDS)	770	mg/L	10	9		
1/17/2025	6850	2501170937B	Perchlorate	0.38	ug/L	0.20	0.047		
1/17/2025	353.2	2501170938B	Nitrate+Nitrite as Nitrogen	1.28	mg/L	0.050	0.002		

Analytical Results for Sampling Events at BLM-24-565

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/4/2024	8260_LL	2411041318C	1,2-Dichloroethane	2.6	ug/L	0.50	0.20		
11/4/2024	8260_LL	2411041318C	Unknown	12	ug/L	NA	NA		J TIC
11/4/2024	NDMA_LL	2411041321C	N-Nitrosodimethylamine	0.42	ng/L	0.48	0.35		J

Analytical Results for Sampling Events at BLM-2-630

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/6/2024	8260	2411061408A	Unknown	27	ug/L	NA	NA		J TIC
11/6/2024	8260	2411061408A	Trichloroethene (TCE)	1	ug/L	1.0	0.20		
11/6/2024	8260	2411061408A	Trichlorofluoromethane (CFC 11)	0.26	ug/L	1.0	0.24		J
11/6/2024	METALS	2411061415A	Barium, Total	0.026	mg/L	0.020	0.003		
11/6/2024	METALS	2411061415A	Vanadium, Total	0.009	mg/L	0.050	0.0007		J
11/6/2024	METALS	2411061415A	Strontium, Total	2.55	mg/L	0.10	0.002		
11/6/2024	METALS	2411061415A	Sodium, Total	56.5	mg/L	1.0	0.3		
11/6/2024	METALS	2411061415A	Nickel, Total	0.053	mg/L	0.040	0.003		
11/6/2024	METALS	2411061415A	Potassium, Total	8.2	mg/L	2.0	0.4		
11/6/2024	METALS	2411061415A	Magnesium, Total	49.2	mg/L	1.0	0.03		
11/6/2024	METALS	2411061415A	Chromium, Total	0.011	mg/L	0.010	0.002		
11/6/2024	METALS	2411061415A	Boron, Total	0.1	mg/L	0.20	0.02		J
11/6/2024	METALS	2411061415A	Molybdenum, Total	0.016	mg/L	0.025	0.003		J
11/6/2024	METALS	2411061415A	Arsenic, Total	0.001	mg/L	0.0010	0.0004		
11/6/2024	METALS	2411061415A	Calcium, Total	76.1	mg/L	1.0	0.3		

Analytical Results for Sampling Events at BLM-26-404

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/14/2024	8260	2411140900A	Tetrachloroethene (PCE)	0.64	ug/L	1.0	0.21		J
11/14/2024	8260	2411140900A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.34	ug/L	1.0	0.20		J
11/14/2024	8260	2411140900A	Trichloroethene (TCE)	23	ug/L	1.0	0.20		
11/14/2024	8260	2411140900A	Dichlorofluoromethane (CFC 21)	0.36	ug/L	1.0	0.20		J
11/14/2024	8260	2411140900A	1,1,2-Trichloro-1,2,2-Trifluoroethane	73	ug/L	1.0	0.20		
11/14/2024	8260	2411140900A	Trichlorofluoromethane (CFC 11)	83	ug/L	1.0	0.24		
11/14/2024	607	2411140902A	Bromacil	0.007	µg/L	0.0095	0.0048	99	J
11/14/2024	607	2411140902A	N-Nitrosodimethylamine	0.14	µg/L	0.0095	0.0048	47	
11/14/2024	607	2411140902A	N-Nitrodimethylamine	0.08	µg/L	0.0095	0.0048	80	

Analytical Results for Sampling Events at BLM-27-270

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/10/2024	8260	2412100930A	Trichlorofluoromethane (CFC 11)	410	ug/L	5.0	1.2		D
12/10/2024	8260	2412100930A	Unknown	35	ug/L	NA	NA		J
12/10/2024	8260	2412100930A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	5.2	ug/L	1.0	0.20		
12/10/2024	8260	2412100930A	Trichloroethene (TCE)	0.87	ug/L	1.0	0.20		J
12/10/2024	8260	2412100930A	1,1,2-Trichloro-1,2,2-Trifluoroethane	180	ug/L	1.0	0.20		
12/10/2024	8260	2412100930A	Dichlorofluoromethane (CFC 21)	4.3	ug/L	1.0	0.20		
12/10/2024	8260	2412100932A	1,1,2-Trichloro-1,2,2-Trifluoroethane	190	ug/L	1.0	0.20		
12/10/2024	8260	2412100932A	Dichlorofluoromethane (CFC 21)	4.4	ug/L	1.0	0.20		
12/10/2024	8260	2412100932A	Trichloroethene (TCE)	0.97	ug/L	1.0	0.20		J
12/10/2024	8260	2412100932A	Trichlorofluoromethane (CFC 11)	440	ug/L	5.0	1.2		D
12/10/2024	8260	2412100932A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	5.7	ug/L	1.0	0.20		
12/10/2024	8260	2412100932A	Unknown	33	ug/L	NA	NA		J
12/10/2024	607	2412100933A	Bromacil	0.12	µg/L	0.0095	0.0048	89	
12/10/2024	607	2412100933A	N-Nitrosodimethylamine	2.34	µg/L	0.0095	0.0048	57	
12/10/2024	607	2412100933A	N-Nitrodimethylamine	1.35	µg/L	0.0095	0.0048	91	
12/10/2024	607	2412100934A	Bromacil	0.12	µg/L	0.0094	0.0047	89	
12/10/2024	607	2412100934A	N-Nitrosodimethylamine	2.47	µg/L	0.0094	0.0047	57	
12/10/2024	607	2412100934A	N-Nitrodimethylamine	1.43	µg/L	0.0094	0.0047	91	
12/10/2024	METALS	2412100935A	Magnesium, Total	19.6	mg/L	1.0	0.03		
12/10/2024	METALS	2412100935A	Vanadium, Total	0.005	mg/L	0.050	0.0007		J
12/10/2024	METALS	2412100935A	Strontium, Total	1.76	mg/L	0.10	0.002		
12/10/2024	METALS	2412100935A	Sodium, Total	114	mg/L	1.0	0.3		
12/10/2024	METALS	2412100935A	Potassium, Total	3.1	mg/L	2.0	0.4		
12/10/2024	METALS	2412100935A	Molybdenum, Total	0.007	mg/L	0.025	0.003		J
12/10/2024	METALS	2412100935A	Zinc, Total	0.021	mg/L	0.020	0.003		
12/10/2024	METALS	2412100935A	Chromium, Total	0.007	mg/L	0.010	0.002		J
12/10/2024	METALS	2412100935A	Calcium, Total	46.5	mg/L	1.0	0.3		
12/10/2024	METALS	2412100935A	Boron, Total	0.08	mg/L	0.20	0.02		J
12/10/2024	METALS	2412100935A	Barium, Total	0.046	mg/L	0.020	0.003		
12/10/2024	METALS	2412100935A	Arsenic, Total	0.0011	mg/L	0.0010	0.0004		
12/10/2024	METALS	2412100935A	Nickel, Total	0.023	mg/L	0.040	0.003		J

Analytical Results for Sampling Events at BLM-3-182

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/7/2024	8260	2411071353A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1	ug/L	1.0	0.20		
11/7/2024	8260	2411071353A	Trichlorofluoromethane (CFC 11)	0.41	ug/L	1.0	0.24		J
11/7/2024	8260	2411071353A	1,1,2-Trichloro-1,2,2-Trifluoroethane	300	ug/L	5.0	1.0		D
11/7/2024	8260	2411071353A	Trichloroethene (TCE)	20	ug/L	1.0	0.20		
11/7/2024	607	2411071355A	Bromacil	3.58	µg/L	0.0095	0.0048	88	
11/7/2024	8270	2411071359A	Butane, 2-methoxy-2-methyl-	520	ug/L	NA	NA		J TIC
11/7/2024	METALS	2411071402A	Iron, Total	3.14	mg/L	0.10	0.07		
11/7/2024	METALS	2411071402A	Molybdenum, Total	0.021	mg/L	0.025	0.003		J
11/7/2024	METALS	2411071402A	Zinc, Total	0.005	mg/L	0.020	0.003		J
11/7/2024	METALS	2411071402A	Vanadium, Total	0.002	mg/L	0.050	0.0007		J
11/7/2024	METALS	2411071402A	Strontium, Total	15.3	mg/L	1.0	0.02		
11/7/2024	METALS	2411071402A	Sodium, Total	204	mg/L	1.0	0.3		
11/7/2024	METALS	2411071402A	Selenium, Total	0.047	mg/L	0.010	0.007		
11/7/2024	METALS	2411071402A	Potassium, Total	7.3	mg/L	2.0	0.4		
11/7/2024	METALS	2411071402A	Nickel, Total	0.272	mg/L	0.040	0.003		
11/7/2024	METALS	2411071402A	Boron, Total	0.22	mg/L	0.20	0.02		
11/7/2024	METALS	2411071402A	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
11/7/2024	METALS	2411071402A	Barium, Total	0.03	mg/L	0.020	0.003		
11/7/2024	METALS	2411071402A	Calcium, Total	450	mg/L	10	3		
11/7/2024	METALS	2411071402A	Chromium, Total	0.589	mg/L	0.010	0.002		
11/7/2024	METALS	2411071402A	Cobalt, Total	0.003	mg/L	0.050	0.0009		J
11/7/2024	METALS	2411071402A	Copper, Total	0.008	mg/L	0.020	0.004		J
11/7/2024	METALS	2411071402A	Magnesium, Total	273	mg/L	1.0	0.03		
11/7/2024	METALS	2411071402A	Manganese, Total	0.033	mg/L	0.010	0.004		
11/7/2024	METALS	2411071402A	Arsenic, Total	0.0016	mg/L	0.0010	0.0004		
11/7/2024	353.2	2411071403A	Nitrate+Nitrite as Nitrogen	6.3	mg/L	0.25	0.008		

Analytical Results for Sampling Events at BLM-32-543

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/4/2024	8260	2411041300B	Unknown	29	ug/L	NA	NA		J TIC
11/4/2024	NDMA_LL	2411041303B	N-Nitrosodimethylamine	1	ng/L	0.48	0.35		FB

Analytical Results for Sampling Events at BLM-32-571

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/4/2024	8260	2411041325B	Unknown	28	ug/L	NA	NA		J TIC
11/4/2024	NDMA_LL	2411041327B	N-Nitrosodimethylamine	0.39	ng/L	0.49	0.35		J

Analytical Results for Sampling Events at BLM-32-632

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/4/2024	8260	2411041406B	Unknown	27	ug/L	NA	NA		J TIC
11/4/2024	NDMA_LL	2411041408B	N-Nitrosodimethylamine	0.66	ng/L	0.47	0.34		K
11/4/2024	NDMA_LL	2411041426B	N-Nitrosodimethylamine	0.41	ng/L	0.48	0.35		J K

Analytical Results for Sampling Events at BLM-36-350

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/8/2024	8260	2411081335Y	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	4.3	ug/L	1.0	0.20		
11/8/2024	8260	2411081335Y	Dichlorofluoromethane (CFC 21)	7.1	ug/L	1.0	0.20		
11/8/2024	8260	2411081335Y	Tetrachloroethene (PCE)	2.7	ug/L	1.0	0.21		
11/8/2024	8260	2411081335Y	Trichloroethene (TCE)	64	ug/L	1.0	0.20		
11/8/2024	8260	2411081335Y	Trichlorofluoromethane (CFC 11)	31	ug/L	1.0	0.24		
11/8/2024	8260	2411081335Y	cis-1,2-Dichloroethene	0.47	ug/L	1.0	0.23		J
11/8/2024	8260	2411081335Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	58	ug/L	1.0	0.20		
11/8/2024	8260	2411081336Y	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	5.8	ug/L	1.0	0.20		
11/8/2024	8260	2411081336Y	cis-1,2-Dichloroethene	0.31	ug/L	1.0	0.23		J
11/8/2024	8260	2411081336Y	Trichlorofluoromethane (CFC 11)	42	ug/L	1.0	0.24		
11/8/2024	8260	2411081336Y	Trichloroethene (TCE)	62	ug/L	1.0	0.20		
11/8/2024	8260	2411081336Y	Tetrachloroethene (PCE)	2.9	ug/L	1.0	0.21		
11/8/2024	8260	2411081336Y	1,1,2-Trichloro-1,2,2-Trifluoroethane	84	ug/L	1.0	0.20		
11/8/2024	8260	2411081336Y	Dichlorofluoromethane (CFC 21)	6.7	ug/L	1.0	0.20		
11/8/2024	607	2411081337Y	Bromacil	0.68	µg/L	0.0096	0.0048	88	
11/8/2024	607	2411081337Y	N-Nitrodimethylamine	0.51	µg/L	0.0096	0.0048	73	
11/8/2024	607	2411081337Y	N-Nitrosodimethylamine	0.5	µg/L	0.0096	0.0048	44	
11/8/2024	607	2411081400Y	N-Nitrosodimethylamine	0.45	µg/L	0.0094	0.0047	44	
11/8/2024	607	2411081400Y	N-Nitrodimethylamine	0.47	µg/L	0.0094	0.0047	73	
11/8/2024	607	2411081400Y	Bromacil	0.66	µg/L	0.0094	0.0047	88	

Analytical Results for Sampling Events at BLM-36-610

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/6/2024	8260	2411061030Y	Unknown	31	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at BLM-38-620

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/13/2024	NDMA_LL	2411131046Y	N-Nitrosodimethylamine	0.61	ng/L	0.49	0.36		EB

Analytical Results for Sampling Events at BLM-42-569

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/9/2024	8260_LL	2412091401A	Unknown	37	ug/L	NA	NA		J TIC
12/9/2024	NDMA_LL	2412091403A	N-Nitrosodimethylamine	0.88	ng/L	0.49	0.36		A K RB FB

Analytical Results for Sampling Events at BLM-42-709

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/9/2024	8260_LL	2412091000A	Unknown	13	ug/L	NA	NA		J TIC
12/9/2024	NDMA_LL	2412091003A	N-Nitrosodimethylamine	0.87	ng/L	0.49	0.36		A K RB FB
12/9/2024	NDMA_LL	2412091006A	N-Nitrosodimethylamine	6.29	ng/L	0.47	0.34		A RB FB
12/9/2024	NDMA_LL	2412091006A	N-Nitrodimethylamine	5.19	ng/L	0.47	0.33		

Analytical Results for Sampling Events at BLM-6-488

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/2/2025	8260	2501021015A	Trichloroethene (TCE)	2.8	ug/L	1.0	0.20		
1/2/2025	8260	2501021015A	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.8	ug/L	1.0	0.20		
1/2/2025	8260	2501021015A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.23	ug/L	1.0	0.20		J
1/2/2025	607	2501021017A	Bromacil	0.6	µg/L	0.0095	0.0048	107	
1/2/2025	NDMA_LL	2501021019A	N-Nitrosodimethylamine	0.97	ng/L	0.47	0.34		
1/2/2025	8270	2501021021A	Butane, 2-methoxy-2-methyl-	380	ug/L	NA	NA		J RB TIC
1/2/2025	8270	2501021021A	Cyclohexane	18	ug/L	NA	NA		J RB TIC
1/2/2025	8270	2501021021A	Phenol, 4-(1,1-dimethylpropyl)-	9.9	ug/L	NA	NA		J RB TIC
1/2/2025	8270	2501021021A	Di-n-butyl Phthalate	32	ug/L	10	1.7		RB
1/2/2025	8270	2501021021A	Unknown	4.5	ug/L	NA	NA		J TIC
1/2/2025	METALS	2501021023A	Barium, Total	0.039	mg/L	0.020	0.003		
1/2/2025	METALS	2501021023A	Arsenic, Total	0.0013	mg/L	0.0010	0.0004		
1/2/2025	METALS	2501021023A	Selenium, Total	0.008	mg/L	0.010	0.007		J
1/2/2025	METALS	2501021023A	Boron, Total	0.12	mg/L	0.20	0.02		J
1/2/2025	METALS	2501021023A	Calcium, Total	142	mg/L	1.0	0.3		
1/2/2025	METALS	2501021023A	Chromium, Total	0.076	mg/L	0.010	0.002		
1/2/2025	METALS	2501021023A	Cobalt, Total	0.009	mg/L	0.050	0.0009		J
1/2/2025	METALS	2501021023A	Iron, Total	0.66	mg/L	0.10	0.07		
1/2/2025	METALS	2501021023A	Magnesium, Total	73.9	mg/L	1.0	0.03		
1/2/2025	METALS	2501021023A	Manganese, Total	0.044	mg/L	0.010	0.004		
1/2/2025	METALS	2501021023A	Molybdenum, Total	0.023	mg/L	0.025	0.003		RB J
1/2/2025	METALS	2501021023A	Antimony, Total	0.0003	mg/L	0.0010	0.0002		J
1/2/2025	METALS	2501021023A	Sodium, Total	81.4	mg/L	1.0	0.3		
1/2/2025	METALS	2501021023A	Nickel, Total	0.754	mg/L	0.040	0.003		
1/2/2025	METALS	2501021023A	Zinc, Total	0.013	mg/L	0.020	0.003		J
1/2/2025	METALS	2501021023A	Vanadium, Total	0.002	mg/L	0.050	0.0007		RB J
1/2/2025	METALS	2501021023A	Thallium, Total	0.00007	mg/L	0.0010	0.00004		J
1/2/2025	METALS	2501021023A	Potassium, Total	4.9	mg/L	2.0	0.4		
1/2/2025	METALS	2501021023A	Strontium, Total	5.98	mg/L	0.10	0.002		
1/2/2025	ANIONS	2501021024A	Sulfate	466	mg/L	20	4		
1/2/2025	ANIONS	2501021024A	Fluoride, undistilled	0.79	mg/L	0.10	0.010		
1/2/2025	ANIONS	2501021024A	Chloride	143	mg/L	8.0	1.7		
1/2/2025	ANIONS	2501021024A	Alkalinity, Total as CaCO3	119	mg/L	2.0	1.8		
1/2/2025	SM2540C	2501021025A	Total Dissolved Solids (TDS)	1070	mg/L	13	12		
1/2/2025	6850	2501021027A	Perchlorate	1.5	ug/L	0.20	0.047		
1/2/2025	353.2	2501021028A	Nitrate+Nitrite as Nitrogen	5.6	mg/L	0.50	0.02		

Analytical Results for Sampling Events at BLM-7-509

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/9/2024	8260_LL	2412090910C	Unknown	34	ug/L	NA	NA		J TIC
12/9/2024	NDMA_LL	2412090912C	N-Nitrosodimethylamine	0.97	ng/L	0.47	0.34		A K RB TB FB

Analytical Results for Sampling Events at BLM-8-418

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/4/2024	8260_LL	2411040910C	Trichloroethene (TCE)	0.22	ug/L	0.50	0.20		J
11/4/2024	8260_LL	2411040910C	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.33	ug/L	0.50	0.20		J
11/4/2024	8260_LL	2411040910C	Unknown	32	ug/L	NA	NA		J TIC
11/4/2024	8260_LL	2411040910C	Trichlorofluoromethane (CFC 11)	0.25	ug/L	0.50	0.24		J
11/4/2024	NDMA_LL	2411040912C	N-Nitrosodimethylamine	0.43	ng/L	0.48	0.35		J

Analytical Results for Sampling Events at BW-4-330

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/27/2024	8260	2411270925C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.2	ug/L	1.0	0.20		
11/27/2024	8260	2411270925C	Unknown	38	ug/L	NA	NA		J TIC
11/27/2024	8260	2411270925C	trans-1,2-Dichloroethene	0.23	ug/L	1.0	0.20		J
11/27/2024	8260	2411270925C	cis-1,2-Dichloroethene	0.82	ug/L	1.0	0.23		J
11/27/2024	8260	2411270925C	Trichlorofluoromethane (CFC 11)	75	ug/L	1.0	0.24		
11/27/2024	8260	2411270925C	Trichloroethene (TCE)	71	ug/L	1.0	0.20		
11/27/2024	8260	2411270925C	Tetrachloroethene (PCE)	2.1	ug/L	1.0	0.21		
11/27/2024	8260	2411270925C	Dichlorofluoromethane (CFC 21)	0.43	ug/L	1.0	0.20		J
11/27/2024	8260	2411270925C	Chloroform	1.3	ug/L	1.0	0.51		
11/27/2024	8260	2411270925C	1,1,2-Trichloro-1,2,2-Trifluoroethane	170	ug/L	2.5	0.50		D
11/27/2024	8260	2411270925C	Unknown	5.5	ug/L	NA	NA		J TIC
11/27/2024	607	2411270927C	Bromacil	0.23	µg/L	0.0095	0.0048	92	
11/27/2024	607	2411270927C	N-Nitrodimethylamine	0.05	µg/L	0.0095	0.0048	93	
11/27/2024	8270	2411270928C	Trichloroethene (TCE)	6.9	ug/L	NA	NA		J TIC
11/27/2024	8270	2411270928C	Butane, 2-methoxy-2-methyl-	690	ug/L	NA	NA		J TIC RB
11/27/2024	METALS	2411270929C	Chromium, Total	0.013	mg/L	0.010	0.002		
11/27/2024	METALS	2411270929C	Selenium, Total	0.008	mg/L	0.010	0.007		J
11/27/2024	METALS	2411270929C	Aluminum, Total	0.1	mg/L	0.10	0.03		
11/27/2024	METALS	2411270929C	Antimony, Total	0.0003	mg/L	0.0010	0.0002		J
11/27/2024	METALS	2411270929C	Arsenic, Total	0.0009	mg/L	0.0010	0.0004		J
11/27/2024	METALS	2411270929C	Barium, Total	0.062	mg/L	0.020	0.003		
11/27/2024	METALS	2411270929C	Boron, Total	0.15	mg/L	0.20	0.02		J
11/27/2024	METALS	2411270929C	Calcium, Total	171	mg/L	1.0	0.3		
11/27/2024	METALS	2411270929C	Iron, Total	0.82	mg/L	0.10	0.07		
11/27/2024	METALS	2411270929C	Manganese, Total	0.006	mg/L	0.010	0.004		J
11/27/2024	METALS	2411270929C	Molybdenum, Total	0.012	mg/L	0.025	0.003		J
11/27/2024	METALS	2411270929C	Magnesium, Total	5.6	mg/L	1.0	0.03		
11/27/2024	METALS	2411270929C	Potassium, Total	7.4	mg/L	2.0	0.4		
11/27/2024	METALS	2411270929C	Sodium, Total	62.9	mg/L	1.0	0.3		
11/27/2024	METALS	2411270929C	Strontium, Total	2.24	mg/L	0.10	0.002		
11/27/2024	METALS	2411270929C	Vanadium, Total	0.001	mg/L	0.050	0.0007		J
11/27/2024	METALS	2411270929C	Zinc, Total	0.004	mg/L	0.020	0.003		J
11/27/2024	METALS	2411270929C	Nickel, Total	0.016	mg/L	0.040	0.003		J
11/27/2024	ANIONS	2411270930C	Alkalinity, Total as CaCO3	61.1	mg/L	2.0	1.8		
11/27/2024	ANIONS	2411270930C	Chloride	74.6	mg/L	2.0	0.5		
11/27/2024	ANIONS	2411270930C	Fluoride, undistilled	0.49	mg/L	0.10	0.010		
11/27/2024	ANIONS	2411270930C	Sulfate	371	mg/L	20	4		
11/27/2024	SM2540C	2411270931C	Total Dissolved Solids (TDS)	754	mg/L	10	9		

Analytical Results for Sampling Events at BW-4-330

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/27/2024	6850	2411270932C	Perchlorate	0.68	ug/L	0.20	0.047		T
11/27/2024	353.2	2411270933C	Nitrate+Nitrite as Nitrogen	2.92	mg/L	0.25	0.008		

Analytical Results for Sampling Events at BW-5-295

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/8/2024	8260	2411081016A	Dichlorofluoromethane (CFC 21)	0.58	ug/L	1.0	0.20		J
11/8/2024	8260	2411081016A	1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	1.0	0.20		
11/8/2024	8260	2411081016A	Trichloroethene (TCE)	0.45	ug/L	1.0	0.20		J
11/8/2024	8260	2411081016A	Trichlorofluoromethane (CFC 11)	77	ug/L	1.0	0.24		
11/8/2024	8260	2411081017A	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.1	ug/L	1.0	0.20		
11/8/2024	8260	2411081017A	Dichlorofluoromethane (CFC 21)	0.48	ug/L	1.0	0.20		J
11/8/2024	8260	2411081017A	Trichloroethene (TCE)	0.46	ug/L	1.0	0.20		J
11/8/2024	8260	2411081017A	Trichlorofluoromethane (CFC 11)	75	ug/L	1.0	0.24		
11/8/2024	607	2411081019A	Bromacil	0.04	µg/L	0.0097	0.0049	88	
11/8/2024	607	2411081019A	N-Nitrosodimethylamine	0.46	µg/L	0.0097	0.0049	44	
11/8/2024	607	2411081019A	N-Nitrodimethylamine	2.16	µg/L	0.0097	0.0049	73	
11/8/2024	METALS	2411081020A	Nickel, Total	0.022	mg/L	0.040	0.003		J
11/8/2024	METALS	2411081020A	Molybdenum, Total	0.038	mg/L	0.025	0.003		
11/8/2024	METALS	2411081020A	Chromium, Total	0.01	mg/L	0.010	0.002		J
11/8/2024	METALS	2411081020A	Calcium, Total	34.1	mg/L	1.0	0.3		
11/8/2024	METALS	2411081020A	Boron, Total	0.56	mg/L	0.20	0.02		
11/8/2024	METALS	2411081020A	Barium, Total	0.012	mg/L	0.020	0.003		J
11/8/2024	METALS	2411081020A	Silver, Total	0.001	mg/L	0.010	0.0006		J
11/8/2024	METALS	2411081020A	Antimony, Total	0.0002	mg/L	0.0010	0.0002		J
11/8/2024	METALS	2411081020A	Sodium, Total	119	mg/L	1.0	0.3		
11/8/2024	METALS	2411081020A	Arsenic, Total	0.001	mg/L	0.0010	0.0004		J
11/8/2024	METALS	2411081020A	Strontium, Total	1.19	mg/L	0.10	0.002		
11/8/2024	METALS	2411081020A	Vanadium, Total	0.008	mg/L	0.050	0.0007		J
11/8/2024	METALS	2411081020A	Zinc, Total	0.012	mg/L	0.020	0.003		J
11/8/2024	METALS	2411081020A	Magnesium, Total	21.6	mg/L	1.0	0.03		
11/8/2024	METALS	2411081020A	Potassium, Total	1.4	mg/L	2.0	0.4		J
11/8/2024	ANIONS	2411081022A	Alkalinity, Total as CaCO3	218	mg/L	2.0	1.8		
11/8/2024	ANIONS	2411081022A	Chloride	33	mg/L	0.20	0.05		
11/8/2024	ANIONS	2411081022A	Fluoride, undistilled	2.24	mg/L	0.10	0.010		
11/8/2024	ANIONS	2411081022A	Sulfate	140	mg/L	20	4		
11/8/2024	SM2540C	2411081023A	Total Dissolved Solids (TDS)	521	mg/L	10	9		
11/8/2024	6850	2411081024A	Perchlorate	0.85	ug/L	0.20	0.047		
11/8/2024	353.2	2411081025A	Nitrate+Nitrite as Nitrogen	4.6	mg/L	0.50	0.02		

Analytical Results for Sampling Events at BW-7-211

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/10/2024	8260	2412101340A	1,1,2-Trichloro-1,2,2-Trifluoroethane	7.3	ug/L	1.0	0.20		Q
12/10/2024	8260	2412101340A	Dichlorofluoromethane (CFC 21)	0.28	ug/L	1.0	0.20		J
12/10/2024	8260	2412101340A	Trichloroethene (TCE)	1.1	ug/L	1.0	0.20		Q
12/10/2024	8260	2412101340A	Trichlorofluoromethane (CFC 11)	130	ug/L	1.0	0.24		Q
12/10/2024	8260	2412101340A	Unknown	37	ug/L	NA	NA		J
12/10/2024	607	2412101342A	Bromacil	3.72	µg/L	0.01	0.0052	89	
12/10/2024	607	2412101342A	N-Nitrosodimethylamine	1.04	µg/L	0.01	0.0052	57	
12/10/2024	607	2412101342A	N-Nitrodimethylamine	4.78	µg/L	0.01	0.0052	91	
12/10/2024	METALS	2412101343A	Calcium, Total	75	mg/L	1.0	0.3		
12/10/2024	METALS	2412101343A	Vanadium, Total	0.003	mg/L	0.050	0.0007		J
12/10/2024	METALS	2412101343A	Zinc, Total	0.017	mg/L	0.020	0.003		J
12/10/2024	METALS	2412101343A	Antimony, Total	0.0003	mg/L	0.0010	0.0002		J
12/10/2024	METALS	2412101343A	Magnesium, Total	56.8	mg/L	1.0	0.03		
12/10/2024	METALS	2412101343A	Sodium, Total	74.5	mg/L	1.0	0.3		
12/10/2024	METALS	2412101343A	Strontium, Total	2.34	mg/L	0.10	0.002		
12/10/2024	METALS	2412101343A	Nickel, Total	0.034	mg/L	0.040	0.003		J
12/10/2024	METALS	2412101343A	Molybdenum, Total	0.01	mg/L	0.025	0.003		J
12/10/2024	METALS	2412101343A	Chromium, Total	0.007	mg/L	0.010	0.002		J
12/10/2024	METALS	2412101343A	Boron, Total	0.22	mg/L	0.20	0.02		
12/10/2024	METALS	2412101343A	Barium, Total	0.037	mg/L	0.020	0.003		
12/10/2024	METALS	2412101343A	Arsenic, Total	0.0005	mg/L	0.0010	0.0004		J
12/10/2024	METALS	2412101343A	Potassium, Total	3.2	mg/L	2.0	0.4		

Analytical Results for Sampling Events at JER-1-483

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/14/2025	8260_LL	2501141252B	Toluene	0.49	ug/L	0.50	0.20		J
1/14/2025	8260_LL	2501141252B	Unknown	41	ug/L	NA	NA		J TIC
1/14/2025	NDMA_LL	2501141254B	N-Nitrosodimethylamine	0.67	ng/L	0.47	0.34		A
1/14/2025	NDMA_LL	2501141255B	N-Nitrosodimethylamine	0.81	ng/L	0.48	0.35		A
1/14/2025	8270	2501141257B	1,4-Dioxane	0.47	ug/L	0.040	0.035		

Analytical Results for Sampling Events at JER-1-563

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/14/2025	8260_LL	2501141318B	Vinyl Chloride	0.24	ug/L	0.50	0.20		J
1/14/2025	8260_LL	2501141318B	Unknown	40	ug/L	NA	NA		J TIC
1/14/2025	8260_LL	2501141318B	Toluene	0.32	ug/L	0.50	0.20		J
1/14/2025	NDMA_LL	2501141320B	N-Nitrodimethylamine	0.91	ng/L	0.48	0.34		
1/14/2025	NDMA_LL	2501141320B	N-Nitrosodimethylamine	1.22	ng/L	0.48	0.35		A
1/14/2025	8270	2501141322B	1,4-Dioxane	0.94	ug/L	0.040	0.035		

Analytical Results for Sampling Events at JER-1-683

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/14/2025	8260_LL	2501141340B	Unknown	40	ug/L	NA	NA		J TIC
1/14/2025	8260_LL	2501141340B	Vinyl Chloride	0.26	ug/L	0.50	0.20		J
1/14/2025	NDMA_LL	2501141342B	N-Nitrosodimethylamine	2.7	ng/L	0.48	0.35		A
1/14/2025	8270	2501141344B	1,4-Dioxane	1.2	ug/L	0.040	0.035		

Analytical Results for Sampling Events at JER-2-504

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	8260_LL	2501151302B	Toluene	0.6	ug/L	0.50	0.20		
1/15/2025	NDMA_LL	2501151304B	N-Nitrosodimethylamine	1.04	ng/L	0.47	0.34		
1/15/2025	8270	2501151306B	1,4-Dioxane	0.36	ug/L	0.040	0.035		

Analytical Results for Sampling Events at JER-2-584

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	NDMA_LL	2501151322B	N-Nitrosodimethylamine	1.1	ng/L	0.49	0.35		
1/15/2025	8270	2501151324B	1,4-Dioxane	0.67	ug/L	0.040	0.035		

Analytical Results for Sampling Events at JER-2-684

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	8260_LL	2501151338B	Toluene	0.46	ug/L	0.50	0.20		J
1/15/2025	NDMA_LL	2501151340B	N-Nitrosodimethylamine	1.47	ng/L	0.48	0.35		
1/15/2025	8270	2501151342B	1,4-Dioxane	0.66	ug/L	0.040	0.035		

Analytical Results for Sampling Events at JP-2-447

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/6/2025	8260_LL	2501061420C	Toluene	0.27	ug/L	0.50	0.20		J

Analytical Results for Sampling Events at JP-3-509

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/16/2025	METALS	2501161340C	Molybdenum, Total	0.006	mg/L	0.025	0.003		J
1/16/2025	METALS	2501161340C	Sodium, Total	41	mg/L	1.0	0.3		
1/16/2025	METALS	2501161340C	Arsenic, Total	0.0008	mg/L	0.0010	0.0004		J
1/16/2025	METALS	2501161340C	Zinc, Total	0.004	mg/L	0.020	0.003		J
1/16/2025	METALS	2501161340C	Calcium, Total	92	mg/L	1.0	0.3		
1/16/2025	METALS	2501161340C	Strontium, Total	2.3	mg/L	0.10	0.002		
1/16/2025	METALS	2501161340C	Potassium, Total	3.3	mg/L	2.0	0.4		
1/16/2025	METALS	2501161340C	Nickel, Total	0.032	mg/L	0.040	0.003		J
1/16/2025	METALS	2501161340C	Magnesium, Total	68.3	mg/L	1.0	0.03		RB
1/16/2025	METALS	2501161340C	Boron, Total	0.07	mg/L	0.20	0.02		J
1/16/2025	METALS	2501161340C	Barium, Total	0.022	mg/L	0.020	0.003		RB
1/16/2025	METALS	2501161340C	Vanadium, Total	0.004	mg/L	0.050	0.0007		RB J
1/16/2025	METALS	2501161341C	Calcium, Total	94.4	mg/L	1.0	0.3		
1/16/2025	METALS	2501161341C	Zinc, Total	0.005	mg/L	0.020	0.003		J
1/16/2025	METALS	2501161341C	Vanadium, Total	0.004	mg/L	0.050	0.0007		RB J
1/16/2025	METALS	2501161341C	Strontium, Total	2.35	mg/L	0.10	0.002		
1/16/2025	METALS	2501161341C	Sodium, Total	42.3	mg/L	1.0	0.3		
1/16/2025	METALS	2501161341C	Potassium, Total	3.4	mg/L	2.0	0.4		
1/16/2025	METALS	2501161341C	Nickel, Total	0.03	mg/L	0.040	0.003		J
1/16/2025	METALS	2501161341C	Magnesium, Total	70	mg/L	1.0	0.03		RB
1/16/2025	METALS	2501161341C	Boron, Total	0.07	mg/L	0.20	0.02		J
1/16/2025	METALS	2501161341C	Barium, Total	0.023	mg/L	0.020	0.003		RB
1/16/2025	METALS	2501161341C	Arsenic, Total	0.0006	mg/L	0.0010	0.0004		J
1/16/2025	METALS	2501161341C	Molybdenum, Total	0.007	mg/L	0.025	0.003		J
1/16/2025	ANIONS	2501161342C	Alkalinity, Total as CaCO3	227	mg/L	2.0	1.8		
1/16/2025	ANIONS	2501161342C	Chloride	40.1	mg/L	2.0	0.5		
1/16/2025	ANIONS	2501161342C	Fluoride, undistilled	0.67	mg/L	0.10	0.010		
1/16/2025	ANIONS	2501161342C	Sulfate	308	mg/L	20	4		
1/16/2025	SM2540C	2501161343C	Total Dissolved Solids (TDS)	798	mg/L	10	9		
1/16/2025	6850	2501161344C	Perchlorate	0.26	ug/L	0.20	0.047		
1/16/2025	353.2	2501161345C	Nitrate+Nitrite as Nitrogen	0.617	mg/L	0.050	0.002		

Analytical Results for Sampling Events at JP-3-689

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/16/2025	METALS	2501160946C	Vanadium, Total	0.004	mg/L	0.050	0.0007		RB J
1/16/2025	METALS	2501160946C	Strontium, Total	2.24	mg/L	0.10	0.002		
1/16/2025	METALS	2501160946C	Nickel, Total	0.028	mg/L	0.040	0.003		J
1/16/2025	METALS	2501160946C	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
1/16/2025	METALS	2501160946C	Magnesium, Total	66.7	mg/L	1.0	0.03		RB
1/16/2025	METALS	2501160946C	Calcium, Total	90.1	mg/L	1.0	0.3		
1/16/2025	METALS	2501160946C	Boron, Total	0.07	mg/L	0.20	0.02		J
1/16/2025	METALS	2501160946C	Barium, Total	0.022	mg/L	0.020	0.003		RB
1/16/2025	METALS	2501160946C	Sodium, Total	40.3	mg/L	1.0	0.3		
1/16/2025	METALS	2501160946C	Potassium, Total	3.2	mg/L	2.0	0.4		
1/16/2025	METALS	2501160946C	Zinc, Total	0.006	mg/L	0.020	0.003		J
1/16/2025	METALS	2501160946C	Arsenic, Total	0.0008	mg/L	0.0010	0.0004		J
1/16/2025	ANIONS	2501160947C	Alkalinity, Total as CaCO3	230	mg/L	2.0	1.8		
1/16/2025	ANIONS	2501160947C	Chloride	40.3	mg/L	2.0	0.5		
1/16/2025	ANIONS	2501160947C	Fluoride, undistilled	0.67	mg/L	0.10	0.010		
1/16/2025	ANIONS	2501160947C	Sulfate	308	mg/L	20	4		
1/16/2025	SM2540C	2501160948C	Total Dissolved Solids (TDS)	789	mg/L	10	9		
1/16/2025	6850	2501160949C	Perchlorate	0.26	ug/L	0.20	0.047		
1/16/2025	353.2	2501160950C	Nitrate+Nitrite as Nitrogen	0.618	mg/L	0.050	0.002		

Analytical Results for Sampling Events at NASA 4

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	SM2540C	2411181026C	Total Dissolved Solids (TDS)	972	mg/L	10	9		
11/18/2024	351.2	2411181027C	Nitrogen, Total Kjeldahl (TKN)	0.25	mg/L	0.20	0.15		
11/18/2024	300.0	2411181028C	Chloride	155	mg/L	4.0	0.9		
11/18/2024	353.2	2411181029C	Nitrate+Nitrite as Nitrogen	4.59	mg/L	0.50	0.02		

Analytical Results for Sampling Events at NASA 6

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/20/2024	8260	2411201031C	1,1,2-Trichloro-1,2,2-Trifluoroethane	82	ug/L	1.0	0.20		
11/20/2024	8260	2411201031C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	5.5	ug/L	1.0	0.20		
11/20/2024	8260	2411201031C	Trichlorofluoromethane (CFC 11)	190	ug/L	2.5	0.60		D
11/20/2024	8260	2411201031C	Trichloroethene (TCE)	0.42	ug/L	1.0	0.20		J
11/20/2024	8260	2411201031C	Dichlorofluoromethane (CFC 21)	7.1	ug/L	1.0	0.20		
11/20/2024	8260	2411201031C	4-Methyl-2-pentanone	0.56	ug/L	5.0	0.20		J
11/20/2024	607	2411201033C	N-Nitrosodimethylamine	20.95	µg/L	0.95	0.48	52	D
11/20/2024	607	2411201033C	N-Nitrodimethylamine	30.19	µg/L	0.95	0.48	86	D
11/20/2024	607	2411201033C	Bromacil	0.95	µg/L	0.95	0.48	104	D
11/20/2024	607	2411201033C	N-Nitrosodimethylamine	15.63	µg/L	0.0095	0.0048	52	G
11/20/2024	607	2411201033C	N-Nitrodimethylamine	33.51	µg/L	0.0095	0.0048	86	G
11/20/2024	607	2411201033C	Bromacil	1.5	µg/L	0.0095	0.0048	104	
11/20/2024	607	2411201034C	Bromacil	1.25	µg/L	0.96	0.48	104	D
11/20/2024	607	2411201034C	N-Nitrosodimethylamine	24.33	µg/L	0.96	0.48	52	D
11/20/2024	607	2411201034C	N-Nitrosodimethylamine	16.53	µg/L	0.0096	0.0048	52	G
11/20/2024	607	2411201034C	N-Nitrodimethylamine	33.94	µg/L	0.96	0.48	86	D
11/20/2024	607	2411201034C	N-Nitrodimethylamine	36.06	µg/L	0.0096	0.0048	86	G
11/20/2024	607	2411201034C	Bromacil	1.41	µg/L	0.0096	0.0048	104	
11/20/2024	METALS	2411201035C	Iron, Total	0.22	mg/L	0.10	0.07		
11/20/2024	METALS	2411201035C	Zinc, Total	0.003	mg/L	0.020	0.003		J
11/20/2024	METALS	2411201035C	Vanadium, Total	0.004	mg/L	0.050	0.0007		J
11/20/2024	METALS	2411201035C	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
11/20/2024	METALS	2411201035C	Strontium, Total	2.72	mg/L	0.10	0.002		
11/20/2024	METALS	2411201035C	Sodium, Total	136	mg/L	1.0	0.3		
11/20/2024	METALS	2411201035C	Potassium, Total	3.7	mg/L	2.0	0.4		
11/20/2024	METALS	2411201035C	Nickel, Total	0.031	mg/L	0.040	0.003		J
11/20/2024	METALS	2411201035C	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
11/20/2024	METALS	2411201035C	Magnesium, Total	78.1	mg/L	1.0	0.03		
11/20/2024	METALS	2411201035C	Chromium, Total	0.031	mg/L	0.010	0.002		QD
11/20/2024	METALS	2411201035C	Boron, Total	0.44	mg/L	0.20	0.02		
11/20/2024	METALS	2411201035C	Barium, Total	0.065	mg/L	0.020	0.003		
11/20/2024	METALS	2411201035C	Arsenic, Total	0.001	mg/L	0.0010	0.0004		J
11/20/2024	METALS	2411201035C	Calcium, Total	95.5	mg/L	1.0	0.3		
11/20/2024	METALS	2411201035C	Manganese, Total	0.021	mg/L	0.010	0.004		
11/20/2024	METALS	2411201036C	Chromium, Total	0.044	mg/L	0.010	0.002		QD
11/20/2024	METALS	2411201036C	Iron, Total	0.29	mg/L	0.10	0.07		
11/20/2024	METALS	2411201036C	Magnesium, Total	82.9	mg/L	1.0	0.03		
11/20/2024	METALS	2411201036C	Manganese, Total	0.025	mg/L	0.010	0.004		

Analytical Results for Sampling Events at NASA 6

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/20/2024	METALS	2411201036C	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
11/20/2024	METALS	2411201036C	Potassium, Total	4	mg/L	2.0	0.4		
11/20/2024	METALS	2411201036C	Sodium, Total	144	mg/L	1.0	0.3		
11/20/2024	METALS	2411201036C	Strontium, Total	2.87	mg/L	0.10	0.002		
11/20/2024	METALS	2411201036C	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
11/20/2024	METALS	2411201036C	Vanadium, Total	0.004	mg/L	0.050	0.0007		J
11/20/2024	METALS	2411201036C	Zinc, Total	0.004	mg/L	0.020	0.003		J
11/20/2024	METALS	2411201036C	Nickel, Total	0.033	mg/L	0.040	0.003		J
11/20/2024	METALS	2411201036C	Arsenic, Total	0.0011	mg/L	0.0010	0.0004		
11/20/2024	METALS	2411201036C	Barium, Total	0.077	mg/L	0.020	0.003		
11/20/2024	METALS	2411201036C	Aluminum, Total	0.03	mg/L	0.10	0.03		J
11/20/2024	METALS	2411201036C	Boron, Total	0.47	mg/L	0.20	0.02		
11/20/2024	METALS	2411201036C	Calcium, Total	101	mg/L	1.0	0.3		
11/20/2024	353.2	2411201037C	Nitrate+Nitrite as Nitrogen	28.6	mg/L	1.0	0.03		

Analytical Results for Sampling Events at PL-10-484

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/17/2025	NDMA_LL	2501221040Y	N-Nitrosodimethylamine	3.8	ng/L	0.49	0.36		RB

Analytical Results for Sampling Events at PL-10-592

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/16/2025	8260_LL	2501161425Y	Toluene	0.25	ug/L	0.50	0.20		J
1/16/2025	NDMA_LL	2501161426Y	N-Nitrosodimethylamine	0.72	ng/L	0.49	0.36		*
1/16/2025	NDMA_LL	2501161427Y	N-Nitrosodimethylamine	0.94	ng/L	0.48	0.35		

Analytical Results for Sampling Events at PL-11-470

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/2/2024	8260_LL	2412021221B	Unknown	40	ug/L	NA	NA		J TIC
12/2/2024	8260_LL	2412021221B	Toluene	0.43	ug/L	0.50	0.20		J
12/2/2024	8260_LL	2412021221B	Trichloroethene (TCE)	0.29	ug/L	0.50	0.20		J
12/2/2024	8260_LL	2412021221B	Trichlorofluoromethane (CFC 11)	0.33	ug/L	0.50	0.24		J
12/2/2024	NDMA_LL	2412021225B	N-Nitrosodimethylamine	1.72	ng/L	0.49	0.35		
12/2/2024	8270	2412021230B	1,4-Dioxane	0.89	ug/L	0.040	0.035		

Analytical Results for Sampling Events at PL-11-530

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/2/2024	8260_LL	2412021236B	Unknown	41	ug/L	NA	NA		J TIC
12/2/2024	8260_LL	2412021238B	Unknown	40	ug/L	NA	NA		J TIC
12/2/2024	NDMA_LL	2412021242B	N-Nitrosodimethylamine	0.46	ng/L	0.48	0.35		J
12/2/2024	8270	2412021246B	1,4-Dioxane	0.28	ug/L	0.040	0.035		

Analytical Results for Sampling Events at PL-11-710

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/3/2024	8260_LL	2412031215B	Unknown	41	ug/L	NA	NA		J TIC
12/3/2024	NDMA_LL	2412031218B	N-Nitrosodimethylamine	0.77	ng/L	0.47	0.34		
12/3/2024	8270	2412031222B	1,4-Dioxane	0.31	ug/L	0.040	0.035		

Analytical Results for Sampling Events at PL-11-820

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/3/2024	8260_LL	2412031230B	Unknown	38	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at PL-11-980

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/3/2024	8260_LL	2412031250B	Unknown	32	ug/L	NA	NA		J TIC
12/3/2024	8260_LL	2412031250B	Toluene	0.23	ug/L	0.50	0.20		J
12/3/2024	NDMA_LL	2412031255B	N-Nitrosodimethylamine	0.38	ng/L	0.47	0.34		J

Analytical Results for Sampling Events at PL-12-570

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/13/2024	8260	2411131000A	Trichlorofluoromethane (CFC 11)	5.9	ug/L	1.0	0.24		
11/13/2024	8260	2411131000A	Trichloroethene (TCE)	6.5	ug/L	1.0	0.20		
11/13/2024	8260	2411131000A	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.5	ug/L	1.0	0.20		
11/13/2024	8260	2411131001A	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.3	ug/L	1.0	0.20		
11/13/2024	8260	2411131001A	Trichloroethene (TCE)	6.7	ug/L	1.0	0.20		
11/13/2024	8260	2411131001A	Trichlorofluoromethane (CFC 11)	6.1	ug/L	1.0	0.24		
11/13/2024	NDMA_LL	2411131003A	N-Nitrosodimethylamine	0.69	ng/L	0.49	0.35		

Analytical Results for Sampling Events at PL-12-800

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/13/2024	8260	2411131420A	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.5	ug/L	1.0	0.20		
11/13/2024	8260	2411131420A	Trichloroethene (TCE)	5.5	ug/L	1.0	0.20		
11/13/2024	8260	2411131420A	Trichlorofluoromethane (CFC 11)	5.2	ug/L	1.0	0.24		
11/13/2024	NDMA_LL	2411131422A	N-Nitrosodimethylamine	1.29	ng/L	0.49	0.36		
11/13/2024	NDMA_LL	2411131423A	N-Nitrosodimethylamine	1.33	ng/L	0.49	0.35		

Analytical Results for Sampling Events at PL-1-486

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	8260_LL	2501151350C	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.88	ug/L	0.50	0.20		
1/15/2025	8260_LL	2501151352C	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.85	ug/L	0.50	0.20		

Analytical Results for Sampling Events at PL-2-504

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/16/2024	8260	2412161010A	Trichlorofluoromethane (CFC 11)	33	ug/L	1.0	0.24		
12/16/2024	8260	2412161010A	Tetrachloroethene (PCE)	0.77	ug/L	1.0	0.21		J
12/16/2024	8260	2412161010A	Dichlorofluoromethane (CFC 21)	0.34	ug/L	1.0	0.20		J
12/16/2024	8260	2412161010A	1,1,2-Trichloro-1,2,2-Trifluoroethane	28	ug/L	1.0	0.20		
12/16/2024	8260	2412161010A	Trichloroethene (TCE)	46	ug/L	1.0	0.20		
12/16/2024	8260	2412161010A	Unknown	33	ug/L	NA	NA		J TIC
12/16/2024	8260	2412161010A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.23	ug/L	1.0	0.20		J
12/16/2024	607	2412161012A	N-Nitrodimethylamine	0.01	µg/L	0.0098	0.0049	91	
12/16/2024	607	2412161012A	Bromacil	0.008	µg/L	0.0098	0.0049	82	J
12/16/2024	607	2412161013A	N-Nitrodimethylamine	0.008	µg/L	0.0094	0.0047	91	J
12/16/2024	607	2412161013A	Bromacil	0.007	µg/L	0.0094	0.0047	82	J
12/16/2024	NDMA_LL	2412161014A	N-Nitrosodimethylamine	24.71	ng/L	0.47	0.34		
12/16/2024	NDMA_LL	2412161014A	N-Nitrodimethylamine	13.65	ng/L	0.47	0.33		
12/16/2024	NDMA_LL	2412161016A	N-Nitrosodimethylamine	24.16	ng/L	0.48	0.35		
12/16/2024	NDMA_LL	2412161016A	N-Nitrodimethylamine	13.1	ng/L	0.48	0.33		

Analytical Results for Sampling Events at PL-4-464

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/2/2024	8260	2412021450C	Unknown	37	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at PL-6-1195

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/22/2025	NDMA_LL	2501231418Y	N-Nitrosodimethylamine	0.67	ng/L	0.49	0.35		K RB TB EB
1/22/2025	METALS	2501231419Y	Selenium, Total	0.01	mg/L	0.010	0.007		J RB
1/22/2025	METALS	2501231419Y	Cadmium, Total	0.0005	mg/L	0.0050	0.0004		J
1/22/2025	METALS	2501231419Y	Thallium, Total	0.0001	mg/L	0.0010	0.00004		J
1/22/2025	METALS	2501231419Y	Beryllium, Total	0.0002	mg/L	0.0030	0.0002		J
1/22/2025	METALS	2501231419Y	Boron, Total	0.35	mg/L	0.20	0.02		
1/22/2025	METALS	2501231419Y	Cobalt, Total	0.002	mg/L	0.050	0.0009		J RB
1/22/2025	METALS	2501231419Y	Iron, Total	0.09	mg/L	0.10	0.07		J
1/22/2025	METALS	2501231419Y	Magnesium, Total	43.1	mg/L	1.0	0.03		RB
1/22/2025	METALS	2501231419Y	Manganese, Total	0.004	mg/L	0.010	0.004		J
1/22/2025	METALS	2501231419Y	Molybdenum, Total	0.019	mg/L	0.025	0.003		J
1/22/2025	METALS	2501231419Y	Potassium, Total	8.4	mg/L	2.0	0.4		
1/22/2025	METALS	2501231419Y	Sodium, Total	254	mg/L	10	3		
1/22/2025	METALS	2501231419Y	Strontium, Total	2.24	mg/L	0.10	0.002		
1/22/2025	METALS	2501231419Y	Calcium, Total	101	mg/L	1.0	0.3		
1/22/2025	METALS	2501231419Y	Aluminum, Total	0.2	mg/L	0.10	0.03		
1/22/2025	METALS	2501231419Y	Nickel, Total	0.059	mg/L	0.040	0.003		
1/22/2025	METALS	2501231419Y	Vanadium, Total	0.018	mg/L	0.050	0.0007		J RB
1/22/2025	METALS	2501231419Y	Arsenic, Total	0.0029	mg/L	0.0010	0.0004		
1/22/2025	METALS	2501231419Y	Antimony, Total	0.0003	mg/L	0.0010	0.0002		J
1/22/2025	METALS	2501231419Y	Barium, Total	0.023	mg/L	0.020	0.003		RB
1/22/2025	METALS	2501231419Y	Zinc, Total	0.007	mg/L	0.020	0.003		J
1/22/2025	ANIONS	2501270930Y	Alkalinity, Total as CaCO3	78.8	mg/L	2.0	1.8		
1/22/2025	ANIONS	2501270930Y	Sulfate	690	mg/L	20	4		
1/22/2025	ANIONS	2501270930Y	Chloride	128	mg/L	20	5		
1/22/2025	ANIONS	2501270930Y	Fluoride, undistilled	0.37	mg/L	0.10	0.010		
1/22/2025	SM2540C	2501270931Y	Total Dissolved Solids (TDS)	1320	mg/L	13	12		
1/22/2025	6850	2501270932Y	Perchlorate	0.4	ug/L	0.20	0.047		
1/22/2025	353.2	2501270933Y	Nitrate+Nitrite as Nitrogen	1.27	mg/L	0.050	0.002		

Analytical Results for Sampling Events at PL-6-1335

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/27/2025	NDMA_LL	2501280947Y	N-Nitrosodimethylamine	0.55	ng/L	0.49	0.34		K RB TB EB
1/27/2025	METALS	2501281025Y	Magnesium, Total	23.1	mg/L	1.0	0.03		
1/27/2025	METALS	2501281025Y	Thallium, Total	0.0002	mg/L	0.0010	0.00004		J
1/27/2025	METALS	2501281025Y	Zinc, Total	0.016	mg/L	0.020	0.003		J
1/27/2025	METALS	2501281025Y	Strontium, Total	2.42	mg/L	0.10	0.002		
1/27/2025	METALS	2501281025Y	Sodium, Total	333	mg/L	10	3		
1/27/2025	METALS	2501281025Y	Potassium, Total	9.5	mg/L	2.0	0.4		
1/27/2025	METALS	2501281025Y	Antimony, Total	0.0004	mg/L	0.0010	0.0002		J
1/27/2025	METALS	2501281025Y	Nickel, Total	0.061	mg/L	0.040	0.003		
1/27/2025	METALS	2501281025Y	Molybdenum, Total	0.043	mg/L	0.025	0.003		
1/27/2025	METALS	2501281025Y	Manganese, Total	0.178	mg/L	0.010	0.004		
1/27/2025	METALS	2501281025Y	Arsenic, Total	0.0042	mg/L	0.0010	0.0004		
1/27/2025	METALS	2501281025Y	Barium, Total	0.017	mg/L	0.020	0.003		RB J
1/27/2025	METALS	2501281025Y	Calcium, Total	91.3	mg/L	1.0	0.3		
1/27/2025	METALS	2501281025Y	Vanadium, Total	0.018	mg/L	0.050	0.0007		RB J
1/27/2025	METALS	2501281025Y	Boron, Total	0.44	mg/L	0.20	0.02		

Analytical Results for Sampling Events at PL-6-725

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/30/2025	8260_LL	2501311115Y	Unknown	33	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at PL-6-915

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/28/2025	NDMA_LL	2501291345Y	N-Nitrosodimethylamine	0.44	ng/L	0.5	0.35		J K EB
1/28/2025	METALS	2501291346Y	Zinc, Total	0.013	mg/L	0.020	0.003		J EB
1/28/2025	METALS	2501291346Y	Strontium, Total	2.23	mg/L	0.10	0.002		
1/28/2025	METALS	2501291346Y	Vanadium, Total	0.017	mg/L	0.050	0.0007		RB J
1/28/2025	METALS	2501291346Y	Arsenic, Total	0.0025	mg/L	0.0010	0.0004		
1/28/2025	METALS	2501291346Y	Sodium, Total	131	mg/L	1.0	0.3		
1/28/2025	METALS	2501291346Y	Potassium, Total	4.4	mg/L	2.0	0.4		
1/28/2025	METALS	2501291346Y	Nickel, Total	0.056	mg/L	0.040	0.003		
1/28/2025	METALS	2501291346Y	Magnesium, Total	29.8	mg/L	1.0	0.03		
1/28/2025	METALS	2501291346Y	Chromium, Total	0.003	mg/L	0.010	0.002		J
1/28/2025	METALS	2501291346Y	Calcium, Total	39.5	mg/L	1.0	0.3		
1/28/2025	METALS	2501291346Y	Boron, Total	0.19	mg/L	0.20	0.02		J
1/28/2025	METALS	2501291346Y	Barium, Total	0.013	mg/L	0.020	0.003		RB J
1/28/2025	METALS	2501291346Y	Molybdenum, Total	0.017	mg/L	0.025	0.003		J

Analytical Results for Sampling Events at PL-7-560

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/14/2024	NDMA_LL	2411141101Y	N-Nitrosodimethylamine	0.54	ng/L	0.48	0.35		EB

Analytical Results for Sampling Events at PL-8-455

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/6/2024	8260_LL	2412061325Y	Unknown	40	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at PL-8-605

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/6/2024	8260_LL	2412060945Y	Unknown	36	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at ST-1-473

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/14/2024	8260	2411141410C	Trichloroethene (TCE)	160	ug/L	2.0	0.40		D
11/14/2024	8260	2411141410C	Trichlorofluoromethane (CFC 11)	150	ug/L	1.0	0.24		
11/14/2024	8260	2411141410C	1,1,2-Trichloro-1,2,2-Trifluoroethane	190	ug/L	1.0	0.20		
11/14/2024	8260	2411141410C	Dichlorofluoromethane (CFC 21)	0.62	ug/L	1.0	0.20		J
11/14/2024	8260	2411141410C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.1	ug/L	1.0	0.20		
11/14/2024	8260	2411141410C	Tetrachloroethene (PCE)	6.7	ug/L	1.0	0.21		
11/14/2024	607	2411141412C	N-Nitrosodimethylamine	0.23	µg/L	0.0097	0.0049	47	
11/14/2024	607	2411141412C	N-Nitrodimethylamine	0.11	µg/L	0.0097	0.0049	80	
11/14/2024	607	2411141412C	Bromacil	0.006	µg/L	0.0097	0.0049	99	J

Analytical Results for Sampling Events at ST-1-541

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/14/2024	8260	2411140915C	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.6	ug/L	1.0	0.20		
11/14/2024	8260	2411140915C	Trichlorofluoromethane (CFC 11)	140	ug/L	1.0	0.24		
11/14/2024	8260	2411140915C	Trichloroethene (TCE)	130	ug/L	1.0	0.20		
11/14/2024	8260	2411140915C	Tetrachloroethene (PCE)	5.6	ug/L	1.0	0.21		
11/14/2024	8260	2411140915C	Dichlorofluoromethane (CFC 21)	1.2	ug/L	1.0	0.20		
11/14/2024	8260	2411140915C	1,1,2-Trichloro-1,2,2-Trifluoroethane	260	ug/L	5.0	1.0		D
11/14/2024	607	2411140917C	Bromacil	0.19	µg/L	0.0097	0.0049	99	
11/14/2024	607	2411140917C	N-Nitrodimethylamine	1.29	µg/L	0.0097	0.0049	80	
11/14/2024	607	2411140917C	N-Nitrosodimethylamine	1.55	µg/L	0.0097	0.0049	47	
11/14/2024	METALS	2411140918C	Molybdenum, Total	0.007	mg/L	0.025	0.003		J
11/14/2024	METALS	2411140918C	Manganese, Total	0.019	mg/L	0.01	0.004		
11/14/2024	METALS	2411140918C	Magnesium, Total	75.8	mg/L	1	0.03		
11/14/2024	METALS	2411140918C	Iron, Total	0.21	mg/L	0.1	0.07		
11/14/2024	METALS	2411140918C	Chromium, Total	0.007	mg/L	0.01	0.002		J
11/14/2024	METALS	2411140918C	Calcium, Total	121	mg/L	1	0.3		
11/14/2024	METALS	2411140918C	Boron, Total	0.06	mg/L	0.2	0.02		J
11/14/2024	METALS	2411140918C	Arsenic, Total	0.0007	mg/L	0.001	0.0004		J
11/14/2024	METALS	2411140918C	Sodium, Total	41.6	mg/L	1	0.3		
11/14/2024	METALS	2411140918C	Barium, Total	0.028	mg/L	0.02	0.003		
11/14/2024	METALS	2411140918C	Nickel, Total	0.063	mg/L	0.04	0.003		
11/14/2024	METALS	2411140918C	Strontium, Total	2.74	mg/L	0.1	0.002		
11/14/2024	METALS	2411140918C	Vanadium, Total	0.002	mg/L	0.05	0.0007		J
11/14/2024	METALS	2411140918C	Potassium, Total	3.8	mg/L	2	0.4		
11/14/2024	ANIONS	2411140919C	Alkalinity, Total as CaCO3	227	mg/L	2	1.8		
11/14/2024	ANIONS	2411140919C	Chloride	64.7	mg/L	2	0.5		
11/14/2024	ANIONS	2411140919C	Fluoride, undistilled	0.71	mg/L	0.1	0.01		
11/14/2024	ANIONS	2411140919C	Sulfate	346	mg/L	20	4		
11/14/2024	SM2540C	2411140920C	Total Dissolved Solids (TDS)	894	mg/L	10	9		
11/14/2024	6850	2411140921C	Perchlorate	0.51	ug/L	0.20	0.047		
11/14/2024	353.2	2411140922C	Nitrate+Nitrite as Nitrogen	2.97	mg/L	0.25	0.008		

Analytical Results for Sampling Events at ST-1-630

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	8260	2411181015A	2,2-Dichloro-1,1,1-trifluoroethane (CFC 123)	0.33	ug/L	1.0	0.20		J
11/18/2024	8260	2411181015A	Dichlorofluoromethane (CFC 21)	0.77	ug/L	1.0	0.20		J
11/18/2024	8260	2411181015A	Tetrachloroethene (PCE)	10	ug/L	1.0	0.21		
11/18/2024	8260	2411181015A	Trichloroethene (TCE)	270	ug/L	5.0	1.0		D
11/18/2024	8260	2411181015A	Trichlorofluoromethane (CFC 11)	240	ug/L	5.0	1.2		D
11/18/2024	8260	2411181015A	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.4	ug/L	1.0	0.20		
11/18/2024	8260	2411181015A	1,1,2-Trichloro-1,2,2-Trifluoroethane	290	ug/L	5.0	1.0		D
11/18/2024	607	2411181017A	N-Nitrosodimethylamine	0.24	µg/L	0.0095	0.0048	52	
11/18/2024	607	2411181017A	N-Nitrodimethylamine	0.18	µg/L	0.0095	0.0048	86	
11/18/2024	607	2411181017A	Bromacil	0.01	µg/L	0.0095	0.0048	104	

Analytical Results for Sampling Events at ST-3-486

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/6/2024	8260	2412060926C	Tetrachloroethene (PCE)	0.25	ug/L	1.0	0.21		J
12/6/2024	8260	2412060926C	1,1,2-Trichloro-1,2,2-Trifluoroethane	6	ug/L	1.0	0.20		
12/6/2024	8260	2412060926C	Trichloroethene (TCE)	8.2	ug/L	1.0	0.20		
12/6/2024	8260	2412060926C	Unknown	36	ug/L	NA	NA		J TIC
12/6/2024	8260	2412060926C	Trichlorofluoromethane (CFC 11)	4.5	ug/L	1.0	0.24		
12/6/2024	607	2412060928C	N-Nitrodimethylamine	0.02	µg/L	0.0095	0.0048	95	
12/6/2024	607	2412060928C	N-Nitrosodimethylamine	0.02	µg/L	0.0095	0.0048	58	

Analytical Results for Sampling Events at ST-3-586

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/5/2024	8260	2412050940C	Unknown	36	ug/L	NA	NA		J TIC
12/5/2024	8260	2412050940C	Trichlorofluoromethane (CFC 11)	0.39	ug/L	1.0	0.24		J
12/5/2024	8260	2412050940C	Trichloroethene (TCE)	0.6	ug/L	1.0	0.20		J
12/5/2024	8260	2412050940C	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	ug/L	1.0	0.20		
12/5/2024	8260	2412050941C	Unknown	36	ug/L	NA	NA		J TIC
12/5/2024	8260	2412050941C	Trichlorofluoromethane (CFC 11)	0.42	ug/L	1.0	0.24		J
12/5/2024	8260	2412050941C	Trichloroethene (TCE)	0.61	ug/L	1.0	0.20		J
12/5/2024	8260	2412050941C	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.1	ug/L	1.0	0.20		

Analytical Results for Sampling Events at ST-3-666

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/6/2024	8260	2412061223C	Trichlorofluoromethane (CFC 11)	2.1	ug/L	1.0	0.24		
12/6/2024	8260	2412061223C	Trichloroethene (TCE)	4.5	ug/L	1.0	0.20		
12/6/2024	8260	2412061223C	1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	1.0	0.20		
12/6/2024	8260	2412061223C	Unknown	37	ug/L	NA	NA		J TIC
12/6/2024	8260	2412061223C	Tetrachloroethene (PCE)	0.23	ug/L	1.0	0.21		J
12/6/2024	607	2412061225C	N-Nitrodimethylamine	0.02	µg/L	0.0095	0.0048	95	

Analytical Results for Sampling Events at ST-3-735

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/5/2024	8260	2412051430C	Unknown	36	ug/L	NA	NA		J TIC
12/5/2024	8260	2412051430C	Trichlorofluoromethane (CFC 11)	8.6	ug/L	1.0	0.24		
12/5/2024	8260	2412051430C	Trichloroethene (TCE)	15	ug/L	1.0	0.20		
12/5/2024	8260	2412051430C	Tetrachloroethene (PCE)	0.32	ug/L	1.0	0.21		J
12/5/2024	8260	2412051430C	1,1,2-Trichloro-1,2,2-Trifluoroethane	4.8	ug/L	1.0	0.20		
12/5/2024	607	2412051432C	N-Nitrodimethylamine	0.17	µg/L	0.0094	0.0047	95	
12/5/2024	607	2412051432C	N-Nitrosodimethylamine	0.23	µg/L	0.0094	0.0047	58	

Analytical Results for Sampling Events at ST-4-481

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/9/2024	8260_LL	2412091418C	Unknown	35	ug/L	NA	NA		J TIC
12/9/2024	NDMA_LL	2412091420C	N-Nitrosodimethylamine	0.88	ng/L	0.49	0.35		A K RB FB

Analytical Results for Sampling Events at ST-4-589

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/5/2024	8260_LL	2411051405C	Unknown	27	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at ST-4-690

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/5/2024	8260_LL	2411051000C	Unknown	27	ug/L	NA	NA		J TIC
11/5/2024	NDMA_LL	2411051002C	N-Nitrosodimethylamine	0.87	ng/L	0.47	0.34		

Analytical Results for Sampling Events at ST-5-485

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/12/2024	NDMA_LL	2411121411Y	N-Nitrosodimethylamine	0.48	ng/L	0.48	0.35		

Analytical Results for Sampling Events at ST-5-655

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/12/2024	NDMA_LL	2411121031Y	N-Nitrosodimethylamine	0.49	ng/L	0.5	0.37		J EB

Analytical Results for Sampling Events at ST-6-528

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/4/2024	8260_LL	2412041238B	Unknown	36	ug/L	NA	NA		J TIC
12/4/2024	NDMA_LL	2412041244B	N-Nitrosodimethylamine	0.64	ng/L	0.48	0.35		K
12/4/2024	8270	2412041250B	1,4-Dioxane	0.83	ug/L	0.040	0.035		

Analytical Results for Sampling Events at ST-6-568

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/4/2024	8260_LL	2412041310B	Trichloroethene (TCE)	0.27	ug/L	0.50	0.20		J
12/4/2024	8260_LL	2412041310B	Unknown	35	ug/L	NA	NA		J TIC
12/4/2024	NDMA_LL	2412041314B	N-Nitrosodimethylamine	0.67	ng/L	0.49	0.35		K
12/4/2024	NDMA_LL	2412041316B	N-Nitrosodimethylamine	0.46	ng/L	0.47	0.34		J K
12/4/2024	8270	2412041325B	1,4-Dioxane	2.2	ug/L	0.040	0.035		

Analytical Results for Sampling Events at ST-6-678

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/5/2024	8260_LL	2412051200B	Unknown	30	ug/L	NA	NA		J TIC
12/5/2024	8270	2412051210B	1,4-Dioxane	0.1	ug/L	0.040	0.035		

Analytical Results for Sampling Events at ST-6-824

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/5/2024	8260_LL	2412051222B	Unknown	31	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at ST-6-970

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/5/2024	8260_LL	2412051250B	Unknown	29	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at ST-7-544

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/6/2025	8260_LL	2501061245B	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.3	ug/L	0.50	0.20		
1/6/2025	8260_LL	2501061245B	Trichloroethene (TCE)	5.8	ug/L	0.50	0.20		
1/6/2025	8260_LL	2501061245B	Trichlorofluoromethane (CFC 11)	4.2	ug/L	0.50	0.24		
1/6/2025	NDMA_LL	2501061247B	N-Nitrosodimethylamine	0.64	ng/L	0.48	0.35		K
1/6/2025	NDMA_LL	2501061248B	N-Nitrosodimethylamine	0.56	ng/L	0.48	0.35		K

Analytical Results for Sampling Events at ST-7-779

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/6/2025	NDMA_LL	2501061312B	N-Nitrosodimethylamine	0.65	ng/L	0.48	0.35		K

Analytical Results for Sampling Events at ST-7-970

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/6/2025	NDMA_LL	2501061347B	N-Nitrosodimethylamine	0.81	ng/L	0.49	0.35		K

Analytical Results for Sampling Events at WB-1-200

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/20/2024	SM2540C	2411201350Y	Total Dissolved Solids (TDS)	928	mg/L	10	9		
11/20/2024	351.2	2411201351Y	Nitrogen, Total Kjeldahl (TKN)	0.3	mg/L	0.20	0.15		
11/20/2024	300.0	2411201352Y	Chloride	41.6	mg/L	2.0	0.5		
11/20/2024	353.2	2411201405Y	Nitrate+Nitrite as Nitrogen	0.002	mg/L	0.050	0.002		J

Analytical Results for Sampling Events at WW-1-452

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/4/2024	8260_LL	2412041425C	Unknown	35	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at WW-2-489

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/6/2024	8260_LL	2412061014A	Unknown	34	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at WW-2-664

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/6/2024	8260_LL	2412061139A	Unknown	29	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at WW-3-469

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/5/2024	8260_LL	2412051340Y	Unknown	39	ug/L	NA	NA		J TIC
12/5/2024	NDMA_LL	2412051341Y	N-Nitrosodimethylamine	0.74	ng/L	0.47	0.34		EB

Analytical Results for Sampling Events at WW-3-569

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
12/4/2024	8260_LL	2412050920Y	Unknown	35	ug/L	NA	NA		J TIC
12/4/2024	NDMA_LL	2412050922Y	N-Nitrosodimethylamine	0.95	ng/L	0.48	0.35		
12/4/2024	NDMA_LL	2412050923Y	N-Nitrosodimethylamine	0.82	ng/L	0.47	0.34		

Analytical Results for Sampling Events at WW-4-419

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/12/2024	8260_LL	2411121205B	Toluene	0.62	ug/L	0.50	0.20		
11/12/2024	NDMA_LL	2411121207B	N-Nitrosodimethylamine	3.4	ng/L	0.49	0.36		
11/12/2024	NDMA_LL	2411121207B	N-Nitrodimethylamine	0.57	ng/L	0.49	0.34		
11/12/2024	8270	2411121248B	Butane, 2-methoxy-2-methyl-	760	ug/L	NA	NA		J TIC RB
11/12/2024	8270	2411121248B	Benzenesulfonamide, N-butyl-	630	ug/L	NA	NA		J TIC
11/12/2024	8270	2411121248B	2,2,6,6-Tetramethyl-4-piperidone	5.6	ug/L	NA	NA		J TIC
11/12/2024	8270	2411121248B	Unknown	8.4	ug/L	NA	NA		J
11/12/2024	8270	2411121248B	Unknown	14	ug/L	NA	NA		J
11/12/2024	8270	2411121248B	Unknown	14	ug/L	NA	NA		J

Analytical Results for Sampling Events at WW-4-589

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/12/2024	8260_LL	2411121223B	Toluene	0.82	ug/L	0.50	0.20		
11/12/2024	NDMA_LL	2411121225B	N-Nitrosodimethylamine	2.25	ng/L	0.5	0.36		
11/12/2024	NDMA_LL	2411121300B	N-Nitrosodimethylamine	1.71	ng/L	0.49	0.36		
11/12/2024	8270	2411121335B	Butane, 2-methoxy-2-methyl-	750	ug/L	NA	NA		J TIC RB
11/12/2024	8270	2411121335B	Unknown	6.1	ug/L	NA	NA		J
11/12/2024	8270	2411121335B	Unknown	4.6	ug/L	NA	NA		J
11/12/2024	8270	2411121335B	Benzenesulfonamide, N-butyl-	190	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at WW-4-848

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/13/2024	8260_LL	2411131158B	Toluene	0.66	ug/L	0.50	0.20		
11/13/2024	NDMA_LL	2411131200B	N-Nitrosodimethylamine	2.27	ng/L	0.48	0.35		
11/13/2024	8270	2411131320B	Butane, 2-methoxy-2-methyl-	660	ug/L	NA	NA		J TIC RB
11/13/2024	8270	2411131320B	Benzenesulfonamide, N-butyl-	89	ug/L	NA	NA		J TIC

Analytical Results for Sampling Events at WW-4-948

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/13/2024	8260_LL	2411131230B	Toluene	0.7	ug/L	0.50	0.20		
11/13/2024	NDMA_LL	2411131232B	N-Nitrosodimethylamine	1.63	ng/L	0.49	0.35		
11/13/2024	8270	2411131300B	Unknown	67	ug/L	NA	NA		J
11/13/2024	8270	2411131300B	Unknown	5.4	ug/L	NA	NA		J
11/13/2024	8270	2411131300B	Butane, 2-methoxy-2-methyl-	790	ug/L	NA	NA		J TIC RB

Analytical Results for Sampling Events at WW-5-459

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/7/2025	8260_LL	2501071220B	Toluene	0.64	ug/L	0.50	0.20		
1/7/2025	NDMA_LL	2501071225B	N-Nitrosodimethylamine	0.85	ng/L	0.47	0.34		RB

Analytical Results for Sampling Events at WW-5-579

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/7/2025	8260_LL	2501071245B	Toluene	0.68	ug/L	0.50	0.20		
1/7/2025	NDMA_LL	2501071250B	N-Nitrosodimethylamine	0.83	ng/L	0.48	0.35		RB

Analytical Results for Sampling Events at WW-5-809

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/13/2025	8260_LL	2501131150B	Toluene	0.58	ug/L	0.50	0.20		
1/13/2025	8260_LL	2501131150B	Unknown	32	ug/L	NA	NA		J TIC
1/13/2025	NDMA_LL	2501131152B	N-Nitrosodimethylamine	1.27	ng/L	0.47	0.34		A
1/13/2025	NDMA_LL	2501131153B	N-Nitrosodimethylamine	1.01	ng/L	0.48	0.35		A

Analytical Results for Sampling Events at WW-5-909

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/13/2025	8260_LL	2501131215B	Toluene	0.32	ug/L	0.50	0.20		J
1/13/2025	8260_LL	2501131215B	Unknown	30	ug/L	NA	NA		J TIC
1/13/2025	NDMA_LL	2501131217B	N-Nitrosodimethylamine	3.23	ng/L	0.48	0.35		A

Appendix A.3
PFTS Indicator Parameters

Summary of Water Quality Parameters
for the Plume Front Sampling Events in this Reporting Period

Well ID **B650-EFF-1** **Event Date** **11/18/2024**

Sample	Parameter	Result	Units
2411180945	Atmospheric Pressure		psia
2411180945	Conductivity	1075	µS/cm
2411180945	DTW		ft
2411180945	Formation Pressure		psia
2411180945	pH	7.52	NA
2411180945	Temperature	24.3	ºC
2411180945	Turbidity	0.61	NTU

Well ID **B650-EFF-1** **Event Date** **12/5/2024**

Sample	Parameter	Result	Units
2412050857	Atmospheric Pressure		psia
2412050857	Conductivity	1050	µS/cm
2412050857	DTW		ft
2412050857	Formation Pressure		psia
2412050857	pH	7.77	NA
2412050857	Temperature	23.6	ºC
2412050857	Turbidity	0.22	NTU

Well ID **B650-EFF-1** **Event Date** **1/7/2025**

Sample	Parameter	Result	Units
2501071235	Atmospheric Pressure		psia
2501071235	Conductivity	1040	µS/cm
2501071235	DTW		ft
2501071235	Formation Pressure		psia
2501071235	pH	7.73	NA
2501071235	Temperature	22.9	ºC
2501071235	Turbidity	0.11	NTU

Well ID	B650-INF-1	Event Date	11/18/2024	
Sample	**Parameter**		**Result**	**Units**
2411181000	Atmospheric Pressure			psia
2411181000	Conductivity		1057	µS/cm
2411181000	DTW			ft
2411181000	Formation Pressure			psia
2411181000	pH		7.03	NA
2411181000	Temperature		24.4	ºC
2411181000	Turbidity		1.24	NTU

Well ID	B650-INF-1	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412050915	Atmospheric Pressure			psia
2412050915	Conductivity		1035	µS/cm
2412050915	DTW			ft
2412050915	Formation Pressure			psia
2412050915	pH		7.17	NA
2412050915	Temperature		23.4	ºC
2412050915	Turbidity		0.26	NTU

Well ID	B650-INF-1	Event Date	1/7/2025	
Sample	**Parameter**		**Result**	**Units**
2501071245	Atmospheric Pressure			psia
2501071245	Conductivity		1017	µS/cm
2501071245	DTW			ft
2501071245	Formation Pressure			psia
2501071245	pH		7.14	NA
2501071245	Temperature		23.3	ºC
2501071245	Turbidity		0.15	NTU

Well ID	PFE-1	Event Date	1/15/2025	
Sample	**Parameter**		**Result**	**Units**
2501151233	Atmospheric Pressure			psia
2501151233	Conductivity		1024	µS/cm
2501151233	DTW			ft
2501151233	Formation Pressure			psia
2501151233	pH		6.82	NA
2501151233	Temperature		24.1	ºC
2501151233	Turbidity		1.33	NTU

Well ID	PFE-2	Event Date	1/15/2025	
Sample	**Parameter**		**Result**	**Units**
2501151256	Atmospheric Pressure			psia
2501151256	Conductivity		1073	µS/cm
2501151256	DTW			ft
2501151256	Formation Pressure			psia
2501151256	pH		7.07	NA
2501151256	Temperature		24.1	ºC
2501151256	Turbidity		1.65	NTU

Well ID	PFE-3	Event Date	1/16/2025	
Sample	**Parameter**		**Result**	**Units**
2501161314	Atmospheric Pressure			psia
2501161314	Conductivity		1095	µS/cm
2501161314	DTW			ft
2501161314	Formation Pressure			psia
2501161314	pH		6.96	NA
2501161314	Temperature		23	ºC
2501161314	Turbidity		1.84	NTU

Well ID	PFE-4A	Event Date	1/17/2025	
Sample	**Parameter**		**Result**	**Units**
2501170746	Atmospheric Pressure			psia
2501170746	Conductivity		1016	µS/cm
2501170746	DTW			ft
2501170746	Formation Pressure			psia
2501170746	pH		7.03	NA
2501170746	Temperature		21.5	ºC
2501170746	Turbidity		1.2	NTU

Well ID	PFE-5	Event Date	1/16/2025	
Sample	**Parameter**		**Result**	**Units**
2501161222	Atmospheric Pressure			psia
2501161222	Conductivity		920	µS/cm
2501161222	DTW			ft
2501161222	Formation Pressure			psia
2501161222	pH		7.21	NA
2501161222	Temperature		27.1	ºC
2501161222	Turbidity		1.46	NTU

Well ID	PFE-7	Event Date	1/16/2025	
Sample	**Parameter**		**Result**	**Units**
2501161245	Atmospheric Pressure			psia
2501161245	Conductivity		1029	µS/cm
2501161245	DTW			ft
2501161245	Formation Pressure			psia
2501161245	pH		7.09	NA
2501161245	Temperature		23.1	ºC
2501161245	Turbidity		0.21	NTU

Appendix A.4
PFTS Analytical Data

Detections for Plume Front Treatment System Sampling Events in this Reporting Period

Analytical Results for Sampling Events at B650-EFF-1

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	8260_LL	2411180950	Unknown	5.7	ug/L	NA	NA		J TIC
11/18/2024	NDMA_LL	2411180953	N-Nitrosodimethylamine	0.82	ng/L	0.48	0.35		A K RB FB
11/18/2024	8270	2411180955	1,4-Dioxane	0.053	ug/L	0.040	0.035		
12/5/2024	8260_LL	2412050905	Unknown	33	ug/L	NA	NA		J TIC
12/5/2024	NDMA_LL	2412050908	N-Nitrosodimethylamine	0.44	ng/L	0.48	0.35		J K
1/7/2025	NDMA_LL	2501071242	N-Nitrosodimethylamine	0.43	ng/L	0.48	0.35		J K RB FB

Analytical Results for Sampling Events at B650-INF-1

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	8260	2411181005	Trichlorofluoromethane (CFC 11)	20	ug/L	1.0	0.24		
11/18/2024	8260	2411181005	1,1,2-Trichloro-1,2,2-Trifluoroethane	39	ug/L	1.0	0.20		
11/18/2024	8260	2411181005	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.22	ug/L	1.0	0.20		J
11/18/2024	8260	2411181005	Tetrachloroethene (PCE)	1	ug/L	1.0	0.21		J
11/18/2024	8260	2411181005	Trichloroethene (TCE)	20	ug/L	1.0	0.20		
11/18/2024	8260	2411181006	1,1,2-Trichloro-1,2,2-Trifluoroethane	41	ug/L	1.0	0.20		
11/18/2024	8260	2411181006	Tetrachloroethene (PCE)	0.94	ug/L	1.0	0.21		J
11/18/2024	8260	2411181006	Trichlorofluoromethane (CFC 11)	20	ug/L	1.0	0.24		
11/18/2024	8260	2411181006	Trichloroethene (TCE)	21	ug/L	1.0	0.20		
11/18/2024	607	2411181008	N-Nitrosodimethylamine	0.07	µg/L	0.0097	0.0049	52	
11/18/2024	607	2411181008	Bromacil	0.02	µg/L	0.0097	0.0049	104	
11/18/2024	607	2411181008	N-Nitrodimethylamine	0.05	µg/L	0.0097	0.0049	86	
12/5/2024	8260	2412050920	1,1,2-Trichloro-1,2,2-Trifluoroethane	22	ug/L	1.0	0.20		
12/5/2024	8260	2412050920	Tetrachloroethene (PCE)	0.65	ug/L	1.0	0.21		J
12/5/2024	8260	2412050920	Trichloroethene (TCE)	16	ug/L	1.0	0.20		
12/5/2024	8260	2412050920	Trichlorofluoromethane (CFC 11)	12	ug/L	1.0	0.24		
12/5/2024	8260	2412050920	Unknown	37	ug/L	NA	NA		J TIC
12/5/2024	607	2412050922	N-Nitrosodimethylamine	0.05	µg/L	0.0095	0.0048	58	
12/5/2024	607	2412050922	Bromacil	0.007	µg/L	0.0095	0.0048	92	J
12/5/2024	607	2412050922	N-Nitrodimethylamine	0.04	µg/L	0.0095	0.0048	95	
1/7/2025	8260	2501071250	1,1,2-Trichloro-1,2,2-Trifluoroethane	26	ug/L	1.0	0.20		FB
1/7/2025	8260	2501071250	Tetrachloroethene (PCE)	0.94	ug/L	1.0	0.21		J
1/7/2025	8260	2501071250	Trichlorofluoromethane (CFC 11)	13	ug/L	1.0	0.24		
1/7/2025	8260	2501071250	Trichloroethene (TCE)	17	ug/L	1.0	0.20		FB
1/7/2025	607	2501071252	N-Nitrodimethylamine	0.05	µg/L	0.0097	0.0049	70	
1/7/2025	607	2501071252	N-Nitrosodimethylamine	0.06	µg/L	0.0097	0.0049	40	
1/7/2025	607	2501071252	Bromacil	0.006	µg/L	0.0097	0.0049	110	J

Analytical Results for Sampling Events at PFE-1

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	8260	2501151240	Trichloroethene (TCE)	7.3	ug/L	1.0	0.20		
1/15/2025	8260	2501151240	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.2	ug/L	1.0	0.20		
1/15/2025	8260	2501151240	Trichlorofluoromethane (CFC 11)	4.1	ug/L	1.0	0.24		
1/15/2025	607	2501151242	N-Nitrosodimethylamine	0.05	µg/L	0.0095	0.0048	35	
1/15/2025	607	2501151242	N-Nitrodimethylamine	0.04	µg/L	0.0095	0.0048	64	

Analytical Results for Sampling Events at PFE-2

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/15/2025	8260	2501151300	Trichloroethene (TCE)	71	ug/L	1.0	0.20		
1/15/2025	8260	2501151300	Trichlorofluoromethane (CFC 11)	59	ug/L	1.0	0.24		
1/15/2025	8260	2501151300	Tetrachloroethene (PCE)	2.8	ug/L	1.0	0.21		
1/15/2025	8260	2501151300	Dichlorofluoromethane (CFC 21)	0.21	ug/L	1.0	0.20		J
1/15/2025	8260	2501151300	1,1,2-Trichloro-1,2,2-Trifluoroethane	120	ug/L	1.0	0.20		
1/15/2025	8260	2501151300	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.31	ug/L	1.0	0.20		J
1/15/2025	607	2501151302	N-Nitrosodimethylamine	0.12	µg/L	0.0095	0.0048	35	
1/15/2025	607	2501151302	N-Nitrodimethylamine	0.11	µg/L	0.0095	0.0048	64	
1/15/2025	607	2501151302	Bromacil	0.007	µg/L	0.0095	0.0048	94	J
1/15/2025	607	2501151303	N-Nitrosodimethylamine	0.12	µg/L	0.0095	0.0048	35	
1/15/2025	607	2501151303	N-Nitrodimethylamine	0.11	µg/L	0.0095	0.0048	64	
1/15/2025	607	2501151303	Bromacil	0.007	µg/L	0.0095	0.0048	94	J

Analytical Results for Sampling Events at PFE-3

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/16/2025	8260	2501161320	Trichloroethene (TCE)	34	ug/L	1.0	0.20		
1/16/2025	8260	2501161320	1,1,2-Trichloro-1,2,2-Trifluoroethane	64	ug/L	1.0	0.20		
1/16/2025	8260	2501161320	Tetrachloroethene (PCE)	1.5	ug/L	1.0	0.21		
1/16/2025	8260	2501161320	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.22	ug/L	1.0	0.20		J
1/16/2025	8260	2501161320	Trichlorofluoromethane (CFC 11)	27	ug/L	1.0	0.24		
1/16/2025	607	2501161322	Bromacil	0.02	µg/L	0.0094	0.0047	89	
1/16/2025	607	2501161322	N-Nitrodimethylamine	0.09	µg/L	0.0094	0.0047	71	
1/16/2025	607	2501161322	N-Nitrosodimethylamine	0.08	µg/L	0.0094	0.0047	40	

Analytical Results for Sampling Events at PFE-4A

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/17/2025	8260	2501170750	1,1,2-Trichloro-1,2,2-Trifluoroethane	4.2	ug/L	1.0	0.20		
1/17/2025	8260	2501170750	Trichloroethene (TCE)	2	ug/L	1.0	0.20		
1/17/2025	8260	2501170750	Trichlorofluoromethane (CFC 11)	1.4	ug/L	1.0	0.24		
1/17/2025	607	2501170752	Bromacil	0.009	µg/L	0.0097	0.0049	89	J
1/17/2025	NDMA_LL	2501170753	N-Nitrodimethylamine	12.3	ng/L	0.48	0.34		
1/17/2025	NDMA_LL	2501170753	N-Nitrosodimethylamine	20.44	ng/L	0.48	0.35		

Analytical Results for Sampling Events at PFE-5

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/16/2025	8260	2501161227	Trichlorofluoromethane (CFC 11)	9.8	ug/L	1.0	0.24		
1/16/2025	8260	2501161227	Trichloroethene (TCE)	36	ug/L	1.0	0.20		
1/16/2025	8260	2501161227	1,1,2-Trichloro-1,2,2-Trifluoroethane	6	ug/L	1.0	0.20		
1/16/2025	8260	2501161227	Tetrachloroethene (PCE)	1.5	ug/L	1.0	0.21		
1/16/2025	607	2501161229	N-Nitrosodimethylamine	0.18	µg/L	0.0099	0.005	40	
1/16/2025	607	2501161229	N-Nitrodimethylamine	0.12	µg/L	0.0099	0.005	71	
1/16/2025	607	2501161229	Bromacil	0.01	µg/L	0.0099	0.005	89	

Analytical Results for Sampling Events at PFE-7

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/16/2025	8260	2501161250	Trichlorofluoromethane (CFC 11)	2.5	ug/L	1.0	0.24		
1/16/2025	8260	2501161250	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.7	ug/L	1.0	0.20		
1/16/2025	8260	2501161250	Trichloroethene (TCE)	4.4	ug/L	1.0	0.20		
1/16/2025	8260	2501161251	Toluene	0.2	ug/L	1.0	0.20		J
1/16/2025	8260	2501161251	Trichloroethene (TCE)	4.3	ug/L	1.0	0.20		
1/16/2025	8260	2501161251	1,1,2-Trichloro-1,2,2-Trifluoroethane	3.6	ug/L	1.0	0.20		
1/16/2025	8260	2501161251	Trichlorofluoromethane (CFC 11)	2.4	ug/L	1.0	0.24		
1/16/2025	NDMA_LL	2501161254	N-Nitrosodimethylamine	1.99	ng/L	0.48	0.35		
1/16/2025	NDMA_LL	2501161254	N-Nitrodimethylamine	0.68	ng/L	0.48	0.34		

Appendix A.5
MPITS Indicator Parameters

Summary of Water Quality Parameters
for the Mid-plume Sampling Events in this Reporting Period

Well ID **B655-EFF-2** **Event Date** **11/18/2024**

Sample	Parameter	Result	Units
2411181237	Atmospheric Pressure		psia
2411181237	Conductivity	1143	µS/cm
2411181237	DTW		ft
2411181237	Formation Pressure		psia
2411181237	pH	7.81	NA
2411181237	Temperature	22.8	ºC
2411181237	Turbidity	0.34	NTU

Well ID **B655-EFF-2** **Event Date** **12/5/2024**

Sample	Parameter	Result	Units
2412050948	Atmospheric Pressure		psia
2412050948	Conductivity	1097	µS/cm
2412050948	DTW		ft
2412050948	Formation Pressure		psia
2412050948	pH	7.87	NA
2412050948	Temperature	22.9	ºC
2412050948	Turbidity	0.2	NTU

Well ID **B655-EFF-2** **Event Date** **1/7/2025**

Sample	Parameter	Result	Units
2501071306	Atmospheric Pressure		psia
2501071306	Conductivity	1035	µS/cm
2501071306	DTW		ft
2501071306	Formation Pressure		psia
2501071306	pH	7.7	NA
2501071306	Temperature	20.5	ºC
2501071306	Turbidity	0.14	NTU

Well ID	B655-INF-2	Event Date	11/18/2024	
Sample	**Parameter**		**Result**	**Units**
2411181252	Atmospheric Pressure			psia
2411181252	Conductivity		1121	µS/cm
2411181252	DTW			ft
2411181252	Formation Pressure			psia
2411181252	pH		6.96	NA
2411181252	Temperature		23.2	ºC
2411181252	Turbidity		0.49	NTU

Well ID	B655-INF-2	Event Date	12/5/2024	
Sample	**Parameter**		**Result**	**Units**
2412051004	Atmospheric Pressure			psia
2412051004	Conductivity		1099	µS/cm
2412051004	DTW			ft
2412051004	Formation Pressure			psia
2412051004	pH		6.89	NA
2412051004	Temperature		22.7	ºC
2412051004	Turbidity		0.31	NTU

Well ID	B655-INF-2	Event Date	1/7/2025	
Sample	**Parameter**		**Result**	**Units**
2501071332	Atmospheric Pressure			psia
2501071332	Conductivity		1088	µS/cm
2501071332	DTW			ft
2501071332	Formation Pressure			psia
2501071332	pH		6.93	NA
2501071332	Temperature		21.7	ºC
2501071332	Turbidity		0.41	NTU

Well ID	MPE-1	Event Date	11/19/2024	
Sample	**Parameter**		**Result**	**Units**
2411191251	Atmospheric Pressure			psia
2411191251	Conductivity		1214	µS/cm
2411191251	DTW			ft
2411191251	Formation Pressure			psia
2411191251	pH		7.01	NA
2411191251	Temperature		24.5	ºC
2411191251	Turbidity		0.12	NTU

Well ID	MPE-10	Event Date	11/19/2024	
Sample	**Parameter**		**Result**	**Units**
2411190955	Atmospheric Pressure			psia
2411190955	Conductivity		1066	µS/cm
2411190955	DTW			ft
2411190955	Formation Pressure			psia
2411190955	pH		7.05	NA
2411190955	Temperature		19.4	ºC
2411190955	Turbidity		0.81	NTU

Well ID	MPE-11	Event Date	11/19/2024	
Sample	**Parameter**		**Result**	**Units**
2411191307	Atmospheric Pressure			psia
2411191307	Conductivity		981	µS/cm
2411191307	DTW			ft
2411191307	Formation Pressure			psia
2411191307	pH		7.1	NA
2411191307	Temperature		26.7	ºC
2411191307	Turbidity		0.64	NTU

Well ID	MPE-9	Event Date	11/19/2024	
Sample	**Parameter**		**Result**	**Units**
2411190935	Atmospheric Pressure			psia
2411190935	Conductivity		1031	µS/cm
2411190935	DTW			ft
2411190935	Formation Pressure			psia
2411190935	pH		6.78	NA
2411190935	Temperature		18.6	ºC
2411190935	Turbidity		1.44	NTU

Appendix A.6
MPITS Analytical Data

Detections for MPITS Sampling Events in this Reporting Period

Analytical Results for Sampling Events at B655-EFF-2

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	8260_LL	2411181242	Unknown	5.8	ug/L	NA	NA		J TIC
11/18/2024	NDMA_LL	2411181245	N-Nitrosodimethylamine	0.91	ng/L	0.48	0.35		A K RB TB FB
11/18/2024	8270	2411181247	1,4-Dioxane	0.06	ug/L	0.040	0.035		
12/5/2024	8260_LL	2412050953	Unknown	33	ug/L	NA	NA		J TIC
12/5/2024	NDMA_LL	2412050956	N-Nitrosodimethylamine	0.37	ng/L	0.48	0.35		J K FB
12/5/2024	8270	2412050958	1,4-Dioxane	0.041	ug/L	0.040	0.035		
1/7/2025	NDMA_LL	2501071315	N-Nitrosodimethylamine	0.36	ng/L	0.48	0.35		J K RB FB
1/7/2025	METALS	2501071318	Sodium, Total	53.1	mg/L	1.0	0.3		
1/7/2025	METALS	2501071318	Zinc, Total	0.08	mg/L	0.020	0.003		QD
1/7/2025	METALS	2501071318	Vanadium, Total	0.002	mg/L	0.050	0.0007		J RB
1/7/2025	METALS	2501071318	Strontium, Total	2.68	mg/L	0.10	0.002		
1/7/2025	METALS	2501071318	Selenium, Total	0.007	mg/L	0.010	0.007		J
1/7/2025	METALS	2501071318	Potassium, Total	5.4	mg/L	2.0	0.4		
1/7/2025	METALS	2501071318	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
1/7/2025	METALS	2501071318	Magnesium, Total	62.3	mg/L	1.0	0.03		
1/7/2025	METALS	2501071318	Arsenic, Total	0.0007	mg/L	0.0010	0.0004		J
1/7/2025	METALS	2501071318	Calcium, Total	116	mg/L	1.0	0.3		
1/7/2025	METALS	2501071318	Boron, Total	0.11	mg/L	0.20	0.02		J
1/7/2025	METALS	2501071318	Barium, Total	0.034	mg/L	0.020	0.003		RB
1/7/2025	METALS	2501071318	Nickel, Total	0.043	mg/L	0.040	0.003		
1/7/2025	METALS	2501071318	Thallium, Total	0.00004	mg/L	0.0010	0.00004		J
1/7/2025	METALS	2501071319	Boron, Total	0.11	mg/L	0.20	0.02		J
1/7/2025	METALS	2501071319	Zinc, Total	0.003	mg/L	0.020	0.003		J QD
1/7/2025	METALS	2501071319	Vanadium, Total	0.003	mg/L	0.050	0.0007		J RB
1/7/2025	METALS	2501071319	Strontium, Total	2.72	mg/L	0.10	0.002		
1/7/2025	METALS	2501071319	Sodium, Total	53.9	mg/L	1.0	0.3		
1/7/2025	METALS	2501071319	Potassium, Total	5.4	mg/L	2.0	0.4		
1/7/2025	METALS	2501071319	Nickel, Total	0.047	mg/L	0.040	0.003		
1/7/2025	METALS	2501071319	Molybdenum, Total	0.009	mg/L	0.025	0.003		J
1/7/2025	METALS	2501071319	Calcium, Total	118	mg/L	1.0	0.3		
1/7/2025	METALS	2501071319	Barium, Total	0.034	mg/L	0.020	0.003		RB

Analytical Results for Sampling Events at B655-EFF-2

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/7/2025	METALS	2501071319	Arsenic, Total	0.0007	mg/L	0.0010	0.0004		J
1/7/2025	METALS	2501071319	Magnesium, Total	63.3	mg/L	1.0	0.03		
1/7/2025	ANIONS	2501071320	Sulfate	302	mg/L	20	4		
1/7/2025	ANIONS	2501071320	Fluoride, undistilled	0.74	mg/L	0.10	0.010		
1/7/2025	ANIONS	2501071320	Chloride	54.9	mg/L	2.0	0.5		
1/7/2025	ANIONS	2501071320	Alkalinity, Total as CaCO3	253	mg/L	2.0	1.8		
1/7/2025	SM2540C	2501071321	Total Dissolved Solids (TDS)	828	mg/L	10	9		
1/7/2025	6850	2501071322	Perchlorate	0.44	ug/L	0.20	0.047		
1/7/2025	353.2	2501071323	Nitrate+Nitrite as Nitrogen	2.5	mg/L	1.0	0.03		

Analytical Results for Sampling Events at B655-INF-2

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/18/2024	8260	2411181257	Trichlorofluoromethane (CFC 11)	120	ug/L	1.0	0.24		
11/18/2024	8260	2411181257	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.8	ug/L	1.0	0.20		
11/18/2024	8260	2411181257	Trichloroethene (TCE)	61	ug/L	1.0	0.20		
11/18/2024	8260	2411181257	Tetrachloroethene (PCE)	2.8	ug/L	1.0	0.21		
11/18/2024	8260	2411181257	Dichlorofluoromethane (CFC 21)	1.6	ug/L	1.0	0.20		
11/18/2024	8260	2411181257	1,1,2-Trichloro-1,2,2-Trifluoroethane	220	ug/L	2.5	0.50		D
11/18/2024	607	2411181259	N-Nitrosodimethylamine	1.94	µg/L	0.0094	0.0047	52	
11/18/2024	607	2411181259	N-Nitrodimethylamine	1.21	µg/L	0.0094	0.0047	86	
11/18/2024	607	2411181259	Bromacil	0.25	µg/L	0.0094	0.0047	104	
11/18/2024	8270	2411181300	1,4-Dioxane	0.12	ug/L	0.040	0.035		
12/5/2024	8260	2412051010	Tetrachloroethene (PCE)	2.6	ug/L	1.0	0.21		
12/5/2024	8260	2412051010	Unknown	40	ug/L	NA	NA		J TIC
12/5/2024	8260	2412051010	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.6	ug/L	1.0	0.20		
12/5/2024	8260	2412051010	Trichlorofluoromethane (CFC 11)	98	ug/L	1.0	0.24		
12/5/2024	8260	2412051010	Dichlorofluoromethane (CFC 21)	1.2	ug/L	1.0	0.20		
12/5/2024	8260	2412051010	1,1,2-Trichloro-1,2,2-Trifluoroethane	180	ug/L	1.0	0.20		
12/5/2024	8260	2412051010	Trichloroethene (TCE)	53	ug/L	1.0	0.20		
12/5/2024	8260	2412051011	Tetrachloroethene (PCE)	2.5	ug/L	1.0	0.21		
12/5/2024	8260	2412051011	Trichloroethene (TCE)	51	ug/L	1.0	0.20		
12/5/2024	8260	2412051011	Dichlorofluoromethane (CFC 21)	1.2	ug/L	1.0	0.20		
12/5/2024	8260	2412051011	Unknown	39	ug/L	NA	NA		J TIC
12/5/2024	8260	2412051011	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.6	ug/L	1.0	0.20		
12/5/2024	8260	2412051011	1,1,2-Trichloro-1,2,2-Trifluoroethane	180	ug/L	1.0	0.20		
12/5/2024	8260	2412051011	Trichlorofluoromethane (CFC 11)	97	ug/L	1.0	0.24		
12/5/2024	607	2412051013	N-Nitrosodimethylamine	1.88	µg/L	0.0094	0.0047	58	
12/5/2024	607	2412051013	N-Nitrodimethylamine	1.16	µg/L	0.0094	0.0047	95	
12/5/2024	607	2412051013	Bromacil	0.14	µg/L	0.0094	0.0047	92	
12/5/2024	8270	2412051014	1,4-Dioxane	0.089	ug/L	0.040	0.035		
1/7/2025	8260	2501071337	Trichlorofluoromethane (CFC 11)	110	ug/L	1.0	0.24		
1/7/2025	8260	2501071337	1,1,2-Trichloro-1,2,2-Trifluoroethane	210	ug/L	2.5	0.50		D G
1/7/2025	8260	2501071337	Dichlorofluoromethane (CFC 21)	1.7	ug/L	1.0	0.20		
1/7/2025	8260	2501071337	Trichloroethene (TCE)	56	ug/L	1.0	0.20		
1/7/2025	8260	2501071337	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.5	ug/L	1.0	0.20		
1/7/2025	8260	2501071337	Tetrachloroethene (PCE)	3	ug/L	1.0	0.21		

Analytical Results for Sampling Events at B655-INF-2

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
1/7/2025	8260	2501071338	1,1,2-Trichloro-1,2,2-Trifluoroethane	210	ug/L	2.5	0.50		D G
1/7/2025	8260	2501071338	Dichlorofluoromethane (CFC 21)	1.4	ug/L	1.0	0.20		
1/7/2025	8260	2501071338	Tetrachloroethene (PCE)	3	ug/L	1.0	0.21		
1/7/2025	8260	2501071338	Trichloroethene (TCE)	57	ug/L	1.0	0.20		
1/7/2025	8260	2501071338	Trichlorofluoromethane (CFC 11)	100	ug/L	1.0	0.24		
1/7/2025	8260	2501071338	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.5	ug/L	1.0	0.20		
1/7/2025	607	2501071339	N-Nitrosodimethylamine	1.78	µg/L	0.0095	0.0048	40	
1/7/2025	607	2501071339	N-Nitrodimethylamine	1.32	µg/L	0.0095	0.0048	70	
1/7/2025	607	2501071339	Bromacil	0.2	µg/L	0.0095	0.0048	110	
1/7/2025	8270	2501071340	1,4-Dioxane	0.097	ug/L	0.040	0.035		
1/7/2025	METALS	2501071341	Potassium, Total	5.3	mg/L	2.0	0.4		
1/7/2025	METALS	2501071341	Magnesium, Total	62.9	mg/L	1.0	0.03		
1/7/2025	METALS	2501071341	Zinc, Total	0.004	mg/L	0.020	0.003		J
1/7/2025	METALS	2501071341	Vanadium, Total	0.003	mg/L	0.050	0.0007		J RB
1/7/2025	METALS	2501071341	Strontium, Total	2.65	mg/L	0.10	0.002		
1/7/2025	METALS	2501071341	Sodium, Total	51.5	mg/L	1.0	0.3		
1/7/2025	METALS	2501071341	Molybdenum, Total	0.008	mg/L	0.025	0.003		J
1/7/2025	METALS	2501071341	Arsenic, Total	0.0007	mg/L	0.0010	0.0004		J
1/7/2025	METALS	2501071341	Calcium, Total	115	mg/L	1.0	0.3		
1/7/2025	METALS	2501071341	Boron, Total	0.11	mg/L	0.20	0.02		J
1/7/2025	METALS	2501071341	Barium, Total	0.032	mg/L	0.020	0.003		RB
1/7/2025	METALS	2501071341	Nickel, Total	0.047	mg/L	0.040	0.003		
1/7/2025	ANIONS	2501071342	Chloride	55	mg/L	2.0	0.5		
1/7/2025	ANIONS	2501071342	Fluoride, undistilled	0.74	mg/L	0.10	0.010		
1/7/2025	ANIONS	2501071342	Alkalinity, Total as CaCO3	245	mg/L	2.0	1.8		
1/7/2025	ANIONS	2501071342	Sulfate	301	mg/L	20	4		
1/7/2025	SM2540C	2501071343	Total Dissolved Solids (TDS)	842	mg/L	10	9		
1/7/2025	6850	2501071344	Perchlorate	0.47	ug/L	0.20	0.047		
1/7/2025	353.2	2501071345	Nitrate+Nitrite as Nitrogen	2.6	mg/L	1.0	0.03		

Analytical Results for Sampling Events at MPE-1

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/19/2024	8260	2411191255	Tetrachloroethene (PCE)	3.6	ug/L	1.0	0.21		
11/19/2024	8260	2411191255	Trichloroethene (TCE)	70	ug/L	1.0	0.20		
11/19/2024	8260	2411191255	Trichlorofluoromethane (CFC 11)	91	ug/L	1.0	0.24		
11/19/2024	8260	2411191255	Dichlorofluoromethane (CFC 21)	1.4	ug/L	1.0	0.20		
11/19/2024	8260	2411191255	1,1,2-Trichloro-1,2,2-Trifluoroethane	180	ug/L	1.0	0.20		
11/19/2024	8260	2411191255	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.5	ug/L	1.0	0.20		
11/19/2024	8260	2411191255	cis-1,2-Dichloroethene	0.31	ug/L	1.0	0.23		J
11/19/2024	607	2411191257	N-Nitrosodimethylamine	2.78	µg/L	0.0095	0.0048	52	
11/19/2024	607	2411191257	N-Nitrodimethylamine	1.8	µg/L	0.0095	0.0048	86	
11/19/2024	607	2411191257	Bromacil	0.67	µg/L	0.0095	0.0048	104	
11/19/2024	6850	2411191258	Perchlorate	0.54	ug/L	0.20	0.047		

Analytical Results for Sampling Events at MPE-10

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/19/2024	8260	2411191000	Tetrachloroethene (PCE)	2.3	ug/L	1.0	0.21		
11/19/2024	8260	2411191000	1,1,2-Trichloro-1,2,2-Trifluoroethane	110	ug/L	1.0	0.20		
11/19/2024	8260	2411191000	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.4	ug/L	1.0	0.20		
11/19/2024	8260	2411191000	Trichloroethene (TCE)	52	ug/L	1.0	0.20		
11/19/2024	8260	2411191000	Dichlorofluoromethane (CFC 21)	1.7	ug/L	1.0	0.20		
11/19/2024	8260	2411191000	Trichlorofluoromethane (CFC 11)	73	ug/L	1.0	0.24		
11/19/2024	607	2411191002	N-Nitrosodimethylamine	2.34	µg/L	0.0096	0.0048	52	
11/19/2024	607	2411191002	N-Nitrodimethylamine	1.42	µg/L	0.0096	0.0048	86	
11/19/2024	607	2411191002	Bromacil	0.34	µg/L	0.0096	0.0048	104	
11/19/2024	6850	2411191003	Perchlorate	0.52	ug/L	0.20	0.047		

Analytical Results for Sampling Events at MPE-11

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/19/2024	8260	2411191312	1,1,2-Trichloro-1,2,2-Trifluoroethane	12	ug/L	1.0	0.20		
11/19/2024	8260	2411191312	Unknown	5.3	ug/L	NA	NA		J TIC
11/19/2024	8260	2411191312	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	0.6	ug/L	1.0	0.20		J
11/19/2024	8260	2411191312	Dichlorofluoromethane (CFC 21)	0.79	ug/L	1.0	0.20		J
11/19/2024	8260	2411191312	Trichlorofluoromethane (CFC 11)	8.6	ug/L	1.0	0.24		
11/19/2024	8260	2411191312	Trichloroethene (TCE)	4.9	ug/L	1.0	0.20		
11/19/2024	607	2411191314	N-Nitrosodimethylamine	0.17	µg/L	0.0095	0.0048	52	
11/19/2024	607	2411191314	N-Nitrodimethylamine	0.1	µg/L	0.0095	0.0048	86	
11/19/2024	607	2411191314	Bromacil	0.01	µg/L	0.0095	0.0048	104	
11/19/2024	6850	2411191315	Perchlorate	0.32	ug/L	0.20	0.047		

Analytical Results for Sampling Events at MPE-9

Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
11/19/2024	8260	2411190940	1,1,2-Trichloro-1,2,2-Trifluoroethane	190	ug/L	2.5	0.50		D
11/19/2024	8260	2411190940	1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a)	1.4	ug/L	1.0	0.20		
11/19/2024	8260	2411190940	Trichlorofluoromethane (CFC 11)	110	ug/L	1.0	0.24		
11/19/2024	8260	2411190940	Trichloroethene (TCE)	76	ug/L	1.0	0.20		
11/19/2024	8260	2411190940	Dichlorofluoromethane (CFC 21)	1.2	ug/L	1.0	0.20		
11/19/2024	8260	2411190940	Tetrachloroethene (PCE)	3.3	ug/L	1.0	0.21		
11/19/2024	607	2411190942	N-Nitrosodimethylamine	2.64	µg/L	0.011	0.0053	52	
11/19/2024	607	2411190942	N-Nitrodimethylamine	1.55	µg/L	0.011	0.0053	86	
11/19/2024	607	2411190942	Bromacil	0.47	µg/L	0.011	0.0053	104	
11/19/2024	6850	2411190943	Perchlorate	0.53	ug/L	0.20	0.047		

Appendix B
Sampling Event Logbook Entries and Internal CoC Forms

Matt Garcia & Richard Mirabal present. Weather is clear & cool. This well will be purged & sampled using a dedicated bladder pump Samples will be collected using a new teflon discharge tube. Water Quality Parameters will be monitored using an In-situ Aqua troll 500. Carboy 62 IDW - 1.0 gal

Calibrations
DO - Cal-in 100% Sat.
Cond - " using 1413 us/cm STD.
pH - " " 4, 7, 10 Buffers
Turb - " " 20 NTU STD

Parameters(Time)	Temp	cond	PH	ORP	DO	Turb	DTW
1) 241115 0730C	18.88	441.3	7.63	91.7	7.71	1.75	187
2) —— 0735C	18.76	443.2	7.66	92.3	7.44	1.22	"
3) —— 0740C	18.61	445.2	7.71	93.3	7.55	1.20	"

Samples

Sample	Analysis	preserv.	Container	Lot	Lab.
241115 0750C	8260	Ice/HCL	(3) 40mL vials	2774	ALS
—— 0751C	" (EB)	"	"	"	"
—— 0752C	6007	Ice	(1) 1L Amber	0119901 J	JRD
—— 0753C	8270D	"	(2) 1L Amber	NA	ALS
—— 0754C	GRO	Ice/HCL	(3) 40mL vials	2774	"
—— 0755C	DRO	Ice	(1) 1L Amber	NA	"
—— 0756D	T. Metals	Ice/HNO_3	(2) 125mL Poly	0513232AES	"
—— 0757C	Anions/Alk	Ice/zero Hs	(2) 250mL Poly	0520242ERG	"
—— 0758C	TDS	Ice	(1) 850mL Poly	070824 2 ERG	"
—— 0759C	TKN	Ice/H_2SO_4	"	0527244ERG	"
—— 0800C	Chloride	Ice	"	0708242ERG	"
—— 0801C	NO^2NO^3	Ice/H^2SO^4	"	0527244ERG2	"

Continued from page

Read and Understood By

Matt G 11/15/24 Ron W Jr 11-18-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/15/24 Page 1 of 1

Sample Location: 100-D-176

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	8260	6007	8270D	GRO	DRO	T. Metals		Charge Number
241115 0750C	3	A	X							X GMD
0751C (FD)	3		X							
0752C	1			X						
0753C	2				X					
0754C	3					X				
0755C	1						X			
0756C	2							X		

Sample Location: 100-D-176

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Anions/4Hs	TDS	TKN	Chloride	NO_2/NO_3			Charge Number
241115 0757C	2	A	X							X GMD
0758C	1			X						X 002
0759C	1				X					
0800C	1					X				
0801C	1						X			

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Matt Boyd	11/15/24 0845hrs	Paul Munch	11-18-24 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Robert Burrows present. Weather is clear & cold. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen in use. Probe #4951. Surface checks performed on probe prior to sampling.

Initial Parameters	Final	Meter ID		
Time - 2411200910Y	2411200955Y	pH/Cond	- #15	
pH - 7.29	7.22	Turb	- #7	
Temp - 18.5 °C	18.9 °C	= SIO	- 50.1 NTU	
Cond - 1084 uS/cm	1186 uS/cm	= RSL	- 55.3 NTU	
Turb - 1.71 NTU	1.21 NTU	= Lot	- A3293	
pHpre - 7.05 / 10.01 (10.3°C)	7.03 / 10.05 (12.1°C)	= Exp	- 11/30	
pHpost - 7.06 / 10.04	7.02 / 10.04			
DTW - 43.43'	43.90'	Buffers	lot	Exp
Atmos - 12.46 psia	12.49 psia	7	CC779743	6/25
	IDW - 0.25 gal	10	CC783411	8/25

SAMPLES

Sample #	Analysis	Preserve	Container	lot	lab
2411200935Y	TDS by SM2540C	Ice	(1) 250 mL poly	0708242ERG	ALS
0936Y	TKN	H_2SO_4/Ice	=	0527244EKL	=
0937Y	Chloride	Ice	=	0708242ERG	=
0938Y	NO2/NO3 by 353.2	H_2SO_4/Ice	=	0527244EKL	=

Runs	1)	2)	3)
	94.77	94.75	94.73
	42.64	42.70	42.71
	42.68	42.68	42.72
	94.74	94.71	94.74

* High traffic area with heavy equipment working close by.

Continued from page

Read and Understood By

Signed — 11/20/24 Date

Signed — 11-21-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/20/24 Page 1 of 1

Sample Location: 200 . H . 225

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: TOS	TKN	Chloride	NO2/NO3				Charge Number
241120 0935 Y	1	A	X							X002
0936 Y	1	↓		X						↓
0937 Y	1				X					
0938 Y	1					X				

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
NM CB	11/20/24 @ 1030			11-21-24 / 0818

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Robert Burrows present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed stainless steel sample tubes. Gren in use. Probe # 4951. Surface checks performed on probe prior to sampling.

30-Min Equipment Blanks

Carbon/G-3

Sample #	Analysis	Preserve	Container	lot	lab
241118/100Y	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	ALS

Initial Parameters	Final
Time - 241118/250Y	241118/350Y
PH - 7.57	7.23
Temp - 19.8 °C	18.9 °C
Cond - 804 µS/cm	836 µS/cm
Turb - 2.88 NTU	1.22 NTU
PHpre - 7.05/10.04 (16.9 °C)	7.06/10.05 (17.4 °C)
PHpost - 7.01/10.04	7.05/10.03
DTW - 222.28'	222.32'
Atmos - 12.25 psia	12.27 psia
	IDW - 0.5 gal

Meter ID

PH/Cond - #15

Turb - #7

= STD - 50.1 NTU

= ROG - 50.3 NTU

= Lot - A3293

= Exp - 11/30/24

Buffers	lot	Exp
7	CC774793	6/25
10	CC783411	8/25

SAMPLES

Sample #	Analysis	Preserve	Container	lot	lab
241118/315Y	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	ALS
— 316Y	= (Dup)	=	=	=	=
— 317Y	607/Bromacil	Ice	(1) L Amber	01199013	SRI
— 340Y	Total Metals	HNO3/Ice	(2) 125 ml poly	NA	ALS

Runs	1)	2)	3)
	50.02	50.01	49.99
	62.64	62.59	62.55
	62.55	62.50	62.48
	49.99	49.99	49.95

Continued from page

Read and Understood By

Signed _____ 11/18/24 Date

Signed _____ 11-19-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/18/24 Page 1 of 1

Sample Location: 200 . I . ~~375~~ MA 300

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607/8270	T. Metals					Charge Number
241118110OY (EB)	3	A	X							XGMD
1315Y	3	↓	X							↓
1316Y (Dup)	3		X							
1317Y	1			X						
1340Y	2				X					

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MA	11/18/24 @ 1510			11-18-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

11/18/24

26

PROJECT 200-I-375 WSI ENV-0020

Notebook No. D64 # 133(Y)

Continued from page _____

Marcus Avalos & Robert Burrows present. Weather is cloudy + cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes Gen in use. Probe # 4951. Surface checks performed on probe prior to sampling.

30-Min Equipment Blanks

Carboy G-3

Sample #	Analysis	Preserve	Container	lot	lab
241118 0845Y	VOA by 8260	HCl/Ice	(3) 40ml vials	2774	ALS
—— 0846Y	607/Bromacil	Ice	(1) 1L Amber	0119901J	SRI

Initial Parameters	Final
Time - 241118092047	241118102047
PH - 7.35	7.17
Temp - 19.7°C	19.2°C
Cond - 941 uS/cm	1029 uS/cm
Turb - 1.26 NTU	1.13
PHpre - 7.00/10.01 (17.5°C)	7.01/10.02 (16.2°C)
PHpost - 7.00/10.02	7.02/10.03
DTW - 222.22'	222.28'
Amos - 12.34 psia	12.28 psia
	IDW - 0.5 gal

Meter ID

PH/Cond - #15

Turb - #7

- STD - 50.1 NTU
- RDG - 50.3 NTU
- Lot - A3293
- Exp - 11/30/24

Buffers	lot	Exp
7	CC779793	6/25
10	CC703411	8/25

SAMPLES

Sample #	Analysis	Preserve	Container	lot	lab
241118 0950Y	VOA by 8260	HCl/Ice	(3) 40ml vials	2774	ALS
—— 0951Y	607/Bromacil	Ice	(1) 1L Amber	0119901J	SRI
—— 1015Y	Total Metals	HNO3/Ice	(2) 125ml poly	NA	ALS

Rons	1)	2)	3)
	82.80	82.76	82.75
	97.29	96.20	96.22
	95.95	96.08	95.96
	82.76	82.73	82.72

Continued from page

Read and Understood By

MA CA — 11/18/24 Date

B-8

Signed — 11-19-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11.18.24 Page 1 of 1

Sample Location: 200 · I · 375

Analytical Requirement: 8260 | 607/8270 | T. Metals

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	8260	607/8270	T. Metals					Charge Number
241118 0845 Y (EB)	3	A	X							XGMD
0846 Y (EB)	1			X						
0950 Y	3		X							
0951 Y	1			X						
1015 Y	2				X					

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MJC	11/18/24 @ 1510			11-19-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Robert Burrows present. Weather is clear & cool. This zone will be sampled using S steam cleaned & triple rinsed, stainless steel sample tubes. Gen in use. Probe # 4951. Surface checks performed on probe prior to sampling.

30-Min Equipment Blanks

Carboy Gr. 3

Sample #	Analysis	Preservative	Container	lot	lab
241115 1030 Y	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	A's

Initial Parameters		Final		Meter ID	
Time	241115 1100 Y	241115 1220 Y		pH/Cond	15
pH	7.85	7.66		Turb	#7
Temp	21.2 °C	21.5 °C		< $10	50.1 NTU
Cond	990 us/cm	1054 us/cm		= RDG	51.8 NTU
Turb	1.51 NTU	1.31 NTU		: lot	A3293
PHpre	7.05/10.04 (18.7°C)	7.02/10.05 (19.4°C)		: exp	11/30/24
PHpost	7.01/10.02	7.00/10.02			
DTW	221.02'	221.07'			
Atmos	12.30 psia	12.34 psia			
		IDW: 0.5 gal			

SAMPLES

Sample #	Analysis	Preservative	Container	lot	lab
241115 1125 Y	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	A's
— 1126 Y	607/Bromacil	Ice	(1) 1L Amber	011490 IJ	SPI
— 1127 Y	Total Metals	HNO3/Ice	(2) 125 ml poly	NA	A's
— 1155 Y	Anions/Alk	Ice/Zero HS	(2) 250 ml poly	07082426126	=
— 1156 Y	TDS by SM2540C	Ice	(1) =	=	=
— 1157 Y	Perchlorate	Ice/1/3 HS	(1) 125 ml poly	08123426120	=
— 1158 Y	NO2/NO3 by 353.2	H2SO4/Ice	=	05272446KL	=

Runs	1)	2)	3)	4)
	132.98	132.92	132.82	132.76
	175.32	175.36	175.24	175.24
	175.26	175.31	175.24	175.23
	132.95	132.92	132.82	132.74

Continued from page

Read and Understood By

Signed — Date 11/15/24 — Signed — Date 11-18-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 200.I.490 Page 1 of 1

Sample Location: 11.15.24

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	T. Metal	Anions/Alk	TDS	Perchlorate	NO2 NO3	Charge Number
241115 1030-1 (EB)	3	A	X							XGMD
1126 Y	1			X						
1127 Y	2				X					
1155 Y	2					X				
1156 Y	1						X			
1157 Y	1							X		
1158 Y	1								X	

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260							Charge Number
241115 1125 4	3	A	X							XGMD

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MJ	11.15.24 @ 1240			11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Robert Burrows present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen in use: Probe #4951. Surface checks performed on probe prior to sampling.

30-Min Equipment Blanks

Carboy, G-3

Sample #	Analysis	Preservative	Container	lot	lab
241115 0815 Y	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	ALS
—— 0816 Y	Total Metals	HNO3/Ice	(2) 125 ml poly	NA	"

Initial Parameters		Final	
Time	241115 0900 Y	241115 0958 Y	
pH	7.38	7.53	
Temp	20.5 °C	20.2 °C	
Cond	1548 µS/cm	1720 µS/cm	
Turb	2.28 NTU	1.63 NTU	
pHpre	7.05/10.04 (14.4°C)	7.01/10.02	
pHpost	7.04/10.03	7.00/10.05	
DTW	220.95'	221.02'	
Atmos	12.31 psia	12.33 psia	
		IDW: 0.5 gal	

Meter ID

pH/Cond: 15

Turb: 7

: OD: 50.1 NTU

: POG: 51.8 NTU

: Lot: A83293

: Exp: 11/30/24

Buffers	lot	Exp
7	CC179793	6/25
10	CC183411	8/25

SAMPLES

Sample #	Analysis	Preservative	Container	lot	lab
241115 0930 Y	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	ALS
—— 0931 Y	607/Bromacil	Ice	(1) 1L Amber	011990 J	SRI
—— 0932 Y	Total Metals	HNO3/Ice	(2) 125 ml poly	NA	ALS

Runs	1)	2)	3)
	213.44	213.34	213.28
	254.58	254.53	254.54
	254.40	254.35	254.37
	213.34	213.28	213.20

Continued from page

Read and Understood By

11/15/24 Date

11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/15/24 Page 1 of 1

Sample Location: 200 · I · 675

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607 / Bro	T. Metals					Charge Number
241115 0815Y (EB)	3	A	X							XGMD
0816Y (EB)	2	|			X					|
0930Y	3	|	X							|
0931Y	1	|		X						|
0932Y	2	|			X					|

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MA GS	11/15/24 @ 1240		[signature]	11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Craig Del Ferraro present. Weather is clear & warm. This zon will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen. in use. Probe #4951. Surface checks performed on probe prior to sampling. Robert Burrows replaced C. Del Ferraro on 11/15/24

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241114 1420Y	VOA by 8260	ice/HCL	(3)40ml vials	2774	ALS

Initial Parameters

Time - 241114 1500Y
PH - 7.54
Temp - 20.6°C
Cond - 1954us/cm
Turb - 2.82 NTU's
pH pre - 7.03/10.01 (25.5°C)
pH post - 7.02/10.01
DTW - 220.90ft.
Atmos - 12.35psia

Final

Time - 241115 0735Y
PH - 7.04
Temp - 20.7°C
Cond - 2.05 ms/cm
Turb - 2.29 NTU
pH pre - 7.05/10.03 (17.5°)
pH post - 7.03/10.04
DTW - 220.95 ft.
Atmos - 12.32 psia
IDW - 0.5 gal

Meter ID

pH/Cond - 15
Turb - 7
" Std - 50.1 NTU's
" rdg - 51.6 NTU's
" lot - A3293
" Exp - 11/30/24

Buffers	Lot	Exp
7	CC777993	6/2
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241115 0710Y	VOA by 8260	ice/HCL	(3)40ml vials	2774	ALS
— 0711Y	607/Bromacil	ice	(1)1L Amber	01199015	SRS
— 0712Y	Total Metals	ice/HNO3	(2)125ml polys	N/A	ALS

Runs	1)	2)	3)
	264.21	264.96	265.00
	306.00	305.89	305.87
	305.97	305.82	305.80
	264.27	264.99	264.98

Continued from page N/A

Read and Understood By

MJ CS — Signed — 11/15/24 — Date

Jose U Munoz — Signed — 11-18-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/14/24 Page 1 of 2

Sample Location: 200-I-795

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260							Charge Number
241114142OY (EB)	3	A	✓							XGMD

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelZuno	11/14/24/1520hrs.		[signature]	11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/15/24 Page 1 of 1

Sample Location: 200 · I · 795

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	667/Bro	T. Metals					Charge Number
241115 0710 4	3	A	X							XGMD
07114	1	1		X						1
07124	2	1			X					1

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MJ Gut	11/15/24 @1240		[signature]	11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

R. Burrows & Tony Torres present. The weather is clear & cool. The well will be purged & sampled using a dedicated Teflon Bladder pump. Samples collected from a Teflon discharge tube. Water Quality Params collected from a Inst. Aqua Troll 500 Serial no. 6-2

Calibrations

Do sensor cal'd in 100% saturation
pH sensor cal'd in 4, 7, 10 Buffers.
Cond sensor cal'd in 1413 µs/cm standard.
Turb meter # 8 std 10.65 Rdg 9.78 GT# AJ295 Exp 11/24

Transducer
Pressure 4.80
Temp 21.09
Depth 11.05

Params

Sample #	Temp	Cond	DO	ORP	pH	Turb
241112 0925A	20.85 C	1,262.3	5.03	129.1	7.38	0.59
— 0926A	20.86	1,263.0	5.00	128.5	7.41	0.63
— 0927A	20.86	1,262.3	5.01	129.2	7.38	0.61

Samples

Sample #	Analysis	Preserv	Cont	Lab
241112 0930A	8260	ICE/HCl	(3) 40ml VOAs	ALS
— 0931A	" (FB)	"	"	"
— 0932A	600	ICE	(1) 1LT Amber	SNT
— 0933A	8270	"	(2) "	ALS
— 0934A	Pesticides	"	(1) "	"
— 0935A	Herbicides	"	"	"
— 0936A	Dioxins/Furans	"	"	SNT
— 0937A	PCB's	"	"	ALS
— 0938A	Phenolics	ICE/H_2SO_4	(1) 250ml Amber	"
— 0939A	Total Metals	ICE/HNO$_3$	(2) 125ml poly	"
— 0940A	NO_2/NO_3	ICE/H_2SO_4	(1) 250ml poly	"
— 0941A	Cyanide	ICE/NaOH	"	"
— 0942A	Sulfides	ICE/NaOH/ZA	"	"

Continued from page

Read and Understood By

T. [signature] 11-12-24
Signed Date

[signature] 11-12-24
Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-12-24 Page 1 of 1

Sample Location: 400-C-143

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	8260	6010	8270	Pesticides	TPH	Dioxins/Furans		Charge Number
241112-0930A	3	A	X							X6[illegible]D
— 0931A	3		X							
— 0932A	1			X						
— 0933A	2				X					
— 0934A	1					X				
— 0935A	1						X			
— 0936A	2							X		

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	PCBs	Phenolics	Total Metals	WO2/NO3	Cyanide	Sulfide		Charge Number
— 0937A	1	A	X							
— 0938A	1			X						
— 0939A	1				X					
— 0940A	1					X				
— 0941A	1						X			
— 0942A	1							X		

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. [illegible]	11-12-24/1100		[illegible]	11-13-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Dan Halvorsen & Tony Tarker present. The weather is clear & warm. This well will be purged & sampled using a Dedicated Teflon Bladder pump. Samples collected from a Teflon discharge Tube. Params collected from a Aquatroll 500 From in situ.

Calibrations

DTW 387.20

Dosenson cal'd in 100% saturation
Cond sensor cal'd in 1413 µs/cm std
pH sensor cal'd in 4, 7, 10 Buffers.
Turb # 20 Std 9.95 Rdg 9.95 Lot # A3289 Exp 11/24

Params

Sample #		Cond	Temp	Do	orp	pH	Turb
24/11/15	1025A	801.24	20.83	5.23	258.1	7.60	5.27
—	1026A	800.64	20.76	5.22	259.1	7.60	4.49
—	1027A	802.87	20.89	5.22	259.8	7.60	3.27

Samples.

Sample #		Analysis	Preserv	Cont	Lab
24/11/15	1030A	8260	Ice/HCl	(3) 40 ml vials	ACS
—	1031A	" (FB)	"	"	"
—	1032A	6010	Ice	(1) 1LT Amber	SMS
—	1033A	8270	"	(2) "	ACS
—	1034A	Total Metals	Ice/HNO_3	(2) 125ml poly	"
—	1035A	" (Dup)	"	"	"
—	1036A	Anions/Alk	Ice	(2) 250ml poly	"
—	1037A	TDS	"	(1) "	"
—	1038A	Perchlorate	"	"	"
—	1039A	NO_2/NO_3	Ice/H_2SO_4	"	"

Continued from page

Read and Understood By

T. S. 11-15-24 Date

Dan W Mundt 11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-15-24 Page 1 of 1

Sample Location: 600C-005-GW

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	8260	6010	8270	TOTAL METALS	ANIONS ACK			Charge Number
										X6MD
241115 1030A		A	X							
1031A (FB)			X							
1032A				X						
1033A					X					
1034A						X				
1035A (Dup)						X				
1036A							X			

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	TDS	PERFLUORINATED	NO2/NO3					Charge Number
1037A	1	A	X							
1038A	1	A		X						
1039A	1	A			X					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T-D	11-15-24/1130			11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & Richard Miraball Present. Weather is clear & cool. This well will be Purged & sampled using a dedicated bladder Pump. Samples will be collected using anew teflon discharge tube. Water Quality Parameters will be monitored using an In-Situ Aqua troll 500. Carboy G2 IDW. 1.0 gal

Calibrations

DO - cal in 100% Sat.
Cond- " using 1413 us/cm STD
PH - " " 4, 7, 10 Buffers
Turb - " " 20 NTU STD

Parameters (Time)	Temp	Cond. ms/cm	PH	ORP	DO	Turb.	DTW
1) 241115 0930C	19.78	19.55	7.96	156.2	7.72	13.6	179.0
2) — 0935C	19.66	19.41	7.91	155.1	7.76	12.7	"
3) — 0940C	19.72	19.45	7.88	152.1	7.72	13.1	"

Samples

Sample	Analysis	Preserv.	container	Lot	Lab
241115 0945C	TDS	Ice	(D250mL Poly	0708242ERG	Ac
— 0946C	" (FB)	"	"	"	"
— 0947C	TKN	Ice/H2SO4	"	@5272244EKD	"
— 0948C	" (FB)	"	"	"	"
— 0949C	Chloride	Ice	"	0708242ERG	"
— 0950C	" (FB)	"	"	"	"
— 0951C	NO2NO3	Ice/H2SO4	"	0527244EKI	"
— 0952C	" (FB)	"	"	"	"
					"

Continued from page

Read and Understood By

Matt Garcia 11/15/24 Signed Date

Ron Mundle 11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 15 Nov 24 Page 1 of 1

Sample Location: 600-C-173

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	TPS	TDS (F8)	TKN	TKN (K3)	CHLORIDE	CHLORIDE (F3)	Charge Number
241115 0945C	1		X						X002 ~~GMD~~
" 0946C	1			X					
" 0947C	1				X				
" 0948C	1					X			
" 0949C	1						X		
" 0950C	1							X	

Sample Location: 600-C-173

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	NO_3 as NO_3	NO_2 as NO_3 (IC8)	Charge Number
241115 0951C	1		X		X002 ~~GMD~~
" 0952C	1			X	

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MICHAEL	15 Nov 24 / 1000hrs		[signature]	11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

DAN HALVORSEN & TONY TORRES PRESENT. THE WEATHER IS CLEAR & COOL. THE WELL WILL BE PURGED & SAMPLED USING A DEDICATED TEFLON BLADDER PUMP. PARAMETERS COLLECTED FROM A INSITU AQUA TROLL 500. CAMBY 6-1

DTW 165.35

CALIBRATIONS

DO SENSOR CAL'd IN 100% SATURATION

COND SENSOR CAL'd IN 1413 µs/cm STANDARD

pH SENSOR CAL'd IN 4, 7, 10 BUFFERS.

TURB METER #20 STD 9.95 Rdg 9.98 LOT # A3239 Exp. 11/24

PARAM'S

SAMPLE #	TEMP	pH	DO	ORP	COND	TURB
241115 0755A	20.14	8.68	1.10	101.5	701.93	1.08
—— 0756A	20.09	8.68	1.07	101.7	700.81	1.14
—— 0757A	20.17	8.68	1.08	101.9	699.31	1.10

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONT	LAB
241115 0800A	8260	ICE/HCl	(3) 40ml VIALS	ALS
—— 0801A	" (FB)	"	"	"
—— 0802A	" (Dup)	"	"	"
—— 0803A	8270	ICE	(1) 1LAmber	SRL
—— 0804A	8270	"	(2) "	ALS
—— 0805A	TOTAL METALS	ICE/HNO_3	(2) 125ml poly	"
—— 0806A	ANIONS/ALK	ICE	(2) 250ml poly	"
—— 0807A	TDS	"	(1) 250ml poly	"
—— 0808A	PERCHLORATE	"	(1) 125ml poly	"
—— 0809A	NO_2/NO_3	ICE/H_2SO_4	(1) 250ml poly	"

Continued from page

Read and Understood By

J-D — 11-15-24 — Jon W Munch — 11-18-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 100-001-GW

Sample Location: 11-15-24			Analytical Requirement							
Pertinent Notes (if any)	# of Containers	Sample Matrix*	8260	6007	8270	TAL Metals	Anions / ALK			X6MD
Sample Number										Charge Number
241115-0800A	3	A	X							
— 0801A (FIS)	3	|	X							
— 0802A	3	|	X							
— 0803A	1	|		X						
— 0804A	2	|			X					
— 0805A	2	|				X				
— 0806A	2	⊥					X			

Sample Location:			Analytical Requirement							
Pertinent Notes (if any)	# of Containers	Sample Matrix*	TDS	Perchlorate	200.7 / 200.8					
Sample Number										Charge Number
— 0807A	1	A	X							
— 0808A	1	|		X						
— 0809A	1	⊥			X					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T-Dy	11-15-24 / 1150		[signature]	11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

MATT GARCIA & TONY TRUEZ PRESENT THE WEATHER IS CLEAR & Cool. THIS WELL WAS pumped dry & LET RECOVERED PRIOR TO SAMPLING. Carboy G-1

METER ID's
pH/COND # 8
Turb # 20
" STD 9.95
" RDG 9.55
" LOT # A3235
" Exp. 11/24

INITIAL DTW = 142.85
TOTAL DTW = 160.00
3 CASING VOL = 34 gALLONS

	INITIAL	FINAL
	241119 1340 A	241119 1353A
pH	8.12	8.11
Temp	20.8°C	20.6°C
Cond	1258 uS/cm	1249 uS/cm
Turb	9.60 NTUs	9.68 NTUs
phone	7.05, 10.01 (17.5°C)	7.03, 10.02 (17.7°C)
phost	" "	7.03, 10.05

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONT	Carb
241119 1341 A	8260	ICE/HCl	(3) 40ml VIA's	N/S
1342A	N (P,S)	"	"	"
1343A	6010	ICE	(1) 1LT Amber	SNT
1344A	8270	"	(2) "	N/S
1345A	TOTAL METALS	ICE/HNO3	(2) 125ml poly	N
1346A	ANIONS/ALK	ICE	(2) 250ml poly	N
1347A	TDS	"	(1) 250ml poly	N
1348A	PERCHLORATE	"	(1) 125ml poly	N
1349A	NO2/NO3	ICE/H2SO4	(1) 250ml poly	N

Continued from page

Read and Understood By

J. D. 11-19-24 Jon Munde 11-20-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-19-24 Page 1 of 2

Sample Location: 400-001-GW

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	8260	6070	8270	4044 (Tech)	A4-4500 ACK	TDS		Charge Number
										XGMD
241115 1341A	3	A	X							
1342-A (FB)	3	A	X							
1343A	1	A		X						
1344A	2	A			X					
1345A	2	A				X				
1346A	2	A					X			
1347A	1	A						X		

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	PERC-SATE	300.0/9056						Charge Number
										XGMD
1348A	1	A	X							
1349A	1	A		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-19-24/1500			11-20-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Frank Gillespie & Tim Moore present. These samples will be purged and sampled using a dedicated sampling port. Carboy "Pinefront"

Parameters	meter ID	Buffers	LOT #	EXP
Time 241118 0945	PH/cond-Pinefront 7		CC779793	6/25
PH 7.52	Turb-Pinefront 10		CC783411	8/25
Temp 24.3 C	" STD			
Cond 1076 us/cm	" RDG			
Turb 0.61 NTU	" LOT # N/A			
PH pre 6.99-10.00 (24.4°C)	EXP - 11/30/24			
PH post 7.02/10.02				

Samples

Sample #	Analysis	Pres	LOT #	LAB CONT
241118 0950	VOA by 8260 (11)	ICE/HCL	N/A	A/S (3) 40mL vial
0951	" (FB)	"	"	" "
0952	NDMA 10 MIN/Dio by 607	ICE	"	SWRI (1) L+ amber
0953	LLNDMA	"	"	" "
0954	" (FB)	"	"	" "
0955	SVOA — Sim	ICE	"	A/S (1) 250mL amber

Continued from page N/A

Read and Understood By

Tim Moore 18 Nov 2024 Tom Mundt 11-18-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-18-24 Page 1 of 1

Sample Location: B650-EFF-1

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMNJ/ BROMACIL LOW LEVEL NDMA	TOTAL NITRATE ANIONS/AMM	TDS SM2540C	Charge Number
241118 0950	3	A		X				XGMD
— 0951 (FB)	3	A		X				"
— 0952	1	A			X			"
— 0953	1	A				X		"
— 0954	1	A				X		"

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241118 0955	1	A			X					XGMD
										"

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	11-18-24 (1030)	[signature]	11-19-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged and taken from a dedicated sampling port. Calboy "Pine front"

Parameters	meter ID	Buffers	LOT #	Exp
Time 24/11/18/1000	pH/cond-Pine front 7		cc779793	6/25
pH 7.03	TWB-Pine front 10		CC 783411	8/25
Temp 24.4	"STD 9.66 NTU			
cond 1057 us/cm	"RDG 9.65 NTU			
TWB 1.24 NTU	"LOT # - N/A			
pH Pre 6.98-10.00 (22.1°) Exp - 11/30/24				
pH Post - 7.02/10.04				

Samples

Sample #	Analysis	Pre	LOT #	LAB CONT
24/11/18/1005	VOA by 8260	ICE'd	N/A	ALS (3) 40 mL vial
1006	"(Dup)	"	"	" "
1007	"(FB)	"	"	" "
1008	NDMA/DMW/Robby607	ICE	"	SWRI (1) LA amber
1009	SVOA — SIM	"	"	ALS 4) 250 mL amber

Continued from page N/A

Read and Understood By

18 Nov 2024 — 11-18-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/18/24 Page 1 of 1

Sample Location: B650-INF-1

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMNP/1,4 BROMACIL LOW LEVEL NDMA	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
241118 1005	3	A		X						XGMD ..
1006 (AMD)	3	A		X						..
1007 (FB)	3	A		X						..
1008	1	A				X				..

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241118 1009	1	A				X					XGMD ..

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	11-18-24 (1030)		[signature]	11-19-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be taken from a dedicated sampling port after pulsing is complete. Carboy "Plume front"

Parameters	Meter ID	Buffers	Lot #	Exp
Time 24 11 18 1237	pH/cond-Plume front	7	CC779793	6/25
pH 7.81	Turb-Plume front	10	CC783411	8/25
Temp 22.8°C	STD 9.66 NTU			
cond 1143 us/cm	RDG 9.66 NTU			
Turb 0.34 NTU	Lot # N/A			
Phpre 6.94-10.01 (17.2°C)	Exp 11/30/24			
PhpostT 7.02/10.02				

Samples

Sample #	Analysis	Pres	Lot #	LAB cont
24 11 18 1242	VOA by 8260(L)	ICE & HCl	N/A	ALS (3) 40 mL vial
1243	" (FB)	"	"	"
1244	NDMA/Bromide by 607	ICE	"	SWRI (1) Lt amber
1245	LL NDMA	"	"	"
1246	" (FB)	"	"	"
1247	SVOA SIM	"	"	ALS (1) 250 mL amber

TRIP BLNKS

Sample #	Analysis	Pres	Lot #	LAB cont
24 11 18 1205	VOA by 8260(L)	ICE & HCl	N/A	ALS (3) 40 mL vial
1206	LL NDMA	ICE	"	SWRI (1) Lt amber

Continued from page N/A

Read and Understood By

Tim Moore 18 Nov 2024 Date

Tom Mundt 11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-18-24 Page 1 of 1

Sample Location: B655-EFF-2

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMNJ/BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS	ANIONS / ALK	TDS SM2540C	Charge Number
241118 1242	3	A		X					XGMD
1243 (FB)	3	A		X					"
1205 (TB)	3	A		X					"
1244	1	A			X				"
1245	1	A				X			"
1246 (FB)	1	A				X			"
1206 (TB)	1	A				X			"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE	Charge Number
241118 1247	1	A			X	XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	11-18-24 C1330		11-19-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged then taken from a dedicated sampling port. Carboy: "Pine Front"

Parameters	Meter ID	Buffers	LOT#	Exp
Time 24118/1252	pH/cond-Pine Front	7	CC779793	6/25
pH 6.96	Turb-Pine Front	10	CC783411	8/25
Temp 23.2 °C	STD 9.66 NTU			
Cond 1121 us/cm	RDG 9.69 NTU			
Turb 0.49 NTU	LOT# N/A			
PhPre 7.00-10.01 (19.6°C)	Exp- 11/30/24			
PhPost				

Samples

Sample #	Analysis	Pres	LOT#	LAB cont
24118/1257	VOA by 8260	ICE & HCl	N/A	ALS (3) 40mL Vial
— 1258	" (FB)	"	"	"
— 1259	NDMA 1,4-Dioxane/Biobyg007	ICE	"	SWRI (1) Liter bottle
— 1300	SVOA-SIM	"	"	ALS (1) 250mL bottle

Continued from page N/A

Read and Understood By

18 Nov 2024 Date

Signed

11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-18-24 Page 1 of 1

Sample Location: 3655-INF-2

Sample Number	# of Containers	Sample Matrix*	VOA 8260	LL-VOA 8260LL	NDMA/DMNP/1,4 BROMACIL LOW LEVEL NDMA	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
241118 1257	3	A	x						XGMD
1258 (FB)	3	A	x						"
1259	1	A			x				"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	PERCHLORATE 16850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241118 1300	1	A			x					XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	11-18-24 (1530)		11-19-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Dan Halvorsen present. Weather is windy and cool. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected from a new Teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Cadday GI in use.

Calibrations:

DO Sensor - In 100% Saturated Air. Flow: 2 gal.

PH Sensor: Using 4, 7, 10 Buffers.

Conductivity: Using a 1413 µs/cm STD.

Turbidity: Using a 10 NTU STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb	(DTW)
24110614008A	19.80	848	7.32	7.73	146	0.47	
——— 1410 A	19.81	847	7.31	7.70	147	0.49	
——— 1404 A	19.80	847	7.33	7.72	147	0.45	

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
24110614008A	VOC by 8260	Ice/HCl	(3) 40 ml Vial		ALS
——— 1409 A	" " (FB)	"	"		"
——— 1410 A	NDMA/PNM Bromacil by 607	Ice	(1) 1L Amber		SRL
——— 1411 A	NDMA LL	"	"		"
——— 1412 A	" " (Dup)	"	"		"
——— 1413 A	" " (FB)	"	"		"
——— 1415 A	Total metals	Ice/HNO3	(2) 125 ml Poly		ALS

Blind Controls

Sample #	Analysis	Preserve	Container	Lot	Lab
24110614141A	NDMA LL	Ice	(1) 1L Amber	24KD029A	SRL

** NOTE: 1L Amber Bottles are being shipped in with loose caps.

Continued from page

Read and Understood By

11-6-2024

11-7-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-6-2024 Page _____ of _____

Sample Location: BLM-2-630

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: VOA	LST	1DMALL					Charge Number
241106 1408 A		3	A	X							XGMD
1409 A	FB	3		X							
1410 A		1			X						
1411 A		1				X					
1412 A	DUP	1				X					
1413 A	FB	1				X					
1414 A	BC	1				X					

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: METALS							Charge Number
241106 1415 A		2	A	X							

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-6-2024 1510			11-7-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Dan Helvorsen present. Weather is cloudy and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new Teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Cerbay GOI in use.

Calibrations:

DO Sensor: In 100% saturated air.
pH Sensor: Using a 4, 7, 10 Buffer
Conductivity: Using a 1413 us/cm STD.
Turbidity: Using a 10 NTU STD.

DTW: 178.85 ft.
Total 179.25 ft.

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb	DTW
241107 1345 A	20.91	3832	1.65	7.84	153	79.3	178.10
1341 A	20.91	3818	1.62	7.81	151	78.5	178.26
1349 A	20.92	3822	1.62	7.80	151	78.1	179.00

SAMPLES

Sample #	Analysis	Preserv.	Container	Lot	Lab
241107 1353 A	VOA by 8260	Ice/HCl	(3) 40 ml Vial		ALS
1354 A	" " (FB)	"	"		"
1355 A	Nonaromatic Bromacil by 60	Ice	(1) 1L Amber		SRL
1356 A	Pesticides	"	"		ALS
1357 A	Herbicides	"	"		"
1358 A	Dioxins/furans	"	"		SRL
1359 A	SVOA by 8270D	"	(2) "		ALS
1400 A	PCB's	"	(1) "		"
1401 A	Phenolics	Ice/H_2SO_4	(1) 250 ml Amber		"
1402 A	Total metals	Ice/HNO_3	(2) 125 ml Poly		"
1403 A	NO_2/NO_3	Ice/H_2SO_4	(1) 250 "		"
1404 A	Cyanide	Ice/NaOH	(1) 125 "		"
1405 A	Sulfide	Ice/NaOH Zinc Acetate	(1) 250 "		"

Aqua Troll 500: Serial # 770462
PN: 005T0710

Continued from page

Read and Understood By

11-7-2024 11-8-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-7-2024 Page _____ of _____

Sample Location: Rm.3-182

Analytical Requirement

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	VOC	607	Pesticides	Herbicides	Dioxins/Furans	SVOC		Charge Number
											XGMD
241107 1353 A		3	A	X							
1354 A	FB	3		X							
1355 A		1			X						
1356 A		1				X					
1357 A		1					X				
1358 A		1						X			
1359 A		2							X	~~X~~	

Sample Location:

Analytical Requirement

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	PCB	Phenolics	metals	NO3/NO2	cyanide	sulfide		Charge Number
241107 1400 A		1	A	X							
1401 A		1			X						
1402 A		2				X					
1403 A		1					X				
1404 A		1						X			
1405 A		1							X		

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-7-2024 1510			11-8-24 0900

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

11/4/24

Robert Burrows & Craig Del Ferraro present. Weather is cloudy, cold and breezy. This well will be purged using a dedicated bladder pump. Samples will be collected using a teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G3 in use.

Calibrations
DO sensor - calibrated in 100% saturation.
Cond. sensor - " using 1413 us/cm std.
PH sensor - " " 4, 7, & 10 buffers.
Turb. sensor - " " 20 NTU std.

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
241104 0730C	VOA by 8260LL	ice / HCL	(3) 40ml vials	2774	ALS
——— 0731C	Low Level NDMA	ice	(1) 1L Amber	011990-1J	SRI

Parameters (time)	temp (°C)	cond (us/cm)	PH	ORP	DO	Turb (NTU's)	DTW (ft)
1) 241104 0900C	19.13	960.46	7.40	311.3	6.89	1.90	335.95
2) ——— 0903C	19.09	956.38	7.40	312.5	6.57	1.65	335.95
3) ——— 0906C	19.02	951.72	7.41	315.0	6.30	1.37	335.95

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241104 0910C	VOA by 8260LL	ice / HCL	(3) 40ml vials	2774	ALS
——— 0911C	" (FB)	"	"	"	"
——— 0912C	Low Level NDMA	ice	(1) 1L Amber	011990-1J	SRI
——— 0913C	" (FB)	"	"	"	"

Initial DTW: 335.30 ft. Total gallons purged: 1.5

Continued from page N/A

Read and Understood By

Craig Del Ferraro 11/4/24

Peter W Munde 11-5-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/4/24 Page 1 of 1

Sample Location: BLM-8-418

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Charge Number
2411040730C (TB)	3	A	✓		XGMD
0731C (TB)	1	A		✓	"
0910C	3	A	✓		"
0911C (FB)	3	A	✓		"
0912C	1	A		✓	"
0913C (FB)	1	A		✓	"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Dalton	11/4/24 / 1015 hrs.		[signature]	11-5-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Rocha & Dan Halvorsen present. Weather is Rainy and Cold. This well will be purged and sampled using a electrical bladder pump. Samples will be collected using new Teflon tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G1 in use.

Calibrations:

Do Sensor: In 100% saturated air.

pH Sensor: Using 4, 7, 10 Buffers

Conductivity: Using 1413 µs/cm STD.

Turbidity: Using a 10 NTU STD.

Parameters (Time)	Temp	Cond	Do	pH	ORP	Turb	DTW
241107 0930 A	19.07	1025	7.32	7.62	168	62.2	
—— 0932 A	19.08	1026	7.31	7.58	167	62.1	
—— 0934 A	19.08	1025	7.33	7.60	167	62.1	

Trip Blanks

Sample #	Analysis	Preserve	Container	Lot	LAB
241107 0710 A	VOA by 8260	Ice/HCl	(3) 40 ml Vial		AL

Samples

Sample #	Analysis	Preserve	Container	Lot	LAB
241107 0938 A	VOA by 8260	Ice/HCl	(3) 40 ml Vial		AL
—— 0939 A	" " (FB)	"	"		"
—— 0940 A	NDMA/NDMA Bromate by (10)	Ice	(1) 1L Amber		SR
—— 0941 A	Total Metals	Ice/HNO3	(2) 125 ml Poly		ALS
—— 0942 A	Anions/Alk	Ice	(2) 250 ml Poly		"
—— 0943 A	TDS	"	(1) "		"
—— 0944 A	Perchlorate	"	(1) 125 ml Poly		"
—— 0945 A	VOA/NO3	Ice/H2SO4	(1) 250 ml Poly		"

Continued from page

Read and Understood By

Signed

11-7-2024

Date

Signed

11-8-24

Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-7-2024 Page _____ of _____

Sample Location: BLM-17-493

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	VOA	607	mutls	Anions/DIX	TDS	Perchlorate		Charge Number
										XGMD
241107 0710 A TB	3	A	4							
0938 A	3		4							
0939 A FB	3		4							
0940 A	1			4						
0941 A	2				4					
0942 A	2					4				
0943 A	1						4			

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	Perchlorate	VOA 1UD3						Charge Number
241107 0944 A	1	A	4							
0945 A	1			4						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	11-7-2024 1100		[signature]	11-8-24 0900

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Tony Torrez present. The weather is clear & warm. This well will be purged & sampled with a Teflon Bladder pump. Samples collected from a Teflon discharge tube. Carboy G-2 Params Collected from A Aqua Tmp 500.

Calibrations

DO Sensor Cal'd. w/ 100% Saturation
Cond Sensor Cal'd w/ 1413 µs/cm
pH Sensor Cal'd w/ 4, 7, 10 Buffers.
Turb Meter # 8 Std 10.68 Rdg 5.74 Lot# 43295 Exp 11/24

~~Params~~ Samples

Sample #	Analysis	Preserv	Cont	Lab
24111414600A	8260 (L)	HCl	(3) 40mL VOAs	ALS
—— 1601A	" (FB)	"	"	"
—— 1602A	LL VOAs	HCl	(1) 1LT Amber	SNJ
—— 1603A	" (FB)	"	"	"

Params

Sample #	Temp	Cond	DO	ORP	pH	Turb
24111414 1355A	21.62	1,068.1	8.12	37.6	8.51	1.10
—— 1356A	21.77	1,081.1	8.15	40.8	8.50	1.01
—— 1357A	21.64	1,090.1	7.32	56.6	8.50	1.20

Continued from page

Read and Understood By

T-

11.14.24 Date

Signed

11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-14-24 Page 1 of 1

Sample Location: B/M-22-570

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number
										XGMD
241114 1400A	3	A	X							
— 1401A (FB)	3	|	X							
— 1402A	1	|		X						
— 1403A (FB)	1	|		X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
TDB	11-14-24/1500		[signature]	11-18-24 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

11/4/24

PROJECT BLM-24-565 WJI ENV-0053

Notebook No. D32 #134 (C) 57

Continued from page N/A

Robert Burrows & Craig Del Ferraro present. Weather is cloudy, cool, and windy. This well will be purged using a dedicated bladder pump. Samples will be collected using a teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Due to rapid drawdown, this well sampling event will be modified. Carboy G3 in use.

Calibrations

DO sensor - calibrated in 100% saturation.
Cond. sensor - " using 1413us/cm std.
PH sensor - " " 4, 7, & 10 buffers.
Turb. sensor - " " 20 NTU std.

Parameters (time)	temp (c)	cond (us/cm)	DO	ORP	PH	Turb (NTU's)	DTW (ft.)
1) 241104 1315C	19.95	991.52	4.74	152.7	10.52	2.02	331.84
2) ——— 1316C	19.82	1031.06	4.54	148.0	10.58	1.50	331.84
3) ——— 1317C	19.78	1054.46	4.27	143.3	10.63	1.26	331.84

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241104 1318C	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1319C	" (FB)	"	"	"	"
——— 1320C	607/Bromacil	ice	(1) 1L Amber	0119901J	SRI
——— 1321C	Low Level NDMA	"	"	"	"
——— 1322C	" (FB)	"	"	"	"

Initial DTW: 330.90ft. Total gallons purged: 1/2 gal.

Continued from page N/A

Read and Understood By

Craig Del Ferraro 11/4/24 B-45 Jesse Munck 11-5-24

Signed Date Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/4/24 Page 1 of 1

Sample Location: BLM-24-565

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	607	LLNDMA					Charge Number
241104 1318C	3	A	✓							XGMD
—— 1319C (FB)	3	A	✓							u
—— 1320C	1	A		✓						u
—— 1321C	1	A			✓					u
—— 1322C (FB)	1	A			✓					u

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelZenno	11/4/24 / 1400hrs.			11-5-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

R. Burrows & Tony Torrez present. The weather is clear & 40°C. This well will be purged & sampled using a Teflon bladder pump. Samples collected from a Teflon discharge tube. Panam's collected from an in-situ Aqua Troll 500. Carboy 6-2

Calibrations

Doseron - Cal'd in 100% saturation.
Cond Sensor Cal'd in 14.13 ms/cm std
pH Sensor cal'd with 4, 7, 10 buffers
Turb # 8 std 0.89 rdg 9.74 Lot # A3293 Exp. 11/24

Panam's

Sample #	Temp	ORP	pH	Cond	DO	Turb
24/11/14 0855A	22.71	155.2	7.24	998.26	6.87	0.45
" 0856A	22.68	155.1	7.28	998.28	6.87	0.51
" 0857A	22.70	156.3	7.25	998.26	6.83	0.45

Samples

Sample #	Analysis	Preserv	Cont	Lab
24/11/14 0900A	8260	HCl/HA	(3) 40ml VOAs	ALS
" 0901A	" (FB)	"	"	"
" 0902A	6007	HCl	(1) 1L Amber	SNL
" 0903A	" (FB)	"	"	"

Continued from page

Read and Understood By

T. D. — Signed — 11.14.24 — Date

Tom Mundt — Signed — 11-18-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11.14.24 Page 1 of 1

Sample Location: BLM-26-404

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	8260	607						Charge Number
										X6MA
24/1114 0900A	3	A	X							
0901A (FB)	3		X							
0902A	1			X						
0903 (FB)	1			X						

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. D	11.14.24 / 1100			11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Dan Halvorsen present. Weather is windy, Cloudy and Cold. This Zone will be purged and sampled using a FLUTe System. Samples will be Collected using a dedicated discharge hose. This Zone will be purged every 15 minutes with a minimum of 4 gallons purged. Bubbler set at 3 psi., stable at 8 psi. Sample pressure set at 252 psi., Purge pressure at 281 psi., First 350 ml will be discarded prior to Sampling. CarDay 61.

Parameters

Time = 241104/1150 B
pH = 10.33
Temp = 18.9° C
Cond = 961 us/cm
Turb = 1.07 ntu's
pHpre = 6.95-9.96
pHpost = 6.96-9.98

Meter ID

pH/Cond = 12
Turb = 8
" STD = 10.69
" RDG = 10.65
" Lot = A3293
" Exp = 11/24

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241104/1300B	VOC by 8260	Ice (HCl)	(3) 40 ml (VOA)		ACS
1301B	" " (FB)	"	"		"
1303B	NDMA LL	Ice	(1) 1L Amber		SRL
1304B	" " (FB)	"	"		"

IDW = 5 gal.

Continued from page

Read and Understood By

Signed _____ Date 11-4-2024

Signed _____ Date 11-6-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-4-2024 Page _____ of _____

Sample Location: BLM-32-543

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	Analytical Requirement: VOA4 LL						Charge Number
Pertinent Notes (if any)										XGMD
241104 1300 B	3	A	X							
— 1301 B FB	3	A	X							
— 1303 B	1	A		X						
— 1304 B FB	1	A		X						

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number
Pertinent Notes (if any)										

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MA	11-4-2024 1440		[signature]	11-5-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Dan Halvorsen present. Weather is windy, cloudy and cold. This zone will be purged and sampled using a FLUTE system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes with a minimum of 4 gallons purged. Bubbler set at 3 psi, stable at 8 psi. Purge pressure set at 281 psi, sample pressure at 252 psi. First 350 ml will be discarded prior to sampling. Cooler G1

parameters

time = 241104 1320 B
pH = 9.63
temp = 18.0 °C
cond = 946 us/cm
turb = 1.20 ntu's
Pre = 6.84-9.96
Post = 6.96-9.96

meter ID

pH/cond = 12
Turb = 8
DO = 10.69
ORP = 10.65
Lot = A3293
Exp = 11/24

SAMPLES

Date	Analysis	Preserve	Containers	Lot	Lab
241104 1325 B	VOCs by 8260	HCl/HCl	(3) 40 ml Vials		DLS
1326 B	" " (FB)	"	"		"
1327 B	NDMA LL	Ice	(1) 1L Amber		SRL
1328 B	" " (FB)	"	"		"

EDW = 5 psi.

Continued from page

Read and Understood By

Signed 11.4.2024 Date

Signed 11-5-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-4-2024 Page _____ of _____

Sample Location: BLM-32-571

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: VOC	Analytical Requirement: UDMA LL	Charge Number
241104 1325 B		3	A	4		XGMD
1326 B	FB	3		4		
1327 B		1			1	
1328 B	FB	1			1	

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-4-2024 1440			11-5-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Swabs & Dan Howarth present. Weather is windy, cloudy and cold. This zone will be purged and sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Bubbler set at 3 psi, stable at 8 psi. First 350 ml will be discarded prior to sampling. Carboy G1

Parameters

Time = 241104 1350 B
PH = 8.96
Temp = 18.0 °C
Cond = 930 us/cm
Turb = 0.98 ntu's
PH Pre = 4.96 - 9.94
PH Post = 6.95 - 9.96

Meter ID

PH/Cond = 12
Turb = 8
DO = 10.69
ORP = 10.65
Lot = A3293
Exp = 11/24

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241104 1406 B	VOCs by 8260	Iced/HCl	(3) 40 ml Vials		ALS
1407 B	" " (FB)	"	"		"
1408 B	NDMA 42	Iced	(1) 1L Amber		SRL
1425 B	" " (MS)	"	"		"
1426 B	" " (MSD)	"	"		"
1427 B	" " (FB)	"	"		"

IDW = 5 gal

Continued from page

Read and Understood By

Signed — Date 11-4-2024

Signed — Date 11-5-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-4-2024 Page _____ of _____

Sample Location: Blm-32-632

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: U06	Analytical Requirement: UDM04LL						Charge Number: XGMD
241104 1406 B	3	A	X							
1407 B FB	3		X							
1408 B	1			X						
1425 B MS	1			X						
1426 B MSD	1			X						
1427 B FB	1			X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-4-2024 1515			11-5-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

11/8/24

PROJECT BLM-36-350 WJI ENV-0020

Notebook No. D64#133(Y) 17

Continued from page N/A

Matt Garcia & Craig DelFerraro present. Weather is clear & cool. This zone will be sampled using 5 triple rinsed, stainless steel sample tubs. Gen in use. Probe #1539. Surface checks performed on probe prior to sampling. Carboy G3 in use.

30 Min. Equipment blanks

Sample	Analysis	Preservative	Container	Lot	Lab
241108 1055Y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS

Initial Parameters
Time - 241108 1300Y
PH - 8.02
Temp - 19.5°C
Cond - 1225 us/cm
Turb - 5.37 NTU's
pH pre - 7.10/10.12 (15.5°C)
pH post - 7.09/10.13
DTW - 563.81ft.
Atmos - 12.43psia

Final
Time - 241108 1425Y
PH - 7.92
Temp - 19.8°C
Cond - 1233 us/cm
Turb - 2.89 NTU's
pH pre - 7.08/10.11 (16.3°C)
pH post - 7.09/10.11
DTW - 563.83ft.
Atmos - 12.46psia
IDW - 1/2 gal.

Meter ID
pH/Cond - 15
Turb - 7
" std - 50.1 NTU
" rdg - 50.8 NTU
" Lot - A3293
" Exp - 11/30/2.

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241108 1335Y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
——— 1336Y	" (Dupl.)	"	"	"	"
——— 1337Y	607/Bromacil	ice	(1) 1L Amber	0133901I	SRI
——— 1400Y	" (Dupl.)	"	"	"	"

Runs	1)	2)	3)	4)
	12.59	12.62	12.63	12.60
	32.76	33.03	33.05	32.96
	32.78	32.98	33.08	32.98
	12.59	12.62	12.62	12.62

Continued from page N/A

Read and Understood By

Craig DelFerro — Signed — 11/8/24 — Date

B-55

Lori Lemke — Signed — 11-12-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/8/24 Page 1 of 1

Sample Location: BLM-36-350

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607						Charge Number
241108105Sy (EB)	3	A	✓							XGMD
—— 1335y	3	A	✓							"
—— 1336y (Dupl.)	3	A	✓							"
—— 1337y	1	A		✓						"
—— 1400y (Dupl.)	1	A		✓						"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Fiemo	11/8/24 / 1440hrs.			11-12-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & AL Montes present. Weather is clear & cool. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Gen in use. Probe #1539. Surface checks performed on Probe prior to Sampling

30 min E.Q. Blanks

Sample	Analysis	Preserv.	Container	Lot	Lab
241106093OX	8260	Ice/HCL	(3) 40 mL Vials	27691	ALS

Initial Parameters	Final
Time - 241106 1000X	241106 1335X
PH - 7.81	7.71
Temp - 21.5°C	21.2°C
Cond - 785 us/cm	777 us/cm
Turb - 1.14 NTU's	1.10 NTU's
PH pre - 7.03, 10.05 (12.1)	7.00, 10.03 (14.5°C)
PH post - " "	7.03, 10.05
DTW - 563.73 ft.	563.75 ft
ATMOS - 12.37 Psia	12.41 psia

Meter I.D
PH/Cond = 15
Turb = 7
" STD = 50.1 NTU's
" RDG = 50.3 NTU's
" LOT = A3293
" EXP = 11/30

Samples

Sample	Analysis	Preserv.	Container	Lot	Lab
241106 1030X	8260	Ice/HCL	(3) 40mL Vials	27509	ALS
1031X	6007	Ice	(1) 1L Amber	01339011	SRI
1330X	" (MS)	"	"	"	"

Runs	1)	2)	3)
	37.06	36.91	36.93
	100.43	100.17	100.21
	100.26	100.25	100.31
	37.01	36.79	36.87

Continued from page

Read and Understood By

Matt Garcia — Signed — 11/6/24 — Date

Tom Munck — Signed — 11-7-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/6/24 Page 1 of 1

Sample Location: BLM-36-C010

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 82600	607						Charge Number
241106009301 (EB)	3	A	X							X6MD
1030Y	3		X							
1031Y	1			X						
1330Y (MS)	1			X						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt	11/6/24 1500hrs			11-7-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & AL montes present. weather clear & cool. This zone will be Sampled using 5 triple rinsed, stainless steel sample Tubes. Gen. in use. Probe #1559. Surface checks performed on probe prior to sampling. Carboy - 63

30 min E.Q. Blanks

Sample	Analysis	Preserv.	Container	Lot	Lab
241107104 5Y	8260	Ice/HCL	(3) 40 mL vials	27591	ALS

Initial Parameters	Final
Time - 241107 1335Y	241107 1410Y
PH - 7.80	7.85
Temp - 19.6 °C	19.9 °C
Cond - 1016 us/cm	1022 us/cm
Turb - 3.21 NTUs	3.18 NTUs
PHpre - 7.03, 10.05 (12.8°C)	7.01, 10.03 (13.7°C)
PHpost - " "	7.01, 10.05
DTW - 563.80 ft	563.81 ft
ATMOS - 12.42 psia	12.42 psia

Meter I.D
PH/Cond = 15
" Turb = 7
" STD = 50.1 NTUs
" RDG = 50.3 NTUs
" LOT = A3293
" EXP = 11/30

Samples

Sample	Analysis	Preserv.	Container	Lot	Lab
241107 1400Y	8260	Ice/HCL	(3) 40mL vials	27591	AC
1401Y	607	Ice	(1) 1L Amber	0133901(	SR

Runs 1) 119.70 2) 119.73
177.18 177.20
177.11 177.16
119.68 119.75

Continued from page

Read and Understood By

Matt [signature] 11/7/24 Date

B-59

[signature] Signed 11-8-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/7/24 Page 1 of 1

Sample Location: BU.36.860

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement 8260	6007						Charge Number
241107094 5Y	3	A	x							XGMD
— (EB)	3	A	x							↓
— 0946Y	1	A		x						↓

Sample Location: BU.36.800

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement 8260	6007						Charge Number
241107 1400Y	3	A	x							XGMD
— 1045Y (EB)	3	A	x							↓
— 1401Y	1	A		x						↓

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt Gross	11/7/24 1500hrs		[signature]	11-8-24 / 0900

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & AL Montes Present. Weather is clear & cool. This zone wi be sampled using 5 triple rinsed, Stainless steel sample tubes. Gen i use. Probe #1539 surface checks performed on probe prior to sampling. Carboy - G3

30min E.Q Blanks

Sample	Analysis	Preserv.	Container	Lot	Lab
241106 1420Y	8260	Ice/HCL	(3) 40ML vials	27591	AL

Initial Parameters	Final	Meter I.D.
Time - 241106 1450Y	241107 0950Y	PH/cond = 15
PH - 7.44	7.55	Turb - 7
Temp - 23.8°C	9.2°C	" STD = 50.1
Cond - 950 us/cm	961 us/cm	" RDG = 50.3
Turb - 166 NTU's	22.8 NTU's	" Lot = A3293
PH pre - 7.03, 10.01 (17.2°C)	7.01, 10.03 4.8°C	" EXP = 11/30
PH post - " "	7.03, 10.03	
DTW -		
ATMOS - 1237		

Samples

Sample	Analysis	Preserv.	Container	Lot	Lab
241107 0945Y	8260	Ice/HCL	(3) 40ML vials	27591	AL
—— 0946Y	6007	Ice	(1) 1L Amber	01339011	SR

Runs 1) 145.66 2) 145.81
141.97 141.98
141.80 141.68
145.51 145.71

Continued from page

Read and Understood By

Craig DelZoppo 11/8/24 B-61 Jon W Munde 11-8-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/6/24 Page 1 of 1

Sample Location: BLM-36-8600

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260							Charge Number
241106142OX (EB)	3	A	X							XGMD

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt	11/6/24 1500hrs			11-7-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/7/24 Page 1 of 1

Sample Location: BW.36.860

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement 8260	6PPD						Charge Number
241107094 5Y	3	A	x							XGMD
— (EB)	3	A	x							↓
— 0946Y	1	A		x						↓

Sample Location: BW.36.800

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement 8260	6PPD						Charge Number
241107 1400Y	3	A	x							XGMD
— 1045Y (EB)	3	A	x							↓
— 1401Y	1	A		x						↓

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt Gonzales	11/7/24 1500hrs		[signature]	11-8-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Craig Del Ferraro present. Weather is clear & warm. This zone will be sampled using 3 triple rinsed, stainless steel sample tubes. Gen. in use. Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241113 1250Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
1251Y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

Initial Parameters
Time - 241113 1320Y
PH - 8.22
Temp - 22.1°C
Cond - 919 us/cm
Turb - 1.14 NTU's
pH pre - 7.04/10.03 (26.0°C)
pH post - 7.03/10.01
DTW - 406.38ft.
Atmos - 12.52 psia

Final
Time - 241113 1425Y
PH - 8.13
Temp - 22.6°C
Cond - 928 us/cm
Turb - 1.02 NTU's
pH pre - 7.04/10.04 (26.7°C)
pH post - 7.02/10.05
DTW - 406.46ft.
Atmos - 12.51 psia
IDW - 1/2 gals.

Meter ID
pH/Cond - 15
Turb - 7
" std - 50.1 NTU
" rdg - 51.0 NTU
" lot - A3293
" Exp - 11/30/24

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241113 1350Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
1351Y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

Runs	1)	2)	3)
	48.64	48.60	48.58
	39.41	39.27	39.25
	39.38	39.28	39.27
	48.64	48.61	48.57

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed — 11/13/24 — Date

Tom Mumbe — Signed — 11-14-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/13/24 Page 1 of 1

Sample Location: BLM-38-480

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Charge Number
241113 1250y (EB)	3	A	✓		XGMD
—— 1251y (EB)	1	A		✓	"
—— 1350y	3	A	✓		"
—— 1351y	1	A		✓	"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig Deltzund	11/13/24/1450hrs.	[signature]	11-14-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Craig Del Ferraro present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Chen. in use. Probe #4951. Surface checks performed on probe prior to sampling.

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
241113 0840Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0841Y	Low Level NDMA	ice	(1) 1L Amber	01199015J	SRI

30 Min Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241113 0935Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0936Y	Low Level NDMA	ice	(1) 1L Amber	01199015J	SRI

Initial Parameters
Time - 241113 1010Y
PH - 7.96
Temp - 20.6°C
Cond - 1043us/cm
Turb - 1.53 NTU's
pH pre - 7.11/10.14 (12.3°C)
pH post - 7.09/10.14
DTW - 406.30ft.
Atmos - 12.47 psia

Final
Time - 241113 1047Y
PH - 8.04
Temp - 20.9°C
Cond - 1037us/cm
Turb - 1.13 NTU's
pH pre - 7.08/10.11 (14.9°C)
pH post - 7.08/10.09
DTW - 406.38ft.
Atmos - 12.50 psia
IDW - 1/2 gal.

Meter ID
pH/Cond - 15
Turb - 7
" std - 50.1 NTU
" rdg - 51.0 NTU
" Lot - A3293
" Exp - 11/30/24

Buffers	Lot	Exp
7	CC779793	6/2
10	CC783411	8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241113 1045Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1046Y	Low Level NDMA	ice	(1) 1L Amber	01199015J	SRI

Runs 1) 109.76 2) 109.67
86.53 86.42
86.54 86.45
109.78 109.64

Continued from page N/A

Read and Understood By

Craig Del Ferraro 11/13/24 Date
B-66
Signed 11-14-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/13/24 Page 1 of 1

Sample Location: BLM-38-620

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Charge Number
241113084oy (TB)	3	A	✓		XGMD
0841y (TB)	1	A		✓	"
0935y (EB)	3	A	✓		"
0936y (EB	1	A		✓	"
1045y	3	A	✓		"
1046y	1	A		✓	"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig DeTorres	11/13/24/1115hrs.	[signature]	11-14-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT BW-4-330 ENV-0053

Notebook No. D32 #134(C)

Continued from page ____

Tony Torres & Dan Halvorsen present. Weather is cloudy and cool. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new Tygon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G1 in use.

Additions:

DO sensor = In 100% saturated air.

pH sensor = using 4, 7, 10 Buffers

Conductivity = using a 1413 uS/cm STD.

Turbidity = using a 10 NTU STD.

Initial DTW = 197.10 ft.

Final " = 197.31

#DW = 1 gal.

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb	DTW
24112709150	20.56	2530	0.24	11.94	-228	14.3	197.31
——— 0917 C	20.55	2526	0.23	11.91	-228	14.6	197.31
——— 0919 C	20.55	2525	0.24	11.93	-227	14.1	197.31

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241127 0925 C	VOA by 8260	Ice/HCl	(3) 40 ml Vial	2774	ALS
——— 0926 C	" " (FB)	"	"	"	"
——— 0927 C	NDMA/NDEA by 607	Ice	(1) 1L Amber	119901	SRL
——— 0928 C	SVOA by 8270D	"	(2) 500 ml Amber	N/A	ALS
——— 0929 C	Total metals	Ice/HNO3	(2) 125 ml Poly	"	"
——— 0930 C	Anions/DOC	Ice	(2) 250 ml Poly	"	"
——— 0931 C	TDS	"	(1) "	"	"
——— 0932 C	Perchlorate	"	(1) 125 ml Poly	"	"
——— 0933 C	NO2/NO3	Ice/H2SO4	(2) 250 ml Poly	"	"

Continued from page

Read and Understood By

11.27.2024 Date

B-68

Signed

12-2-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-27-2024 Page _____ of _____

Sample Location: BW-4-330

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	VOA	607	SVOA	metals	Anions/1/1K	TDS		Charge Number
										XGMD
241127 0925 C	3	A	X							
0926 C FB	3		X							
0927 C	1			X						
0928 C	2				X					
0929 C	2					X				
0930 C	2						X			
0931 C	1							X		

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Perchlorate	NO2/NO3						Charge Number
241127 0932 C	1	A	X							
0933 C	1	A		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11.27.2024 1100			12-2-24 0900 HRS

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Quiles & Dan Hathorsen present, Weather is partly cloudy and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a dedicated discharge hose. Water quality parameters will be monitored using an In-Situ AquaTroll 500. Cooler 61 in use.

Calibrations:

DO Sensor: In 100% Saturated air. Initial DTW: 236.40 ft.
PH Sensor = Using 4, 7, 10 Buffers 5 min " 236.71
Conductivity = Using a 1413 us/cm STD
Turbidity = Using a 10 NTU STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb	DTW (ft)
241109 1010 A	21.24	7.46	6.21	7.95	141	5.53	236.71
1013 A	21.23	7.61	6.20	7.91	142	5.48	236.71
1014 A	21.23	7.62	6.22	7.90	141	5.51	236.71

SAMPLES

Sample #	Analysis	Preservative	Container	Lot	Lab
241108 1016 A	VOC by 8260	Ice/HCl	(3) 40 ml VOA		ACS
1017 A	" " (Dup)	"	"		"
1018 A	" " (FB)	"	"		"
1019 A	DOM/DNN Bromacil by 600	Ice	(1) 1L Amber		SRL
1020 A	Total metals	Ice/HNO3	(2) 125 ml Poly		ACS
1021 A	" " (FB)	"	"		"
1022 A	Anions/Alk	Ice	(2) 250 ml Poly		"
1023 A	TDS	"	(1) "		"
1024 A	Perchlorate	"	(1) 125 ml Poly		"
1025 A	NO2/NO3	Ice/H2SO4	(1) 250 "		"

Continued from page

Read and Understood By

Signed 11-8-2024 Date B-70 Signed 11-12-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-8-2024 Page _____ of _____

Sample Location: BW-5-295

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	VOC	607	Nutrients	Anions/Alk				Charge Number
										XGMD
241108 1016 A	3	A	Y							
1017 A DUP	3		Y							
1018 A FB	3		Y							
1019 A	1			Y						
1020 A	2				Y					
1021 A	2				Y					
1022 A	2					X				

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	TDS	Perchlorate	200.8/200.7					Charge Number
241108 1023 A	1	A	Y							
1024 A	1			Y						
1025 A	1				X					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	11-5-2024 1115		[signature]	11-12-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Field Geologist & Jim Moore present. These samples will be purged and taken from a dedicated sampling port. Carboy "Plume front"

Parameters	meter ID	Buffers	Lot #	Exp
Time 24/11/19/1251	pH/cond-Plumefront	7	CC779793	9/25
pH 7.01	Turb-Plumefront	10	CC783411	8/25
Temp 24.5°C	"STD			
Cond 1214 µs/cm	"RDG			
Turb 0.12 NTU	"Lot # N/A			
pH pre 7.00-10.00 (23.6°C) Exp. 11/30/24				
pH post 7.02/10.02				

SAMPLES

Sample #	Analysis	Pres	Lot #	Lab	Cont
241119/1255	VOAs 8260	ICE; HCl	N/A	ALS	(3) 40 mL Vial
— 1256	"(FB)	"	"	"	"
— 1257	NO3/NO2/Br/Chloride/SO4	ICE	"	SWRI	(1) L amber
— 1258	Perchlorate	"	"	ALS	(1) 125 ml Poly

Continued from page N/A

Read and Understood By

Signed 19 Nov 2024 Date

Signed 11-19-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-19-24 Page 2 of 2

Sample Location: MPE-1

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
241119 1255	3	A	x						XGMD
1256 (MS)	3	A	x						
1257	1	A			x				

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE				Charge Number
241119 1255	1	A	x						XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	11-19-24 (1330)		11-20-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged and sampled from a dedicated sampling port. Carboy: Pine Front

Parameters	Meter ID	Buffers	LOT #	Exp
Time ~~0911~~ 0935	pH/Cond-Pine Front	7	CC779793	6/25
pH 6.78	Turb-Pine Front	10	CC783411	8/25
Temp 18.6 C	STD 9.66 NTU			
Cond 1031 us/cm	RDG 9.67 NTU			
Turb 1.44 NTU	LOT # N/A			
Phone 6.99-10.00 (16.2)	EXP - 1/30/24			
PH POST 7.02/10.02				

Sample #	Analysis	Samples Pres	LOT #	LAB CONT.
~~0911~~ 0935 ~~0950~~ 0940	VOA by 8260	ICE & HCl	N/A	ALS (3) 40mL vial
~~0950~~ 0945 ~~0950~~ 0941	" (FB)	"	"	"
~~0952~~ 0942	NDMA/DMN/Baby607	ICE	"	SWRI (1) 1L Amber
~~0953~~ 0943	Perchlorate	"	"	ALS (1) 125mL Poly

Continued from page N/A

Read and Understood By

19 Nov 2024

11-19-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-19-24 Page 1 of 1

Sample Location: MPE-9

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 Low Level NDMA	TOTAL METALS	ANIONS / ALK	TDS SM2540C	Charge Number
241119 0940	3	A		X						XGMD ..
— 0941 (FB)	5	A		X						..
— 0942	1	A				X				..

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 1,4 DIOXANE 8270	Charge Number
241119 0943	1	A		X			XGMD ..

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	11-19-24 1020	[signature]	11-20-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged and sampled using a dedicated sampling port, Carboy "Pine front"

Parameters	meter ID	Buffers	LOT#	Exp
Time 24NOV09:55	pH/cond - Pine front	7	CC779793	6/25
pH 7.05	Turb - Pine front	10	CC783411	8/25
Temp 19.4°C	" STD 9.66 NTU			
Cond 1066 us/cm	" RDG 9.69 NTU			
Turb 0.81 NTU	" LOT# N/A			
PH PRE 7.01-10.00 (16.9°C) Exp - 4/30/24				
PH POST - 7.02/10.02				

Samples

Sample #	Analysis	Pres	LOT#	LAB CONT
24NOV2000	VOA Suite	ICE; HCl	N/A	ALS (3) 40mL Vial
2001	" (FB)	"	"	" "
2002	NPMA1/DMP/Klebsiella	ICE	"	SWRI (1) Ct - nalgene
2003	Rich's Coke	"	"	ALS (1) 125 ml poly

Continued from page N/A

Read and Understood By

Signed — Date: 19 NOV 2024 — Signed — Date: 11-19-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-19-24

Sample Location: MPE-10

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/ BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS ANIONS/ALK	TDS SM2540C	Charge Number
241119/0000	3			X					XGMD
—/0001 (FB)	3			X					
—/0002	1					X			

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241119/0003	1	A		X							XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	11-19-24 (1020)	[signature]	11-20-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be parsed and taken from a dedicated sampling port. Carboy "Pine front"

Parameters	meter ID	Buffers	Lot #	Exp
Time 24111913072	pH/cond-Pinefront	7	CC 729793	6/25
pH 7.10	Turb-Pinefront	10	CC 783411	8/25
Temp 26.7C	"STD 9.66 NTU			
Cond 981uS/cm	"RDG 9.68 NTU			
Turb 0.64 NTU	"LOT# N/A			
PHPRE 7.01-10.01(24.9C) Exp. 11/30/24				
PHPOST-7.02/10.02				

Samples

Sample #	Analysis	Pres	Lot #	LAB	Cont
241119 1312	VOAby8260	ICE & HCl	N/A	ALS	(3) 40ml Vial
— 1313	" (FB)	"	"	"	"
— 1314	NDMA/DMA/Rby6007	ICE	"	SWRI	(1) Lt amber
— 1315	Perchlorate	"	"	ALS	(1) 125mL Poly

Continued from page N/A

Read and Understood By

Signed — Date: 19 Nov 2024

Signed — Date: 11-19-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-19-24 Page 1 of 1

Sample Location: NPE-11

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMW/BROMACIL low level NDMA	Total Metals Anions/Alk	TDS SM2540C	Charge Number
241119 1312	3	A	X					XGMD
1313 (FB)	3	A	X					"
1314	1	A			X			"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: Perchlorate 6850	NO2/NO3 353.2	SVOA-SIM 8270 1,4 Dioxane	Charge Number
241119 1315	1	A	X			XGMD
						"

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	11-19-24 1330		11-20-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Al Montes & Craig Del Ferraro present. Weather is clear & cool. This well will be purged using a dedicated bladder pump. Samples will be collected using a teflon discharge hose. DP-392 sampling event.

Total depth: 171.16ft.
Initial DTW: 136.88ft.
Start purge: 0900 hrs.
stop purge: 1025 hrs.
3 casing vols: 17 gals.
purge rate: 0.2 gpms
Total gallons purged: 17
final DTW: 137.54ft.

Meter ID		Buffers	Lot	Exp
pH/Cond	-12	7	CC779993	6/25
Turb	-8	10	CC783411	8/25
" std	-10.69 NTU's			
" rdg	-10.82 NTU's			
" lot	-A3293			
" Exp	-11/30/24			

Initial Parameters
Time - 241118 1000C
PH - 8.92
Temp - 20.3'C
Cond - 1546us/cm
Turb - 11.5 NTU's
pHpre - 7.13/10.17 (10.4'c)
pHpost - 7.13/10.16
DTW - 137.24ft.

Secondary
Time - 241118 1025C
PH - 8.94
Temp - 20.1'C
Cond - 1551us/cm
Turb - 8.62 NTU's
pHpre - 7.11/10.15 (12.4'c)
pHpost - 7.12/10.15
DTW - 137.37ft.

Final
Time - 241118 1030C
PH - 8.86
Temp - 19.8'C
Cond - 1547us/cm
Turb - 6.94 NTU's
pHpre - 7.09/10.14 (13
pHpost - 7.10/10.13

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241118 1026C	TDS by SM2540C	ice	(1) 250ml poly	070824-2ERG	ALS
——— 1027C	TKN	ice/H_2SO_4	"	052724-4EK1	"
——— 1028C	Chloride	ice	"	070824-2ERG	"
——— 1029C	NO_2/NO_3 by 353.2	ice/H_2SO_4	"	052724-4EK1	"

Continued from page N/A

Read and Understood By

Craig Del Ferraro 11/18/24 B-80 Jon Munk 11-18-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11·18·24 Page 1 of 1

Sample Location: NASA 4

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: TDS	TKN	CHLOR-DE	200.7				Charge Number
241118 1026C	1	A	x							X002
1027C	1	A		x						"
1028C	1	A			x					"
1029C	1	A				x				"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Dalton	11/18/24 / 1050hrs.		[signature]	11-19-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & Tony Torrez Present. This well will be purged & sampled using a dedicated bladder pump. Samples will be collected using a teflon discharge hose.

Total depth	= ~~131.66~~ 152.5a
Initial DTW	= 131.60
Start Purge	= 0915 hrs
Stop Purge	= 1030 hrs
3 casing vols	= 10 gals
Purge rate	= .17 GPM
Total gallons purged	=
Final DTW	= 131.51 ft

Meter	ID	Buffers	Lot	Exp
PH/cond-93		7	CC779793	6/2
Turb 20		10	CC783411	8/25

STD - 9.95
RDG - 9.90
Lot - A3893
Exp: 11/30/24

Initial Parameters	Secondary	Final
Time - 241120 1000C	Time - 241120 1030C	Time - 241120 1040C
PH - 7.19	PH - 7.21	PH - 7.20
Temp - 18.9 °C	Temp - 19.0	Temp - 19.1
Cond - 1735	Cond - 1733	Cond - 1729
Turb - 5.92 NTU's	Turb - 5.71	Turb - 5.77
PH pre - 7.01, 10.00	PH pre - 7.02, 10.01	PH pre - 7.00, 10.03
PH post - " "	PH post - 7.02, "	PH post - 7.05, 10.01
DTW - 131.50 ft	DTW - 131.55	DTW - 131.51 ft.

Samples

Sample	Analysis	Preserv.	Container	Lot	Lab
241120 1031C	8260	Ice/HCL	(3) 40 mL vials	2724	ACS
—— 1032C	" (FB)	"	"	"	"
—— 1033C	6007	Ice	(1) 1L Ambers	01199015	SRL
—— 1034C	" (Dupl)	"	"	"	"
—— 1035C	T. Metals	Ice/HNO_3	(2) 125mL Poly	03132232 AES	ACS
—— 1036C	" (Dupl)	"	"	"	"
—— 1037C	NO_2 NO_3	Ice/H_2SO_4	(1) 250mL Poly	052724446	"

Continued from page

Read and Understood By

Matt Garcia — Signed — 11/20/24 — Date

Tony Torrez — Signed — 11-21-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/20/24 Page 1 of 1

Sample Location: / Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	6007	T. Metals	NO2 NO3				Charge Number
241120 1031C	3	A	X							XGMD
1032C (FB)	3	↓	X							↓
1033C	1			X						
1034C (DUPL)	1			X						
1035C	2				X					
1036C (DUPL)	2				X					
1037C	1	↓				X				↓

Sample Location: / Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt Sanchez	11/20/24 1100hrs		[signature]	11-21-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Craig Del Ferraro present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen. in use. Probe #4951. Surface checks performed on probe prior to sampling.

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
241114 0900Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0901Y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241114 1000Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1001Y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

Initial Parameters
Time - 241114 1035Y
PH - 8.05
Temp - 20.5°C
Cond - 933 us/cm
Turb - 2.89 NTU's
pH pre - 7.12/10.10 (13.8°C)
pH post - 7.13/10.09
DTW - 485.64ft.
Atmos - 12.53 psia

Final
Time - 241114 1300Y
PH - 7.89
Temp - 20.9°C
Cond - 918 us/cm
Turb - 1.65 NTU's
pH pre - 7.06/10.04 (19.8°C)
pH post - 7.05/10.04
DTW - 485.73ft.
Atmos - 12.51 psia
IDW - ½ gal.

Meter ID
pH/cond - 15
Turb - 7
" Std - 50.1
" rdg - 51.6
" lot - A3293
" Exp - 11/30/24

Buffers	Lot	Exp
7	CC779793	6/2
10	CC783411	8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241114 1100Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1101Y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

Runs	1)	2)	3)
	49.36	49.31	49.27
	46.31	46.28	46.30
	46.33	46.30	46.32
	49.31	49.27	49.22

Continued from page N/A

Read and Understood By

Craig Del Ferraro 11/14/24 Date
Signed

Jon Munck 11-28-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/14/24 Page 1 of 1

Sample Location: PL-7-560

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260 LL	Analytical Requirement: LLNDMA	Charge Number
241114090OY (TB)	3	A	✓		XGMD
0901Y (TB)	1	A		✓	4
1000Y (EB)	3	A	✓		4
1001Y (EB)	1	A		✓	4
1100Y	3	A	✓		11
1101Y	1	A		✓	11

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Fiorio	11/14/24/1320hrs.		[signature]	11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & Marcus Avalos present. The weather is clear & cool This well will be purged & Sampled using a dedicated Bladder Pump. Samples collected from a teflon discharge tube. Water quality Parameters collected from a Insitu Aquatroll 500.
Packer 27 Psi Carboy G2 IDW -2 gal

Calibrations

DO - Calibrated in 100% Sat.
PH- " using 1413 us/cm STD.
Cond. " " 4, 7, 10 Buffers
Turb. " " 20 NTU STD.

Transducer Reading

7.55 psi
23.15°C
17.47 ft.

Parameters

Sample(Time)	Temp	Cond	DO	ORP	PH	Turb
241113 0940A	20.07	994.77	5.46	174	7.43	0.35
——— 0945A	19.98	996.51	5.53	174	7.46	0.40
——— 0950A	20.41	994.47	5.72	172	7.50	0.37

Samples

Sample	Analysis	Preserv.	Container	Lot	La
241113 1000A	8260	Ice/HCl	(3) 40 mL vials	2774	AL
——— 1001A	" (Dupl)	"	"	"	"
——— 1002A	" (FB)	"	"	"	"
——— 1003A	LL NDMA	Ice	(1) 1L Amber	0119015	SR
——— 1004A	" (FB)	"	"	"	"

Continued from page

Read and Understood By

Matt Garcia — Signed — 11/13/24 — Date

Tom Munck — Signed — 11-14-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/13/24 Page 1 of 1

Sample Location: P1.12.570

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	Analytical Requirement: LL NOMA	Charge Number
241113 1000A	3	A	X		XGMD
1001A (Dup)	3		X		
1002A (FB)	3		X		
1003A	1			X	
1004A (FB)	1			X	

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Matt	11/13/24 1106hrs		11-14-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & Marcus Avalos present. Weather is clear & cool. This well will be purged & sampled using a dedicated teflon bladder pump. Samples collected from a teflon discharge tube. Water Quality Parameters collected from a insitu Aquatroll 500. Carboy G2 IDW = 20gal

Packer 27 Psi

Calibrations

DO	- calibrated in	100% Sat.	
PH	- "	using 1413 us/cm STD	
Cond.	"	" 4,7,10 Buffers	
Turb-	"	" 20 NTU STD.	

Transducer Reading

7.55 psi
23.15 °C
17.47 ft.

Parameters

Sample (Time)	Temp	Cond	DO	ORP	PH	Turb.
241113 1350A	20.67	997.78	5.52	34.4	8.37	.37
—— 1355A	20.69	996.61	5.51	34.5	8.37	.50
—— 1400A	20.70	997.67	5.36	39.6	8.38	.41

Samples

Sample	Analysis	Preserv.	container	Lot	Lab
241113 1420A	8260	Ice/HCl	(3) 40 mL vials	2774	ALS
—— 1421A	" (FB)	"	"	"	"
—— 1422A	LL NDMA	Ice	(1) 1L Amber	0111990 15	SRL
—— 1423A	" (Dupl)	"	"	"	"
—— 1424A	" (FB)	"	"	"	"

Continued from page

Read and Understood By

Matt [signature] 11/13/24 Date

B-88

Signed [signature] 11-14-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/13/24 Page 1 of 1

Sample Location: P1.12.800

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: G2760	Analytical Requirement: LC NDMA						Charge Number
241113 1420A		3	A	X							XGMD
1421A	(FB)	3		X							
1422A		1			X						
1423A	(Dup)	1			X						
1424A	(FB)	1			X						

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	11/13/24 @ 1500		[signature]	11-14-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Al montes & Dan Halvorsen present. Weather is clear and warm. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a ~~dedicated~~ new Teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Canboy 61 in use.

Calibrations:

DO Sensor: In 100% saturated air.
PH Sensor: Using 4,7,10 Buffers
Conductivity: Using a 1413 us/cm STD.
Turbidity: Using a 10 NTU STD

Initial DTW = 477.92 ft.
Final " = 478.10
DTW = 1.5 gal

Parameters (Time)	Temp	Cond	DO	PH	ORP	TURB	DTW (ft
24111411400 C	20.92	994	7.37	7.71	258	1.51	478.22
1402 C	20.99	989	7.12	7.68	262	1.25	478.22
1404 C	21.10	987	7.06	7.64	263	1.13	478.22

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	LA
24111411410 C	VOA by 8260	HCl	(3) 40 ml Vials		AC
1411 C	" " (FB)	"	"		"
1412 C	NDMA, (RMN) Bromide	Ice	(1) 1L Amber		SR
1413 C	" " (FB)	"	"		"

Continued from page

Read and Understood By

Signed 11-14-2024 Date

Jon Mumbr 11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-14-2024 Page _____ of _____

Sample Location: ST-1-473

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 906	Analytical Requirement: 907						Charge Number
										XGMD
241114141410c	3	A	P							
1411 c FB	3		P							
1413 c	1			1						
1413 c FB	1			P						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-14-2024 1500			11-18-24 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

All monitor w/ Dan Halverson present. Weather is Clear and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new Teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy Gal in use.

Calibrations:
DO Sensor = In 100 % Saturated Air
pH Sensor = using 4, 7, 10 Buffers
Conductivity = using a 1413 us/cm STD
Turbidity = using a 10 NTU STD

Initial DTW = 476.35 ft.
Final " = 476.73
IDW = 1.5 gal.

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb	DTW (ft.)
241114 0900 C	19.84	1101	6.83	7.23	72.4	1.56	476.23
" 0902 C	19.85	1105	6.80	7.21	72.3	1.50	476.73
" 0904 C	19.85	1103	6.83	7.24	72.3	1.52	476.23

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241114 0915 C	VOA by 8260	Ice/HCl	(3) 40 ml Vial	2774	ALS
" 0916 C	" " (FB)	"	"	"	"
" 0917 C	NDMA/DMN Bromacil by 607	Ice	(1) 1L Amber	133601	SRL
" 0918 C	Total metals	Ice/HNO3	(2) 125 ml Poly	N/A	ALS
" 0919 C	Anions/AIK	Ice	(2) 250 ml Poly	"	"
" 0920 C	TDS	"	(1) "	"	"
" 0921 C	Perchlorate	"	(1) 125 ml Poly	"	"
" 0922 C	NO2/NO3	Ice/H2SO4	(1) 250 ml Poly	"	"

Blind Controls

Sample #	Analysis	Preserve	Container	Lot	Lab
241114 0923 C	VOA by 8260	Ice/HCl	(3) 40 ml Vial	24KD0319	ALS
" 0924 C	NDMA/DMN Bromacil by 607	Ice	(1) 1L Amber	" B	SRL
" 0925 C	Total metals	Ice/HNO3	(2) 125 ml Poly	" C	ALS

Continued from page

Read and Understood By

B-92

11-14-2024 Date

Signed

11-18-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-14-2024 Page _____ of _____

Sample Location: ST-1-541

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	LOI	Metals					Charge Number
										XGMD
241114 0915C	3	A	4							
0916C FB	3		4							
0923C BC	3		4							
0917C	1			4						
0924C BC	1			4						
0918C	2				X					
0925C BC	2				4					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: Anions/DBK	TDS	Perchlorate	NO3/NO2				Charge Number
241114 0919 C	2	A	4							
0920 C	1			4						
0921 C	1				4					
0922 C	1					4				

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-14-2024 1100			11-18-24 / 0910

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

MATT GARCIA & TONY TORREZ PRESENT. THE WEATHER IS CLEAR & COOL. THIS WELL WILL BE PURGED WITH A DEDICATED TEFLON BLADDER PUMP. SAMPLES COLLECTED FROM A TEFLON DISCHARGE TUBE. PARAMETERS COLLECTED FROM A INSITU AQUA TROLL 500 - CAL'D 6-

DTW 97.35

Calibrations

DO SENSOR cal'd in 100% SATURATION
COND SENSOR cal'd in 1413 µs/cm STANDARD.
pH SENSOR cal'd in 4, 7, 10 BUFFERS.
TURB # STD Reg LOT # ~~EXP~~ Exp.

Parm's

SAMPLE #	COND	TEMP	ORP	DO	pH	TURB
24118 1010A	1,032.6	19.74	257.3	7.06	7.36	3.60
—— 1011A	1,033.9	19.83	258.5	7.13	7.38	3.47
—— 1012A	1,032.4	19.87	258.4	7.14	7.40	3.50

Samples

SAMPLE #	ANALYSIS	PRESERV	CONT	LAB
24118 1015A	8260	ICE/HCl	(3) 40ml VIALS	ALS
—— 1016A	"	"	"	"
—— 1017A	607	ICE	(1) 1LT AMBER	SRL

Continued from page

Read and Understood By

Signed 11-18-24 Date B-94 Signature 11-19-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11.18-24 Page 1 of 1

Sample Location: ST.1.630

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	Analytical Requirement: 607						Charge Number
										X6MD
24/118 1015A	3	A	x							
1016A (FB)	3	A	x							
1017A	1	A		x						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. DE	11.18.24 / 1100		[signature]	11.19.24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & AL Montes Present. Weather is clear & cool. This well will be Purged & sampled using a dedicated bladder Pump. Samples will be collected using a new teflon discharge tube. water quality Parameters will be monitored using an In-Situ Aqua troll 500. Carboy-G1

Tube Vol. 1.8gal

Calibrations

DO - Cal. in 100% Sat.
Cond- " using 1413 us/cm STD
PH- " " 4,7,10 Buffers
Turb- " " 20 NTU STD

Parameters (Time)	Temp (oC)	cond (us/cm)	PH	ORP	DO (mg/L)	Turb (NTUs)	DTW (ft)
1) 241105 1345C	21.18	747.88	9.51	5.2	3.84	.41	463.10
2) —— 1350C	21.00	744.97	9.55	5.1	3.81	.39	463.10
3) —— 1355C	21.23	742.12	9.50	4.7	3.88	.42	463.10

Samples

Samples	Analysis	Preserv.	container	Lot	Lab
241105 1405C	8260 LL	Ice/HCL	(3) 40ML vials	2774	~~ALS~~
—— 1406C	" (FB)	"	"	"	"
—— 1407C	" (MS)	"	"	"	"
—— 1408C	LL NDMA	Ice	(1) 1L Amber	01199015	
—— 1409C	" (FB)	"	"	"	"

Continued from page

Read and Understood By

Signed 11/5/24 Date

B-96

11-6-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11.5.24 Page 1 of 1

Sample Location: ST. 4. 589

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LL8260	Analytical Requirement: LL2DMA						Charge Number
241105140 5C		3	A	X							XGMD
1406C	(FB)	3	A	X							
1407C	(MS)	3	A	X							
1408C		1	A		X						
1409C	(FB)	1	A		X						

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt	11.5.24 300			11-6-24 /0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & AL Montes present. Weather is clear & cold. This well will be purged & sampled using a dedicated bladder pump. Samples will be collected using a new teflon discharge tube. Water quality Parameters will be monitored using an In-Situ Aqua troll 500.
Carboy - G1 IDW - 1.8gal

Calibrations
DO - Cal. in 100% sat.
Cond - " using 1413 us/cm STD.
PH - " " 4.7.10 Buffers
Turb - " " 20 NTU STD

Trip Blanks

Sample	Analysis	Preserv.	Container	Lot	Lab
241105 0730C	LL VOMA	Ice	(1) 1L Amber	0119901J	SRI

Parameters (time)	Temp (°C)	cond (us/cm)	PH	ORP	DO	Turb (NTU's)	DTW (FT)
1) 241105 0945C	21.15	786.3C	8.22	1.8	1.72	1.44	462.45
2) —— 0950C	20.95	793.3C	8.20	2.1	1.69	1.37	"
3) —— 0955C	21.22	791.39	8.20	1.9	1.78	1.21	"

Samples

Sample	Analysis	Preserv	Container	Lot	Lab
241105 1000C	8260 LL	Ice/HCL	(3) 40 ML Vials	2774	
—— 1001C	" (FB)	"	"	"	"
—— 1002C	LL VOMA	Ice	(1) 1L Amber	0119901J	
—— 1003C	" (FB)	"	"	"	"

Continued from page

Read and Understood By

Matt Garcia 11/5/24 Signed Date

John Mundle 11-6-24 Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11.5.24 Page 1 of 1

Sample Location: ST.4.690

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL NDMA						Charge Number
241105 1000C	3	A	x							XGMD
1001C (FB)	3	A	x							
1002C	1	A		x						
1003C (FB)	1	A		x						
0730C (TB)	1	A		✓						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	11.5.24 11am		11-6-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Craig Del Ferraro present. Weather is clear & warm. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Gen. in use. Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy GB

Sample	Analysis	Preservative	Container	Lot	Lab
241112 1300Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1301Y	Low Level NDMA	ice	(1) 1L Amber	01199015	SRI

Initial Parameters
Time - 241112 1335Y
PH - 8.11
Temp - 22.8°C
Cond - 1003 us/cm
Turb - 1.19 NTU's
pH pre - 7.03/10.06 (23.9°C)
pH post - 7.01/10.04
DTW - 489.76ft. (top of well head)
Atmos - 12.47 psia

Final
Time - 241112 1440Y
PH - 8.14
Temp - 23.2°C
Cond - 995 us/cm
Turb - 1.00 NTU's
pH pre - 7.04/10.02 (25.6°C)
pH post - 7.01/10.03
DTW - 489.78ft.
Atmos - 12.46 psia
IDW - 1/2 gal.

Meter ID
pH/Cond - 15
Turb - 7
" Std - 50.1 NTU
" rdg - 51.4 NTU
" lot - A3293
" Exp - 11/30/24

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241112 1410Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1411Y	Low Level NDMA	ice	(1) 1L Amber	01199015	SRI

Runs

	1)	2)	3)
	15.10	15.06	15.03
	38.00	38.02	37.99
	38.01	38.00	38.02
	15.07	15.08	15.06

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed — 11/12/24 — Date

B-100

Tom Mundt — Signed — 11-13-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/12/24 Page 1 of 1

Sample Location: ST-5-485

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLVDMA	Charge Number
241112/1300Y (EB)	3	A	✓		XGMD
1301Y (EB)	1	A		✓	"
1410Y	3	A	✓		"
1411Y	1	A		✓	"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig Deltano	11/12/24/1500hrs.	[signature]	11-13-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Craig Del Ferraro present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes, Gen. in use. Probe #4951. Surface checks performed on probe prior to sampling

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
241112 0800y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0801y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

30 Min. Equipment Blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241112 0925y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0926y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

Initial Parameters
Time - 241112 1005y
PH - 7.88
Temp - 22.7°c
Cond - 819 us/cm
Turb - 1.03 NTU's
pH pre - 7.06/10.08 (17.4°c)
pH post - 7.04/10.08
DTW - 489.70 Ft. (top of well head)
Atmos - 12.50 psia

Final
Time - 241112 1032y
PH - 7.93
Temp - 22.9°c
Cond - 825 us/cm
Turb - 0.88 NTU's
pH pre - 7.05/10.06 (18.1°c)
pH post - 7.06/10.05
DTW - 489.76 Ft.
Atmos - 12.48 psia
IDW - 1/2 gal.

Meter ID
pH/Cond - 15
Turb - 7
" std - 50.1 NTU's
" rdg - 51.4 NTU's
" lot - A3293
" Exp - 11/30/24

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241112 1030y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1031y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

X Samples were very aerated.

Runs	1)	2)
	89.30	89.25
	111.53	111.53
	111.53	111.50
	89.28	89.27

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed — 11/12/24 — Date

B-102

Jen Mundle — Signed — 11-13-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/12/24 Page 1 of 1

Sample Location: ST-5-655

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: 8260 LL	Analytical Requirement: LLNDMA	Charge Number
241112 0800y (TB)		3	A	✓		XGMD
——— 0801y (TB)		1	A		✓	"
——— 0925y (EB)		3	A	✓		"
——— 0926y (EB)		1	A		✓	"
——— 1030y		3	A	✓		"
——— 1031y		1	A		✓	"

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig DelFerro	11/12/24 / 1115 hrs.	[signature]	11-13-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

11/20/24

PROJECT WB-1-200 WSI ENV-0020

Notebook No. D64 # 133(Y) 3

Continued from page

Marcus Avalos & Robert Burrows present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen in use. Probe #4951. Surface checks performed on probe prior to sampling.

Initial Parameters	Final
Time - 241120 1320Y	241120 1410Y
PH - 7.42	7.38
Temp - 19.5 °C	18.6 °C
Cond - 1150 uS/cm	1245 uS/cm
Turb - 1.26 NTU	1.37 NTU
PH pre - 7.03/10.04 (13.0°C)	7.02/10.02 (13.5°C)
PH post - 7.01/10.05	7.03/10.05
DTW - 191.80'	191.92'
Atmos - 12.48 psia	12.50 psia
	IDW - 0.25 gal

Meter ID

PH/Cond - #15
Turb - #7
= STD - 50.1 NTU
= RDG - 55.3 NTU
= Lot - AB293
= Exp - 11/30

Buffers	lot	Exp
7	CC779793	6/25
10	CC783411	8/25

SAMPLES

Sample #	Analysis	Preserve	Container	lot	lab
241120 1350Y	TDS by SM2540C	Ice	(1) 250 ml poly	0708242ERG	ALS
1351Y	TKN	H_2SO_4/Ice	=	0527244EKL	=
1352Y	Chloride	Ice	=	0708242ERG	=
1405Y	NO2/NO3 by 353.2	H_2SO_4/Ice	=	0527244EKL	=

Runs	1)	2)	3)
	20.06	20.15	20.17
	24.04	24.24	24.21
	24.10	24.23	24.24
	20.10	20.17	20.19

Continued from page

Read and Understood By

MA
Signed

11/20/24
Date

B-104

Lori Uhrmacher
Signed

11-21-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11/20/24 Page 1 of 1

Sample Location: WB.1.200

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: TOS	TKN	Chloride	NO2/NO3				Charge Number
241120135OY	1	A	X							X002
13514	1	"		X						"
13524	1	"			X					"
1405Y	1	"				X				"

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MA	11/20/24 @1430		[signature]	11-21-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

All monitors w Dan Helvorsen present. Weather is Clear and Cold. This Zone will be purged and Sampled using a FLUTe System. Samples will be Collected using a dedicated discharge hose. This 20 mL will be purged every 15 minutes and a minimum of 4 gallons purged prior to Sampling. Bubbler set at 3 psi and stable at 7 psi. Purge pressure set at 221 psi, Sample pressure at 199 psi. First 350 ml will be discarded. Carboy G1 in use.

Parameters (initial)	SAMPLE	meter ID
Time = 241112/1125B	241112/1200B	pH/Cond = 92
pH = 8.82	8.78	Turb = 20
Temp = 22.5°C	22.5	DO = 9.95
Cond = 1057 µS/cm	1051	ORP = 9.98
Turb = 2.11 NTUs	2.04	Low = A3293
DO Pre = 6.97-9.98	6.99-9.98	Exp = 11/24
DO Post = 6.95-9.97	6.98-9.98	

SAMPLES

SAMPLE #	Analysis	Preservative	Containers	Set	LAB
241112/1205B	VOCs by 8260 LL	Ice/HCl	(3) 40 ml VOA	2774	ALS
—/1206B	" " (FB)	"	"	"	"
—/1207B	VOCs LL	Ice	(1) 1L Amber	133601	SRL
—/1208B	" " (FB)	"	"	"	"
—/1248B	SVOCs by 8270D	"	(2) "	042224	ALS

IDW = 4 gal.

Continued from page

Read and Understood By

Signed — 11-12-2024 Date — Signed — 11-13-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-12-2024 Page _____ of _____

Sample Location: WW-4-419

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	NDMA LL	SVOC					Charge Number
										XGMD
241112205B	3	A	X							
1206B FB	3		X							
1207B	1			Y						
1208B FB	1			Y						
1248B	2				X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-12-2024 1410			11-13-24 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Al monitors a Dan Halloran present. Weather is clear and cold. This zone will be purged and sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Bubbler set at 3 psi, stable at 7 psi. Purge pressure set at 271 psi, sample pressure at 199 psi. First 350 ml will be discarded. Corbay GL in use.

Parameters (Initial)	Sample	meter ID
Time = 2411121140B	2411121320B	pH/Cond = 92
pH = 8.41	8.36	Temp = 20
Temp = 21.5 °C	21.5	STD = 9.95
Cond = 1007 us/cm	1010	RDG = 9.98
Turb = 1.90 NTU's	1.91	Lot = A3293
pH Pre = 6.98-9.99	6.99-9.98	Exp = 11/24
pH Post = 6.98-9.98	6.99-9.97	

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
2411121223B	VOCs by 8260 LL	Ice/HCl	(3) 40 ml VOA	27754	ALS
1224B	" " (FB)	"	"	"	"
1225B	NDMA LL	Ice	(1) 1L Amber	133604	SRL
1300B	" " (Dup)	"	"	"	"
1301B	" " (FB)	"	"	"	"
1335B	SVOCs by 8270D	"	(2) "	0423254	ALS

IDW = 4 gal.

Continued from page

Read and Understood By

Signed 11-12-2024 Date

Signed 11-13-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11.12.2024 Page _____ of _____

Sample Location: WW-4-589

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	VOA	NDMA L	SUOS					Charge Number
										XGMD
241112/1223 B	3	A	X							
1224 B FB	3		X							
1225 B	1			X						
1300 B	1			X						
1301 B FB	1			X						
1335 B	2				X					

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11.12.2024 1410			11-13-24 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

All monitors + Dan Halvorsen present. Weather is clear and cold. This zone will be purged and sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged. Bubbler set at 3 psi, stable at 7 psi. Purge pressure set at 221 psi, sample pressure at 199 psi. First 350 ml will be discarded. Carboy 61 in use.

Parameters (Initial)	Sample	Meter ID
Time = 241113//20 B	241113//57 B	pH/Cond = 92
pH = 7.24	7.21	Turb = 20
Temp = 19.8°C	19.8	STD = 9.95
Cond = 858 µS/cm	861	RDG = 9.97
Turb = 1.16 NTUs	1.13	Lot = A3293
pH Pre = 6.95-9.94	6.99-9.97	Exp = 11/24
pH Post = 6.96-9.97	6.99-9.97	

SAMPLES

Sample #	Analysis	Preserve	Containers	Lot	Lab
241113//58 B	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
——//159	" " (FB)	"	"	"	"
——//200 B	NDMA LL	Ice	(1) 1L Amber	133601	SRE
——//201 B	" " (FB)	"	"	"	"
——//320 B	Suva by 8270D	"	(2) "	042224	ALS

IDW = 4 gal.

Continued from page

Read and Understood By

11-13-2024

11-14-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-13-2024 Page _____ of _____

Sample Location: WW-4-848

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	VOC	NDMA LL	SVOC					Charge Number
										XGMD
241113 1158 B	3	A								
1159 B FB	3									
1200 B	1									
1201 B FB	1									
1320 B	2									

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	11-13-2024 1345			11-14-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

DI monitor & Dan Halvorsen present. Weather is clear and cold. This zone will be purged and sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged. Bubbler set at 3 psi, stable at 7 psi. Purge pressure set at 221 psi, sample pressure at 199 psi. First 350 ml will be discarded. Carboy 61 in use.

Parameters (Initial)		SAMPLE	
Time	= 241113/1130B	~~1228~~ 241113 1228B	
pH	= 7.65	7.62	
Temp	= 19.4°C	19.41	
Cond	= 1078 us/cm	1072	
Turb	= 2.42 ntu's	2.38	
pH Pre	= 6.96-9.95	6.96-9.97	
pH Post	= 6.98-9.96	6.98-9.97	

Meter ID	
pH/Cond	= 92
Turb	= 20
DO	= 9.95
ROS	= 9.97
Lot	= A3293
Exp	= 11/24

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	QAB
241113/1230B	VOA by 8260 LL	Ice/HCl	(3) 40ml Vial	27494	DLD
1231B	" " (FB)	"	"	"	"
1232B	UDMA LL	Ice	(1) 1L Amber	133601	SRF
1233B	" " (FB)	"	"	"	"
1300B	Subset by 8270D	"	(2) "	042224	DLD

IDW = 4 gal

Continued from page

Read and Understood By

Signed

11.13.2024

Date

B-112

Signed

11.14.24

Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 11-13-2024 Page _____ of _____

Sample Location: WW-4-948

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	VOC	VOA LL	SVOC					XCLID Charge Number
241131230 B	3	A	4							
1231 B FB	3	1	4							
1232 B	1			X						
1233 B FB	1			4						
1300 B	2				X					
					~~4~~					

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	11-13-2024 1345	[signature]	11-14-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig Del Ferraro present. Weather is clear & cool. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241204091oy	VOA by 8260	ice / HCl	(3) 40ml vials	2774	ALS

Initial Parameters
Time - 241204094oy
PH - 8.92
Temp - 21.1°c
Cond - 1035 us/cm
Turb - 5.85 NTU's
pH pre - 7.06/10.10 (17.4°c)
pH post - 7.05/10.11
DTW - 219.19ft.
Atmos - 12.42 psia

Final
Time - 241204105oy
PH - 8.84
Temp - 20.9°c
Cond - 1026 us/cm
Turb - 3.18 NTU's
pH pre - 7.04/10.07 (20.0°c)
pH post - 7.03/10.05
DTW - 219.21ft.
Atmos - 12.41 psia
IDW - 1/2 gal.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8
" rdg - 48.0
" lot - A3293
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/6
10	CC783411	8/6

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241204100oy	VOA by 8260	ice / HCl	(3) 40ml vials	2774	ALS
1001y	" (Dupl.)	"	"	"	"
1002y	607/Bromacil	ice	(1) 1L Amber	011990IJ	SRI
1025y	Total Metals	ice / HNO_3	(2) 125ml poly's	N/A	ALS

Runs

1)	2)	3)	4)
12.50	12.50	12.49	12.51
23.71	23.73	23.70	23.69
23.71	23.69	23.72	23.72
12.51	12.50	12.50	12.51

Continued from page N/A

Read and Understood By

Craig Del Ferro 12/4/24 Tom Munds 12-5-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/4/24 Page 1 of 1

Sample Location: 200-G-175

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Metals					Charge Number
241204091oy (EB)		3	A	✓							XGMD
1000y		3	A	✓							"
1001y (Dupl.)		3	A	✓							"
1002y		1	A		✓						"
1025y		2	A			✓					"

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Fiume	12/4/24/1100hrs.		[signature]	12-5-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig Del Ferraro present. Weather is clear, cool, & windy. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241203130Oy	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS

Initial Parameters
Time - 241203133Sy
PH - 8.95
Temp - 20.3°C
Cond - 1211 us/cm
Turb - 1.78 NTU's
pHpre - 7.06/10.10 (18.5°C)
pHpost - 7.06/10.11
DTW - 219.11ft
Atmos - 12.39 psia

Final
Time - 241203144Oy
PH - 8.99
Temp - 20.2°C
Cond - 1221 us/cm
Turb - 1.54 NTU's
pHpre - 7.08/10.09 (18.9°C)
pHpost - 7.05/10.08
DTW - 219.19Ft.
Atmos - 12.40 psia
IDW - ½ gal.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8 NTU
" rdg - 48.1 NTU
" lot - A3293
" Exp - 12/31/24

Buffers Lot Ex
7 CC779793 6/25
10 CC783411 8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241203141Oy	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
——— 1411y	607/Bromacil	ice	(1) 1L Amber	0119901J	SRI
——— 1445y	Total Metals	ice/HNO3	(2) 125ml polys	N/A	ALS

Runs
1) 17.44 / 43.30 / 43.26 / 17.38
2) 17.39 / 43.29 / 43.29 / 17.41
3) 17.38 / 43.24 / 43.22 / 17.38

Continued from page N/A

Read and Understood By

Craig Del Ferro 12/3/24 Signed Date

Peri W Munch 12-4-24 Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/3/24 Page 1 of 1

Sample Location: 200-G-220

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Metals				Charge Number
241203 1300y (EB)	3	A	✓						XGMD
1410y	3	A	✓						"
1411y	1	A		✓					"
1445y	2	A			✓				"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement						Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig Dettmer	12/3/24 / 1520hrs.	[signature]	12-4-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig DelFerraro present. Weather is clear, cool, & windy. This zone will be sampled using 5 (steam cleaned) and triple rinsed, stainless steel sample tubes. Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241203 0920Y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
——— 0921Y	Total Metals	ice/HNO_3	(2) 125ml polys	N/A	"

Initial Parameters
Time - 241203 0950Y
PH - 8.86
Temp - 20.3°C
Cond - 1555 us/cm
Turb - 1.09 NTU's
pHpre - 7.10/10.13 (15.4°C)
pHpost - 7.08/10.13
DTW - 219.03 Ft.
Atmos - 12.39 psia

Final
Time - 241203 1049Y
PH - 8.93
Temp - 20.7°C
Cond - 1559 us/cm
Turb - 1.03 NTU's
pHpre - 7.09/10.11 (16.7°C)
pHpost - 7.07/10.12
DTW - 219.11 Ft.
Atmos - 12.41 psia
IDW - ½ gal.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8 NTU's
" rdg - 48.1 NTU's
" Lot - A3093
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241203 1015Y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
——— 1016Y	607/Bromacil	ice	(1) 1L Amber	011990IJ	SPI
——— 1017Y	Total Metals	ice/HNO_3	(2) 125ml polys	N/A	ALS
——— 1045Y	Anions/ALK.	ice	(2) 250ml polys	070824-2ERG	"
——— 1046Y	TDS by SM2540C	"	(1) 250ml poly	"	"
——— 1047Y	Perchlorate by 6850	"	(1) 125ml poly	081224-2ERD	"
——— 1048Y	NO_2/NO_3 by 353.2	ice/H_2SO_4	(1) 250ml poly	093024-4EKI	"

Runs	1)	2)	3)
	69.66	69.65	69.65
	122.23	122.15	122.07
	122.26	122.18	122.09
	69.70	69.67	69.69

Continued from page N/A

Read and Understood By

Craig DelFerro 12/3/24 Date
B-118
Signed Tom Munck 12-4-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/3/24 Page 1 of 1

Sample Location: 200-G-340

Sample Number	# of Containers	Sample Matrix*	8260	607	Total Metals	Anions/Alk.	TDS			Charge Number
Pertinent Notes (if any)			Analytical Requirement							
241203092oy (EB)	3	A	✓							XGMD
0921y (EB)	2	A			✓					"
1015y	3	A	✓							"
1016y	1	A		✓						"
1017y	2	A			✓					"
1045y	2	A				✓				"
1046y	1	A					✓			"

Sample Location: 200-G-340

Sample Number	# of Containers	Sample Matrix*	Perchlorate	NO2/NO3						Charge Number
Pertinent Notes (if any)			Analytical Requirement							
241203104 7y	1	A	✓							XGMD
1048y	1	A		✓						"

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Frend	12/3/24 / 1110hrs.			12-4-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig Del Ferraro present. Weather is clear & warm. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Probe #495 Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241202 1345y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS

Initial Parameters
Time - 241202 1405y
PH - 8.90
Temp - 22.4°C
Cond - 2.04 ms/cm
Turb - 0.69 NTU's
pHpre - 7.02/10.04 (27.0°C)
pHpost - 7.03/10.04
DTW - 218.89ft.
Atmos - 12.38psia

Final
Time - 241202 1455y
PH - 8.80
Temp - 22.3°C
Cond - 2.03 ms/cm
Turb - 0.60 NTU's
pHpre - 7.05/10.03 (25.7°C)
pHpost - 7.04/10.02
DTW - 219.03ft.
Atmos - 12.38psia
IDW - 1/2 gal.

Meter ID
pH/cond - 12
Turb - 7
" Std - 48.8 NTU
" rdg - 48.6 NTU
" lot - A3293
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/2
10	CC783411	8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241202 1425y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
——— 1426y	607/Bromacil	ice	(1) 1L Amber	0119901J	SRI
——— 1427y	Total Metals	ice/HNO_3	(2) 125ml polys	N/A	ALS

Runs	1)	2)	3)
	104.38	104.48	104.46
	186.25	186.26	186.25
	186.24	186.23	186.24
	104.43	104.47	104.50

Continued from page N/A

Read and Understood By

Craig Del Ferraro 12/2/24 B-120 Peter Mundt 12-3-24
Signed Date Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/2/24 Page 1 of 1

Sample Location: 200-G-420

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Metals					Charge Number
241202 1345y (EB)	3	A	✓							XGMD
1425y	3	A	✓							"
1426y	1	A		✓						"
1427y	2	A			✓					"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Dell Fund	12/2/24 / 1510hrs.		[signature]	12-3-24 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig DelFerraro present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen. 00 Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241202095oy	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS

Initial Parameters
Time - 241202 1015y
PH - 9.56
Temp - 22.2°c
Cond - 2.04 ms/cm
Turb - 1.10 NTU's
pHpre - 7.08/10.06 (19.8°c)
pHpost - 7.09/10.05
DTW - 218.80 ft.
Atmos - 12.37 psia

Final
Time - 241202 1055y
PH - 9.41
Temp - 22.8°c
Cond - 2.06 ms/cm
Turb - 0.90 NTU's
pHpre - 7.04/10.01 (22.2°c)
pHpost - 7.04/10.02
DTW - 218.89 ft.
Atmos - 12.40 psia
IDW - ½ gal.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8 NTU's
" rdg - 48.6 NTU's
" lot - A3293
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241202 1035y	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
—— 1036y	607/Bromacil	ice	(1) 1L Amber 011990IJ		SRI
—— 1037y	Total Metals	ice/HNO_3	(2) 125ml poly's	N/A	ALS

*Heavy construction work took place within the vicinity of the sampling area. Diesel fuel exhaust was detected on several occasions.

Runs	1)	2)	3)
	136.70	136.78	136.84
	218.60	218.62	218.65
	218.57	218.58	218.62
	136.79	136.82	136.80

Continued from page

Read and Understood By

Craig DelFerraro — Signed — 12/2/24 — Date

B-122

Tim Kondy — Signed — 12-3-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/2/24 Page 1 of 1

Sample Location: 200-G-495

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Metals					Charge Number
241202095oy (EB)	3	A	✓							XGMD
1035y	3	A	✓							u
1036y	1	A		✓						u
1037y	2	A			✓					u

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Fierro	12/2/24 / 1115hrs.			12-3-24 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Dan Halvorsen present. Weather is clear and very cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a dedicated discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G1 in use.

Calibrations:

Initial DTW = 128.70 ft.
Final " = 128.78
IDW = 1/2 gal

DO Sensor: In 100% saturated air
PH Sensor = using 4, 7, 10 Buffers
Conductivity: using a 1413 us/cm STD.
Turbidity: using a 10 NTU STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb
24/12/11/1000 c	19.21	1264	5.42	7.21	195	1.80
" 1102 c	19.20	1262	5.40	7.18	193	1.58
" 1104 c	19.21	1264	5.42	7.22	193	1.18

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	LAB
24/12/1110 c	VOCs by 8260	Ice/HCl	(3) 40 ml Vial	2774	ALS
" 1111 c	" " (Dup)	"	"	"	"
" 1112 c	" " (FB)	"	"	"	"
" 1113 c	NDMA/NDMA Bromacil by 607	Ice	(1) 1L Amber	1R901	SRI
" 1114 c	" " (Dup)	"	"	"	"
" 1115 c	Total metals	Ice/HNO3	(2) 125 ml Poly		ALS
" 1116 c	" " (Dup)	"	"		"

Continued from page

Read and Understood By

12-11-2024
Date

12-12-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-11-2024 Page _____ of _____

Sample Location: 400-GV-125

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 506	507	Metals					Charge Number
										HWMU
241211110c	3	G	X							
1111c DUP	3		X							
1112c FB	3		X							
1113c	1			X						
1114c DUP	1			X						
1115c	2				X					
1116c DUP	2				X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12-11-2024 1530		12-12-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Dan Halvorsen present weather is Clear and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a dedicated discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy Grab in use.

Calibrations:

Initial DTW = 144.35 ft
Final " = 144.68
Flow = 1/2 gal.

DO Sensor: In 100 % saturated air.
PH Sensor: using 4, 7, 10 Buffers
Conductivity: using 1413 us/cm STD.
Turbidity: using a 10 Ntu STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb
24/12/1230 c	18.23	2.18	7.60	7.24	190	3.99
1232 c	18.24	2.23	7.57	7.19	188	3.29
1233 c	18.24	2.19	7.59	7.21	188	3.19

SAMPLES

Sample #	Analysis	Preserve	Container	LOT	LAB
24/12/1/1236 c	VOA by 8260	Ice/HCl	(3) 40 ml Vial	2774	ALS
1237 c	" " (FB)	"	"	"	"
1238 c	NDMA/DMN Bromacil by 607	Ice	(1) 1L Amber	119901	SRL
1239 c	Total metals	Ice/HNO3	(2) 125 ml Poly	N/A	ALS

Continued from page

Read and Understood By

Signed 12.11.2024 Date

12-12-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-11-2024 Page _____ of _____

Sample Location: 400-JV-150

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: U09	607	mg/ls					Charge Number
241211236c	3	A	X							HWMU
1237c FD	3	1	X							
1238c	1	1		X						
1239c	2	1			X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	12.11.2024 1330	[signature]	12-12-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Dan Halvorsen present. Weather is clear and very cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a calibrated discharge hose. Water quality Parameters will be monitored using an In-Situ Aqua Troll 500. Cable #1 in use.

Calibrations:

Do Sensor: In 100% Saturated air.
PH Sensor: Using 4, 7, 10 Buffers
Conductivity: Using a 1413 uS/cm STD.
Turbidity: Using a 10 NTU STD.

Initial DTW: 127.32 ft
Final " = 127.61
IDW: .5 gal

Parameters (Time)	Temp	Cond	Do	PH	ORP	Turb
24/12/11 0930 c	18.74	1161	1.45	7.20	184	2.06
0932 c	18.73	1159	1.43	7.17	188	1.88
0933 c	18.73	1161	1.45	7.18	188	1.60

SAMPLES

Sample #	Analysis	Preserve	Container	L.O.T	LAB
24/12/11 0935 c	VOA by 8260	Iced (HCl)	(3) 40 ml Vial	27754	DLS
0936 c	" " (Dup)	"	"	"	"
0937 c	" " (FB)	"	"	"	"
0938 c	Bromacil by 607 NDMA/DMP	Ice	(1) 1L Amber	119901	SRL
0939 c	" " (Dup)	"	"	"	"
0940 c	Total metals	Iced/HNO3	(2) 125 ml Poly	27754	DLS
0941 c	" " (Dup)	"	"	"	"

Trip Blanks

Sample #	Analysis	Preserve	Container	L.O.T	LAB
24/12/11 0730 c	VOA by 8260	Iced (HCl)	(3) 40 ml Vial	27754	DLS

Continued from page

Read and Understood By

Signed 12-11-2024 Date

Signed 12-12-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-11-2024 Page _____ of _____

Sample Location: 403-FV-131

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA	607	Methods					Charge Number
241211 0730 c TB	3	A	X							HWMU
0935 c	3		X							
0936 c Dup	3		X							
0937 c FB	3		X							
0938 c	1			X						
0939 c Dup	1			X						
0940 c	2				X					

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: Methods							Charge Number
241211 0941 c Dup	2	A								HWMU

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	12-11-2024 1530		[signature]	12-12-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTES & Tony Torres PRESENT. THE WEATHER IS HAZY & cool. THIS WELL will be purged & SAMPLED using A DED. CATED TEFLON bladder pump. PARAM's will be collected from AN IN SITU AquaTroll 500. Conbay 6.2

CALIBRATIONS
DO SENSOR CAL'd IN 100% SATURATION
COND SENSOR CAL'd IN 1413 STANDARD.
PH SENSOR CAL'd IN 4, 10, 7 BUFFERS
TURB # SENSOR CAL'd IN 20NTU

PARAM's

SAMPLE #	TEMP	DO	ORP	COND	PH	~~TURB~~
24121134SA	20.53	4.98	151.8	372.84	9.09	0.50
—— 1346A	20.54	4.99	152.0	372.91	9.08	0.575
—— 1347 #	20.84	5.00	152.3	372.80	9.09	0.475

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONT	LAB
24121135DA	8260	ICE/HCl	(3) 40mL VIALS	ALS
—— 1351A	" (FB)	"	"	"
—— 1352A	(EDB)	ICE	(1) 1LT AMBER	SRL
—— 1353A	TOTAL METALS	ICE/HNO3	(2) 125ml POLY	ALS

Continued from page

Read and Understood By

Signed 12-11-24 Date B-130 Signed 12-12-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-11-24 Page 1 of 1

Sample Location: 400-IV-123

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8760	607	TO-15 Chemicals					Charge Number
										H/WMO XGMO
24121 1350A	3	A	X							
1351A	3		X							
1352A	1			X						
1353A	1				X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. D	12-11-24/1500			12-12-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTES & TONY TORRES PRESENT THE WEATHER IS CLEAR & COOL. THIS WELL WILL BE PURGED & SAMPLED USING A TEFLON BLADDER PUMP. PARAM'S COLLECTED FROM AN AQUA TROLL 500. CANBOY G-2

CALIBRATIONS
DO SENSOR CAL'D IN 100% SATURATED
COND SENSOR CAL'D IN 1413 µS/cm STANDARD.
TURB SENSOR CAL'D IN 20 NTU's
pH SENSOR CAL'D IN 4, 7 10 BUFFERS.

PARAM's

SAMPLE #	TEMP	ORP	pH	COND	DO	TURB
241211 1025A	20.31	158.4	7.42	2,049.5	2.21	0.85
1026A	20.29	158.7	7.40	2,048.7	2.20	0.43
1027A	20.32	159.1	7.41	2,048.9	2.01	0.56

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONT	LAB
241211 1030A	8260	ICE/HCl	(3) 40ml VIALS	ALS
1031A	" (F.B)	"	"	"
1032A	1600	ICE	(1) 1LAMBER	SNL
1033A	TOTAL METALS	ICE/HNO_3	(2) 125ml POLY	ALS

Continued from page

Read and Understood By

12-11-24 12-11-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-11-24 Page 1 of 1

Sample Location: 400-HW-147

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	6007	Total Metals								
Pertinent Notes (if any)													
241211 1030A	3	A	X										
1031A	3		X										
1032A	2			X									
1033A	1				X								

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	12-11-24 / 1100	[signature]	12-12-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (03/09)

AL MONTES & TONY TORREZ PRESENT. THE WEATHER IS CLEAR & COLD. THIS WELL WILL BE PURGED & SAMPLED USING A DEDICATED TEFLON BLADDER PUMP. PARAMETERS COLLECTED FROM AN AQUA TROLL 500. CAMBOY 6-2

CALIBRATIONS
DO SENSOR CAL'D IN 100% SATURATION
COND SENSOR CAL'D IN 1413 µs/cm STANDARD
pH SENSOR CAL'D IN 4, 7, 10 BUFFERS
TURB SENSOR CAL'D IN 20 NTU STANDARD

PARAM'S

SAMPLE#	TEMP	COND	TURB	DO	ORP	pH
24121109404	18.76°C	1,299.1	0.43	6.42	226.2	7.01
—— 0941A	18.48°C	1,301.0	0.76	6.32	227.3	7.01
—— 0942A	18.30°C	1,310.8	0.80	6.23	226.4	7.01

SAMPLES

SAMPLE#	ANALYSIS	PRESERV	CONT	LAB
24121109454	8260	ICE/HCl	(3) 40ml VIALS	ALS
—— 0946A	" (FB)	"	"	"
—— 0947A	6007	ICE	(1) 1LT Amber	SNJ
—— 0948A	TOTAL METALS	ICE/HNO3	(2) 125ml poly	ALS

Continued from page

Read and Understood By

Signed 12/11/24 Date

Signed 12-11-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.11.24 Page 1 of 1

Sample Location: 400.EV.131

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Metals
241211 0945 A	3	A	x		
— 0946 A (FB)	3	A	x		
— 0947 A	1	A		x	
— 0948 A	2	A			x
—					

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12.11.24 11am		12-12-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (03/09)

Tim Kondy & Craig Del Ferraro present. Weather is clear & cool. This well will be bailed until dry (not enough volume in well column to use a Bennet pump). After well recovers, samples will be collected using a teflon bailer. Carboy G3 in use.

Total depth - 152ft. (bgs)
Initial DTW - 150.25ft.
start purge - 0850hrs
stop purge - 0910 hrs.
Total gallons purged - 3 gals. (bailed)
Final DTW - 151.79ft.

*3 casing volumes = 3 gals.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8 NTU's
" rdg - 47.6 NTU's
" lot - A3293
" Exp - 12/31/24

Buffers Lot Exp
7 CC779793 6/2
10 CC783411 8/2

Very high Turbidity

Initial Parameters
Time - 241209 0955B
PH - 7.85
Temp - 18.9°C
Cond - 1501 us/cm
Turb - 185.0 NTU's
pH pre - 7.10/10.08 (16.0°C)
pH post - 7.12/10.07
DTW - 151.60ft.

Final
Time - 241209 1009B
PH - 7.96
Temp - 18.6°C
Cond - 1512 us/cm
Turb - 156.4 NTU's
pH pre - 7.08/10.07 (18.4°C)
pH post - 7.09/10.06
~~DTW~~ ——— CD

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241209 1000B	VOA by 8260	ice/HCL	(3) 40ml vials	2774	ALS
——— 1001B	" (FB)	"	"	"	"
——— 1002B	607/Bromacil	ice	(1) 1L Amber	0119901J	SRI
——— 1003B	SVOA by 8270D	"	(2) 500ml ambers	10112I-1BME	ALS
——— 1004B	Total Metals	ice/HNO_3	(2) 125ml poly's	N/A	"
——— 1005B	Anions/Alk.	ice	(2) 250ml poly's	052024-2ERG	"
——— 1006B	TDS by SM2540C	"	(1) 250ml poly	070824-2ERG	"
——— 1007B	Perchlorate by 6850	"	(1) 125ml poly	081224-2ERD	"
——— 1008B	NO_2/NO_3 by 353.2	ice/H_2SO_4	(1) 250ml poly	050824-4ERI	"

Continued from page N/A

Read and Understood By

Craig Del Ferraro 12/9/24
Signed Date

Jon Munch 12-9-24
Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/9/24 Page 1 of 1

Sample Location: 600A-001-GW

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	8260	607	SVOA	Total Metals	Anions/Alk.	TDS		Charge Number
241209 1000B		3	A	✓							XGMD
—— 1001B (FB)		3	A	✓							"
—— 1002B		1	A		✓						"
—— 1003B		2	A			✓					"
—— 1004B		2	A				✓				"
—— 1005B		2	A					✓			"
—— 1006B		1	A						✓		"

Sample Location: 600A-001-GW

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Perchlorate	NO2/NO3						Charge Number
241209 1007B		1	A	✓							XGMD
—— 1008B		1	A		✓						"

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Terro	12/9/24 / 1045hrs.		[signature]	12-10-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Dan Halvorsen present. Weather is clear and cold. This well will be purged using a Bennett pump. Samples will be collected using a PFAS free bailer.

Initial DTW = 174.00 ft.
Total DEPTH = 183.00 ft.
Start Purge = 1015 hrs.
Top Purge = 1032 hrs.
3 Casing Volumes = 17.68 gal.
Gallons per minute = 1 gpm

meter cal
PH/COND = 15
TURB = 8
STD = 9.15
ORP = 9.21
LOT = A3293
EXP = 12/24

Initial Parameters	Secondary	Final
241210 = 1313 c	241210/1320c	241210/1350c
PH = 7.61	7.58	7.62
TEMP = 19.3	19.4	19.3
COND = 1204	1209	1211
TURB = 1.23	1.18	1.21
ORP Pre = 6.94-9.95	6.94-9.95	6.95-9.97
ORP Post = 6.95-9.99	6.95-9.96	6.97-9.96

SAMPLES

Sample	Analysis	Preserv.	Container	Lot	Lab
241210/1325 c	VOCs by 8260	Ice/HCl	(3) 40 ml Vial		ALS
1326 c	" " (FB)	"	"		"
1327 c	NDMA/DMA Bromacil by 607	Ice	(1) 1L Amber		SRL
1328 c	SVOCs by 8270D	"	(2) 500 ml Amber		ALS
1329 c	Total Metals	Ice/HNO3	(2) 125 ml Poly		"
1330 c	Anions/ALK	Ice	(2) 250 ml Poly		"
1331 c	TDS	"	(1) "		"
1332 c	Perchlorate	"	(1) 125 ml Poly		"
1333 c	NO2/NO3	Ice/H2SO4	(1) 250 ml Poly		"

Continued from page

Read and Understood By

12-10-2024
Date

B-138

12-11-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-10-2024 Page _____ of _____

Sample Location: 600A-002-1

Analytical Requirement

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	VOC	607	SVOC	Metals	Anions/DAK	TDS		Charge Number
											X6MD
241210 1325 C		3	D	X							
1326 C	FB	3		X							
1327 C		1			X						
1328 C		2				X					
1329 C		2					X				
1330 C		2						X			
1331 C		1							X		

Sample Location:

Analytical Requirement

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Perchlorate	NO2/NO3						Charge Number
241210 1332C		1	A	X							
1333C		1			X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	12-10-2024 1420		[signature]	12-11-24 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Abalos & Dan Halvorsen present. Weather is Clear and Cold. This will will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new PFAS Free tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy Grl in use.

Calibrations:

Initial DTW = 464.32 ft.
Final " = 464.53
IDW = 2 gal.

Do Sensor = In 100% saturated Air
PH Sensor = using 4, 7, 10 Buffers.
Conductivity = using a 1413 us/cm STD.
Turbidity = using a 10 NTU STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb	DTW
241202 0930 C	22.24	557	2.40	8.85	181	0.62	
0932 C	22.23	556	2.39	8.81	180	0.59	
0934 C	22.23	557	2.39	8.80	180	0.61	

SAMPLES

Sample #	Analysis	Preservative	Container	Lot	Lab
241202 0940 C	Voc by 8260	Ice/HCl	(3) 40 ml Vial	2774	ALS
0941 C	" " (FB)	"	"	"	"
0942 C	NDMA/NDMA Biomacil by 6007	Ice	(1) 1L Amber	119801	SRC
0943 C	Total metals	Ice/HNO3	(2) 125 ml Poly	N/A	ALS
0944 C	" " (Dup)	"	"	"	"
0945 C	Anions/DIK	Ice	(2) 250 ml Poly	"	"
0946 C	Perchlorate	"	(1) 125 ml Poly	"	"
0947 C	TDS	"	(1) 250 ml Poly	"	"
0948 C	TKN	Ice/H2SO4	"	"	"
0949 C	Chloride	Ice	"	"	"
0950 C	NO2/NO3	Ice/H2SO4	"	"	"

Continued from page

Read and Understood By

Signed 12.2.2024

12-3-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.2.2024 Page _____ of _____

Sample Location: 700-B-510

Analytical Requirement

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	VOA	Lead	metals	anions/Alk	Perchlorate			Charge Number
241202 0940 c		3	D	X							XGMD
0941 c	FB	3		X							
0942 c		1			X						
0943 c		2				X					
0944 c	Dup	2				X					
0945 c		2					X				
0946 c		1						X			

Sample Location:

Analytical Requirement

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	TDS	TKN	Chloride	NO_2/NO_3				Charge Number
241202 0947 c		1	D	X							XDD2
0948 c		1			X						
0949 c		1				X					
0950 c		1					X				

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.2.2024 1100			12-3-24 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Dan Halvorsen present. Weather is cloudy and cold. This well will be purged using a Bennett pump. Samples will be collected using a PFAS free bailer.

Total Depth: 150.00 ft.
Initial DTW = 118.70 ft.
Purge start = 0915 hrs.
Stop Purge = 0940 hrs.
Total gallons purged = 40 gal.
** NOTE: Well Pumped Dry !!

Meter ID
PH/COND = 15
TURB = 8
STD = 9.15
RDS = 9.18
LOT = A3293
EXP = 12/24

Parameters ~~from~~
Time = 241212 1330 c
PH = 7.75
Temp = 18.1 °C
Cond = 1524 µS/cm
Turb = 3.97 NTU's
PHPre = 6.94-9.93
PHPost = 6.96-9.94

SAMPLES

SAMPLE #	Analysis	Preserve	Container	LOT	LAB
241212/1335c	VOA by 8260	Ice/HCl	(3) 40 ml Vial	27774	ALS
1336c	" " (FB)	"	"	"	"
1337c	NDMA/DMN Bromacil by 607	Ice	(1) 1L Amber	119901	SRL
1338c	SVOA by 8270D	"	(2) 500 ml Amber	N 14	ALS
~~1339c~~ 1343c	Total metals	Ice/HNO3	(2) 125 ml Poly	"	"
1339c	Anions/Alk	Ice	(2) 250 ml Poly	"	"
1340c	TOS	"	(1) "	"	"
1341c	Perchlorate	"	(1) 125 ml Poly	"	"
1342c	NO2/NO3	Ice/H2SO4	(1) 250 ml Poly	"	"

Continued from page

Read and Understood by

12-12-2024 12-16-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-12-2024 Page _____ of _____

Sample Location: E 300-001-GSU

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	SVOC	metals	Anions/Alk	TDS		Charge Number
241212 1335c	4	A	X						
1336c FB	3		X						
1337c	1			X					
1338c	2				X				
1343c	2					X			
1339c	2						X		
1340c	1							X	

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: Perchlorate	Dox/NO3						Charge Number
241212 1341c	1	A	X							
1342c	1			X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.12.2024 1400			12-16-24 / 0810

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Ayales & Al Montes present. Weather is clear & cool. This well will be purged using a Bennett pump. Samples will be collected using a bailer.

Total Depth - 160.00'
Initial DTW - 122.45'
Purge Start - 0940 hrs
Stop Purge - 1055 hrs
3 Casing Volume - 73 gallons
Flow Rate - 1 GPM
~~IA~~

Meter ID
PH/Cond - #91
Turb - #C6
STD - 4.95 NTU
RDG - 4.20 NTU
LOT - A3293
EXP - 12/24

Initial Parameters	Secondary	Finals
Time - 2412/6/1035 ~~1115~~	2412/6/1340 C	2412/6/1359C
PH - 7.33	7.58	7.67
Temp - 21.6 °C	21.2 °C	21.3 °C
Cond - 1189 uS/cm	1068 uS/cm	1074 uS/cm
Turb - 4.34 NTU	4.54 NTU	4.67 NTU
PH pre - 7.07/10.04 (18.5 °C)	7.04/10.05 (19.7 °C)	7.02/10.06 (20.1 °C)
PH post - 7.05/10.04	7.06/10.04	7.04/10.03

Samples

Sample #	Analysis	Preserve	Container	Lot	HD
2412/6/1345 C	VOA by 8260	HCl/Ice	(3) 40 ml vials	2774	ALS
1346 C	= (FB)	=	=	=	=
1347 C	607/Bromacil	Ice	(1) 1L Amber	114901	SPL
1350 C	SVOA by 8270D	=	(2) 500 ml Amber	101121 BME	ALS
1354 C	Total Metals	HNO3/Ice	(2) 125 ml poly	NA	=
1355 C	Anions/AIK	Ice	(2) 250 ml poly	052024ERG	=
1356 C	TDS	=	(1) =	=	=
1357 C	Perchlorate 6850	Ice/1/3HS	(1) 125 ml poly	08/2842ERD	=
1358 C	NO2/NO3 by 353.2	H2SO4/Ice	(1) 250 ml poly	=	=

Continued from page

Read and Understood By

MJ Ayales — Signed — 12.16.24 — Date

Tom Mundt — Signed — 12-17-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/16/24 Page 1 of 1

Sample Location: 300 · 002 · GSV

Sample Number	# of Containers	Sample Matrix*	8260	607/1350	SVOA 8270	T. Metals	Anions/AK	TDS		Charge Number
241216 1345 C	3	A	X							XGMD
1346 C (FB)	3		X							
1347 C	1			X						
1350 C	2				X					
1354 C	2					X				
1355 C	2						X			
1356 C	1							X		

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Perchlorate	Nitr/Nitr						Charge Number
241216 1357 C	1	A	X							XGMD
1358 C	1			X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
MS GJ	12/16/24 @ 1440			12-17-24 / 0800

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Frank Gallegos & Tim Moore present. These samples will be purged & sampled using a dedicated sampling port. Carboy "Pine front"

Parameters	Meter ID	Buffers	LOT#	Exp
Time 241205 0857	PL/Cond-Pine front	7	CC779793	6/25
pH 7.77	Turb-Pine front	10	CC783411	5/25
Temp 23.6°C	"STD 9.78 NTU			
Cond 1050 us/cm	"ROG 9.78 NTU			
Turb 0.22 NTU	"LOT# N/A			
PH pre 6.94-10.00 (12.76) Exp- 12/31/24				
PH post - 7.02-10.02				

Samples

Sample #	Analysis	Preserve	LOT#	LAB Cont
241205 0905	VOA by 8260C (11)	ICE & HCl	N/A	ALS (3) 40mL vial
0906	" (FB)	"	"	" "
0907	NDMA/DMA/Riboxx07	ICE	"	SWR (1) (tan mbc)
0908	LC NDMA	"	"	" "
0909	" (FB)	"	"	" "
0910	SVOA SIM	"	"	ALS (1) 250mL amb

Continued from page N/A

Read and Understood By

Tim Moore 5 Dec 2024 Date

Tom Mauck 12-5-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-5-2024 Page 1 of 1

Sample Location: B65-D-EFF-1

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMNP/1,4 BROMACIL LOW LEVEL NDMA	TOTAL METALS ANIONS / ALK	TDS SM2540C	Charge Number
241205 0905	3	A			X				XGMD
— 0906 (FB)	3	A			X				"
— 0907	1	A				X			"
— 0908	1	A					X		"
— 0909 (FB)	1	A					X		"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241205 0910	1	A				X					XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	12-5-24 1020	[signature]	12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged and taken using a dedicated sampling port. Carboy: Pine Front.

Parameters	Meter ID	Buffers	Lot #	Exp
Time 24120509 15	pH/cond - Pine Front		CC 779793	6/25
pH 7.17	Turb - Pine Front 10		CC 783411	8/25
Temp 23.4°C	" STD - 9.78			
Cond 1035 uS/cm	" RDG - 9.79			
Turb 0.26 NTU	" Lot # - N/A			
Ph pre 6.99 - 10.00 (19.8%)	" Exp - 12/31/24			
Ph post 7.02 - 10.00				

Sample ID #	Analysis	Samples Preserv	Lot #	Lab	Cont
24120509 20	VOA by 8260	ICE & HCL	N/A	ALS	(3) 40 mL Vial
" 0921	" (FB)	"	"	"	"
" 0922	NDMA [DMN] by 1607	ICE	"	SWRI	(1) Cl amber
" 0923	SVOA - SIM	"	"	ALS	(1) 250 mL amber

Continued from page N/A

Read and Understood By

5 Dec 2024 — Date

B-148

Signed — 12-5-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-5-20024 Page 2 of 1

Sample Location: B 650 - INF - 1

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMNJ/BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS	ANIONS / ALK	TDS SM2540C
241205 0920	3	A	X					
0921 (FB)	3	A	X					
0922	1	A			X			

XGMD Charge Number

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE				
241205 0923	1	A			X				

XGMD Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12-5-24 / 1020	for [illegible]	12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged and taken using a dedicated sampling port. Cowboy "Blue front"

Parameters	Meter ID	Buffers	Lot #	Exp
Time 241205 0948	pH/cond - Blue front	cc779793		6/25
pH 7.87	Turb - Blue front / 10	cc783411		8/25
Temp 22.9°C	" STD 9.78 NTU			
cond 1097 uS/cm	" RNG 9.79 NTU			
Turb 0.20 NTU	" LOT # - N/A			
PhPre 6.97 - 10.09 (17.2°C)	Exp - 12/31/24			
PhPosT - 7.02 - 10.08				

Samples

Sample #	Analysis Req	Lot #	LAB	Cont
241205 0953	VOA by 8260 (CL) ICE HCl	N/A	ALS	(3) 40 mL vial
— 0954	" (FB)	"	"	"
— 0955	NDMA (DMN) / Br by 600 ICE	"	SVRL	(1) C4 amber
— 0956	LC NDMA	"	"	"
— 0957	" (FB)	"	"	"
— 0958	SVOA_SIM	"	ALS	(1) 250 mL amber

Continued from page N/A

Read and Understood By

5 Dec 2024 — 12-9-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-5-24 Page 1 of 1

Sample Location: 0655-EFF-2

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 LOW LEVEL NDMA	TOTAL NITRATE ANIONS/ALK	TDS SM2540C	Charge Number
241205 0953	3	A			X				XGMD
0954 (FB)	3	A			X				
0955	1	A				X			
0956	1	A					X		
0957 (FB)	1	A					X		

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241205 0958	1	A				X					XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12-5-24 (1070)		12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be parsed and sampled using a dedicated sampling port. Cathy: Pine front.

Parameters	Meter ID	Buffers	Lot #	Exp
Time 241205T004	PH/cond-Pine front	7	CC779783	6/25
PH 6.89	Turb-Pine front	10	CC783411	8/25
Temp 22.7C	" STD- 9.78			
Cond 1099 uS/cm	" RDG- 9.79			
Turb 0.31 NTU	" LOT#- N/A			
PH pre 6.98-10.00(20.1C)	" Exp- 12/30/24			
PH post-7.02/10.02				

Samples

Sample #	Analysis	Pres	Lot #	CAB CONT
241205T010	VOA by 8260	ICE Hcl	N/A	ALS (3) 40ml Vial
— 1011	" (Dup)	"	"	" "
— 1012	" (FB)	"	"	" "
— 1013	NO MA/DMW/Bo by 6010	ICE	"	SVR1 (1) Clear amber
— 1014	SVOA_SIM	"	"	ALS (1) 250ml amber

Continued from page N/A

Read and Understood By

B-152

5 Dec 2024 — 12-5-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-~~5~~-24

Sample Location: B655 INF-2

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/ BROMACIL LOW LEVEL NDMA	TOTAL METALS / ANIONS / ALK	TDS SM2540C	Charge Number
241205/1010	3	A	X					XGMD
— 1011 (Dup)	3	A	X					"
— 1012 (FB)	3	A	X					"
— 1013	1	A			X			"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
241205/1014	1	A			X					XGMD
										"

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12-5-24 (1020)		12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Robert Burrows & Dan Halvorsen present. Weather is clear and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new Teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500, Cerboy 61 in 466

Calibrations

Initial DTW: 487.45 ft.
Final " 497.60
TDW: 2 gal.

DO Sensor: In 100% Saturated air.
pH Sensor: Using 4, 7, 10 Buffers
Conductivity: Using a 1413 µS/cm STD.
Turbidity: Using a 10 NTU STD.

TRIP BLANKS

Sample #	Analysis	Preserve	Container	Lot	Lab
241209 0720 c	VOC by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
—— 0721 c	NDMA LL	Ice	(1) 1L Amber	119901	SRL

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb
241209 0900 c	12.88	988	5.17	7.60	209	0.57
—— 0902 c	12.88	987	5.13	7.57	210	0.61
—— 0904 c	12.89	987	5.16	7.56	210	0.58

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241209 0910 c	VOC by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
—— 0911 c	" " (FB)	"	"	"	"
—— 0912 c	NDMA LL	Ice	(1) 1L Amber	119901	SRL
—— 0913 c	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

12-9-2024 Date

12-10-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-9-2024 Page _____ of _____

Sample Location: BLM-7-509

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: VOA	Analytical Requirement: UDM94L						Charge Number: XGMD
241209 0720C	TB	3	A	X							
0910C		3		X							
0911C	FB	3		X							
0721C	TB	1			X						
0912C		1			X						
0913C	FB	1			X						

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12-9-2024 1100			12-10-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT B/m-27-270

Notebook No. D32 # 1534 /9

Continued from page

AL MONTES & TONY TORRES PRESENT. THE WEATHER IS CLEAR & COOL. THIS WELL WILL BE PURGED & SAMPLED USING A DEDICATED TEFLON BLADDER PUMP. PARAMS COLLECTED FROM A INSITU AQUA TROLL 500. CALIBRATIONS

DO SENSOR CAL'D IN 100% SATURATION
COND SENSOR CAL'D IN 1413 µs/cm STANDARD.
pH SENSOR CAL'D IN 4, 7, 10 BUFFERS.
TURB SENSOR CAL'D IN 20 NTU BUFFER.

PARAMS

SAMPLE#	TEMP	DO	ORP	pH	COND	TURB.
24/12/10 0920A	19.23°C	6.16	143.3	7.59	788.90	0.38
0921A	19.23°C	6.15	144.1	7.59	788.69	0.41
0922A	19.23°C	6.16	144.0	7.59	789.84	0.49

SAMPLES

SAMPLE#	ANALYSIS	PRESERV	CONT	LAB
24/12/10 0930A	8260	ICE/HCl	(3) 40 mL VIALS	ALS
0931A	" (FB)	"	"	"
0932A	" (Dup)	"	"	"
0933A	6010	ICE	(1) 1L AMBER	SNE
0934A	" (Dup)	"	"	"
0935A	TOTAL METALS	ICE/HNO3	(2) 125mL POLY	ALS
0936A	" (FB)	"	"	"

Continued from page

Read and Understood By

T. [signature] Signed

12-10-24 Date

B-156

[signature] Signed

12-11-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12·10·2024 Page 1 of 1

Sample Location: BLM·27·270

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	8260	6007	TOTAL METALS					Charge Number
										XGMD
241210 0930A	3	A	x							
0931A	3		x							
0932A	3		b							
0933A	1			b						
0934A	1			x						
0935A	2				x					
0936A	2				x					

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
TV	12.10.24 / 1100		[signature]	12-11-24 / 1830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

92 569

PROJECT BLM-42-209 E4U.0053

Notebook No. DSZ #133

Continued from page

AL MONTES & TONY TORRES PRESENT THE WEATHER IS ~~CLEAR~~ & BREEZY. THIS WELL WILL BE PURGED & SAMPLED WITH A DEDICATED TEFLON BLADDER PUMP. SAMPLES COLLECTED FROM A TEFLON DISCHARGE TUBE. PARAM'S COLLECTED FROM A INSITU AQUA TROLL 500. CARboy 6-2

TRANSDUCER
20.18 psi
25.75 °C
46.64 FT

CALIBRATIONS

DO SENSOR cal'd in 100% SATURATED
COND SENSOR cal'd w/ 1413 µS/cm STANDARD
PH SENSOR cal'd w/ 4/7/10 BUFFERS.
TURB SENSOR cal'd w/ 10 NTU STANDARD

PARAMETERS

SAMPLE #	COND	TEMP	pH	ORP	DO	TURB
241209 1355A	588.36	21.64	8.94	~~DS.4~~ (26.5)	5.04	0.91
1356A	586.10	21.63	8.93	27.3	5.03	0.88
1357A	586.00	21.63	8.94	27.8	5.03	0.73

SAMPLES

SAMPLES	ANALYSIS	PRESERV	CONT	LAB
241209 1401A	8260 VOC	HCl/HNO3	(3) 40ml VIALS	ALS
1402A	" (FB)	"	"	"
1403A	LVOCMA	ICE	(1) 1LT AMBER	SVL
1404A	" (FB)	"	"	"

Continued from page

Read and Understood By

12-9-24

B-158

12-10-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.09.24 Page 1 of 1

Sample Location: BLU. 4/2. 569

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL8260	Analytical Requirement: LL20MA						Charge Number
										X6MD
241209 1401A	3	A	x							
1402A (FB)	3	A	x							
1403A	1	A		x						
1404A (FB)	1	A		x						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.09.24 2PM			12-10-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

All monites & Tony Jarrett present. The weather is clear & cool. This well will purged & sampled using a Teflon Bladder pump. Samp. collected from a Teflon discharge Tube. Parameters collected from a In Situ Aqua Troll 500.

Calibrations
Dosenson cal'd. w 100% saturation
Cond Sensor cal'd w 1413 ms/cm std.
pH Sensor cal'd w 4, 7, 10 Buffers.
Turb Sensor cal'd w 10 NTU Buffers.

Param's

Sample #	Cond	Temp	orp	pH	Do	Turb.
24120905 55A	572.68	21.39	148.9	7.35	4.85	0.84
— 0556A	574.40	21.40	148.4	7.37	4.70	0.78
— 0557A	574.69	21.41	148.9	7.37	4.84	0.88

Samples

Sample #	Analysis	Preserv	Cont	Lab
24120910000A	8260 U	HCl	(3) 40ml vials	ALS
— 1001A	" (FB)	"	"	"
— 1002A	" (MS)	"	"	"
— 1003A	1,4 Dioxane	Ice	(1) 1 Liter Amber	"
— 1004A	" (FB)	"	"	"
— 1005A	" (MS)	"	"	"
— 1006A	" (Dup-MS)	"	"	"

Continued from page

Read and Understood By

Signed 12-5-24 Date

Signed 12-10-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.9.24 Page 1 of 1

Sample Location: BU.42.709

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL NDMA						Charge Number
			Analytical Requirement							X6nD
241209 1000A	3	A	X							
—— 1001A (FB)	3		X							
—— 1002A (MS)	3		X							
—— 1003A	1			X						
—— 1004A (FB)	1			X						
—— 1005A (MS)	1			X						
—— 1006A (Dup/MS)	1			X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T-SD	12-9-24/1100		[signature]	12-10-24 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AC Montes & Tony Torres present. The weather is clear & 60C. This zone will be purged & sampled using a Ded. coated TEFLON Bladder pump. Params collected from In-Situ Aquatroll 500. Carboy 6-2.

Calibrations
DO Sensor cal'd w/ 100% Saturation
Cond Sensor cal'd w/ 1413 µs/cm
pH Sensor cal'd w/ 4, 7 & 10 Buffers.
Turb Sensor cal'd w/ 20 NTU's

Params

Sample#	pH	Temp	Cond	DO	ORP	Turb.
24120 1335A	7.49	20.88	1,010.4	6.97	171.3	0.83
1336A	7.49	21.00	1,013.5	6.92	174.3	0.89
1337A	7.49	21.03	1,012.6	6.95	176.7	0.78

Samples.

Sample#	Analysis	Preserv	Cont	Lab
24120 1340A	8260	Iced/HCl	(3) 40ml vials	ALS
1341A	" (BS)	"	"	"
1342A	6007	Iced	(1) Liter amber	SNJ
1343A	Total Metals	Iced/HNO3	(2) 125ml poly	ALS

Blind Control

Sample#	Analysis	Preserv	Cont	Lab
24120 1400A	8260	Iced/HCl	(3) 40ml vials	ALS
1401A	6007	Iced	(1) Liter amber	SNJ
1402	Total Metals	Iced/HNO3	(2) 125ml poly	ALS

8260 TT = 24ENM035A
6007 = 24ENM035B
Total Metals = 24ENM035C

Continued from page

Read and Understood By

T-D
Signed
12-10-24
Date

Signed
12-11-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-10-24 Page 1 of 1

Sample Location: BW-7-211

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Mn-Fe-Cu					Charge Number
										XGmD
241210 1340A			X							
1341A (FB)			X							
1400A (BC)			X							
1401A (BC)				X						
1342A				X						
1343A					X					
~~1344~~ 1402A (BC)					X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	12/10/24/1500		[signature]	12-11-24 / 0936

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

PROJECT PC.2.504 ENV.2053 Notebook No. D32#136(A)

Continued from page

Tony Torrez & Craig Del Ferro. The weather is clear & cool. This zone will be purged & sampled with a Dedicated Teflon Bladder pump. Samples collected from a Teflon discharge Tube. Parameters collected from a Insitu Aqua Troll 500. Carboy ~~60~~ 20 Gl

Calibrations

DO Sensor Cal'd in 100% Saturation
Cond Sensor Cal'd in 1413 µs/cm Standard
pH Sensor cal'd in 4, 7, 10 Buffers.
Turb Sensor cal'd in 20 NTU Standard

Param's

Sample #	Temp	Cond	DO	ORP	pH	Turb
24/12/16 1000A	20.16	844.14	7.15	190.7	7.91	1.91
1003A	20.21	843.67	7.03	193.3	7.93	1.74
1006A	20.25	843.02	6.91	197.0	7.94	1.43

Trip Blanks

Sample #	Analysis	Preserv	Cont	Calg
24/12/16 0820A	8260	ICE/HCl	(3) 40mL VOAs	ALS
0821A	~~6007~~ CO LL NDMA	ICE	(1) 1L Amber	SUB

Samples

Sample #	Analysis	Preserv	Cont	Calg
24/12/16 1010A	8260	~~8260~~ ICE/HCl	(3) 40mL VOAs	ALS
1011A	" (FB)	"	"	"
1012A	6007	ICE	(1) 1L Amber	SUB
1013A	" (Dup)	"	"	"
1014A	LL NDMA	"	"	~~SUB~~ SUB
1015A	" (FB)	"	"	"
1016A	" (Dup)	"	"	"

Initial DTW: 483.44ft. Total gallons purged: 1.5

Continued from page

Read and Understood By
B-164

Craig Del Ferro 12/16/24 [signature] 12-16-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/16/24 Page 1 of 1

Sample Location: PL-2-504

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	LLNDMA					Charge Number
241216 0820A (TB)	3	A	✓							XGMD
——— 0821A (TB)	1	A			✓					u
——— 1010A	3	A	✓							u
——— 1011A (FB)	3	A	✓							u
——— 1012A	1	A		✓						u
——— 1013A (Dupl.)	1	A		✓						u
——— 1014A	1	A			✓					u

Sample Location: PL-2-504

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LLNDMA							Charge Number
241216 1015A (FB)	1	A	✓							XGMD
——— 1016A (Dupl.)	1	A	✓							u

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Delfino	12/16/24 / 1110hrs.		[signature]	12-17-24 / 0800

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avelos & Dan Halvorsen present. Weather is clear and warm. This well will be purged and sampled using a decicated bladder pump. Samples will be collected using a new PFAS Free tubing. Water quality parameters will be monitored using an In-Situ AquaTroll 500. Carboy 61 in use.

Calibrations:
Do Sensor: In 100% Saturated air.
PH Sensor: Using 4, 7, 10 Buffers
Conductivity: Using a 1413 us/cm STD.
Turbidity: Using a 10 Nth STD

Initial DTW = 455.10 ft.
Final " = 455.10
IDW = 1.5 gal.

Parameters (Time)	Temp	Cond	Do	pH	ORP	Turb	DTW
24120214240 c	31.51	1015	6.19	7.33	199	2.91	455.10
14142 c	31.50	1013	6.16	7.30	197	2.88	455.10
14144 c	31.50	1014	6.19	7.31	197	2.76	455.10

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
24120214450 c	VOA by 8260	Ice/HCl	(3) 40 ml Vials	27744	ALS
14451 c	" " (FB)	"	"	"	"
14452 c	NDMA LL	Ice	(1) 1L Amber	119901	SRI
14453 c	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

12-2-2024 Date

B-166

Signed

12-3-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-2-2024 Page _____ of _____

Sample Location: PL-4-464

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	Analytical Requirement: DOMA 4						Charge Number
										XGMD
241202 ~~1200~~ 1450 c	3	A	4							
1451 c FB	3		4							
1452 c	1			4						
1453 c FB	1			4						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12-2-2024 1500		12-3-24 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig Del Ferraro present. Weather is cloudy, cool, and breezy. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Gen. in use. Probe # 1539. Surface checks performed on probe prior to sampling

30 Min. Equipment Blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241206 1230Y	VOA by 8260 LL	ice/HCL	(3) 40ml vials	2774	ALS
[redacted] 1231Y	Low Level NDMA	ice	(1) 1L Amber	011990 IJ	SRI

Initial Parameters
Time - 241206 1300Y
PH - 8.43
Temp - 21.4°C
Cond - 951 us/cm
Turb - 1.28 NTU's
pH pre - 7.13/10.08 (18.0°C)
pH post - 7.11/10.08
DTW - 455.72ft.
Atmos - 12.54 psia

Final
Time - 241206 1430Y
PH - 8.32
Temp - 20.8°C
Cond - 945 us/cm
Turb - 1.17 NTU's
pH pre - 7.12/10.09 (17.3°C)
pH post - 7.13/10.08
DTW - 455.74ft.
Atmos - 12.51 psia
IDW - 1/2 gals.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8 NTU
" rdg - 48.0 NTU
" lot - A3293
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/2
10	CC783411	8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241206 1325Y	VOA by 8260 LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1326Y	Low Level NDMA	ice	(1) 1L Amber	011990 IJ	SRI
——— 1400Y	1,4 Dioxane by 8270D	"	(1) 250ml amb.	071122-1GJ	ALS

Runs	1)	2)	3)	4)
	16.23	16.18	16.21	16.21
	21.01	20.99	20.96	20.99
	20.87	20.92	20.93	20.99
	16.21	16.20	16.20	16.24

Continued from page N/A

Read and Understood By

Craig Del Ferraro 12/6/24

[redacted] 12-9-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/6/24 Page 1 of 1

Sample Location: PL-8-455

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	LLNDMA	Dioxane					Charge Number
Pertinent Notes (if any)										
241206 1230Y (EB)	3	A	✓							XGMD
1231Y (EB)	1	A		✓						"
1325Y	3	A	✓							"
1326Y	1	A		✓						"
1400Y	1	A			✓					"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number
Pertinent Notes (if any)										

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelZenno	12/6/24 / 1500hrs			12-9-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kendy & Craig Del Ferraro present. Weather is cloudy, cool, & breezy. this zone will be sampled using 5 steam cleaned & triple rinsed, stainl steel sample tubes. Gen. in use. Probe #1539. Surface checks performed probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241206090oy	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——0901y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

Initial Parameters
Time - 241206092 5y
PH - 8.67
Temp - 21.7°C
Cond - 1017us/cm
Turb - 2.60 NTU's
pH pre - 7.13/10.16 (11.7°c)
pH post - 7.12/10.16
DTW - 455.64ft.
Atmos - 12.61psia

Final
Time - 241206121 6y
PH - 8.80
Temp - 21.1°C
Cond - 1009us/cm
Turb - 1.85 NTU's
pH pre - 7.11/10.09 (16.3°c)
pH post - 7.10/10.10
DTW - 455.72ft.
Atmos - 12.59 psia
IDW - ½ gals.

Meter ID
pH/Cond - 12
Turb - 7
" Std - 48.8 NTU
" rdg - 48.0 NTU
" lot - A3293
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241206094 5y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——0946y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI
——1215y	1,4 Dioxane by 8270D	"	(1) 250ml amb.	071122-1GJ	ALS

Runs	1)	2)	3)
	81.80	81.75	81.74
	85.97	85.98	85.96
	86.00	86.01	85.85
	81.76	81.76	81.71

Continued from page N/A

Read and Understood By

Craig Del Ferraro 12/6/24 — Signed / Date

B-170

12-9-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/6/24 Page 1 of 1

Sample Location: PL-8-605

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	LLNDMA	1,4-Dioxane					Charge Number
241206090oy (EB)		3	A	✓							XGMD
0901y (EB)		1	A		✓						"
0945y		3	A	✓							"
0946y		1	A		✓						"
1215y		1	A			✓					"

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Deltenre	12/6/24 / 1500hrs.		[signature]	12-9-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTES & ROB BARROWS PRESENT. WEATHER IS COLD & CLEAR. THIS ZONE WILL BE PURGED USING A FLUTE SYSTEM. SAMPLES WILL BE TAKEN FROM A DEDICATED DISCHARGE TUBE. PURGE EVERY 15 MIN AND MIN OF 4 gals. BLADDER SET @ 3 PSI., STABLE @ 7 PSI. PURGE PRES. @ 227 PSI, SAMPLE @ 205 PSI.

PARAMETERS		SAMPLE PARAMS		METER ID
TIME = 241202 1145B		241202 1220B		PH/COND = 91
PH = 5.47		5.33		TURB MTR = 6
TEMP = 19.5	°C	20.5	°C	" STD = 4.95
COND = 1152	uS/cm	1144	uS/cm	" RNG = 4.80
TURB = 7.45	NTU	7.10	NTU	" LOT# = A3293
PH PRE = 7.04-10.05 (14.5°)		7.04-10.06 (14.5°)		" EXP = 12.31
PH POST = 7.04-10.05		7.03-10.05		

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LAB
241202 1221B	8260 LL	ICE · HCl	3-40ML VIALS	ALS
—— 1222B	8260 LL (FB)	"	"	"
—— 0750B	8260 LL (TB)	"	"	"
—— 1225B	LL NDMA	ICE	1LT AMBER	SRL
—— 1227B	LL NDMA (FB)	"	"	"
—— 0751B	LL NDMA (TB)	"	"	"
—— 1230B	1,4 DIOXANE	"	250ML AMBER	ALS

Continued from page NA

Read and Understood By

12·2·24 Date

B-172

12-3-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-2-24 Page 1 of 1

Sample Location: PL-11-470

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 2014	1,4 Dioxane					Charge Number
										XGMD
241202 1221B	3	A	x							
1222B (FB)	3	A	x							
0750B (TB)	3	A	x							
1225B	1	A		x						
1227B (FB)	1	A		x						
0751B (TB)	1	A		x						
1230B	1	A			x					

Sample Location: PL-11-530

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 2014	1,4 Dioxane					Charge Number
										XGMD
241202 1236B	3	A	x							
1238B (DUP)	3	A	x							
1240B (FB)	3	A	x							
1242B	1	A		x						
1244B (FB)	1	A		x						
1246B	1	A			x					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12-2-24 1350			12-3-24 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AT MONTES & ROB BURROWS PRESENT. WEATHER IS COOL & CLEAR. ZONE WILL BE PURGED W/ FLUTE SYSTEM. SAMPLES WILL BE TAKEN FROM DEDICATED DISCHARGE TUBE. PURGE EVERY 15 MIN AND MIN. OF 4 gals. BLADDER SET @ 3 PSI., STABLE @ 7 PSI. PURGE REG. @ 217, SAMPLE @ 205 PSI.

PARAMETERS	SAMPLE PARAMS
TIME = 241202 1150B	241202 1235B
PH = 8.45	8.35
TEMP = 19.4 °C	20.3 °C
COND = 1101 uS/cm	1114 uS/cm
TURB = 2.48 NTU	2.03 NTU
PH PRE = 7.01-10.03 (14.6c)	7.02-10.04 (14.6c)
PH POST = 7.03-10.04	7.04-10.03

METER ID
PH/COND = 91
TURB MTR = 6
" STD = 4.95 NTU
" REG = 4.80 "
" LOT# = A3293
" EXP = 12.31

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LAB
241202 1236B	LL 8260	ICE·HCL	3·40ML VIALS	ALS
——— 1238B	LL 8260 (DUP)	"	"	"
——— 1240B	LL 8260 (FB)	"	"	"
——— 1242B	LL NDMA	ICE	1LT AMBER	SRL
——— 1244B	" (FB)	"	"	"
——— 1246B	1,4 DIOXANE	"	250ML AMBER	ALS

Continued from page NA

Read and Understood By

Signed 12·2·24 Date

Signed 12-3-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12·2·24 Page 1 of 2

Sample Location: PL-11-470

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 2014	1,4-Dioxane					Charge Number
										XGMD
241202 1221B	3	A	x							
1222B (FB)	3	A	x							
0750B (TB)	3	A	x							
1225B	1	A		x						
1227B (FB)	1	A		x						
0751B (TB)	1	A		x						
1230B	1	A			x					

Sample Location: PL-11-530

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 2014	1,4-Dioxane					Charge Number
										XGMD
241202 1236B	3	A	x							
1238B (DUP)	3	A	x							
1240B (FB)	3	A	x							
1242B	1	A		x						
1244B (FB)	1	A		x						
1246B	1	A			x					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12·2·24 1350			12-3-24 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT PL·11·710 WSI: ENV·0110

Notebook No. D32#135B

Continued from page NA

AL MONTES & ROB BURRUS PRESENT. WEATHER IS COLD & WINDY. THIS ZONE WILL BE PURGED W/ A FLOTE SYSTEM. SAMPLES WILL BE TAKEN FROM A DEDICATED DISCHARGE TUBE. PURGE EVERY 15 MIN. AND MIN. OF 4 gals. BUBBLER SET @ 3 PSI AND STABLE @ 7 PSI. PURGE PRES. 22 PSI. & SAMPLE @ 20 PSI. CARBOY G·2.

PARAMETERS		SAMPLE PARMS		METER ID	
TIME = 241203 1140B		241203 1210B		PH/COND = SI	
PH = 8.12		8.02		TURB MTR: G	
COND = 8,1082	uS/cm	1073	uS/cm	" STD = 4.95	NTU
TEMP = 18.6°	°C	20.9	°C	" RDG = 4.79	"
TURB = 3.61	NTU	2.59	NTU	" LOT# = A3293	
PH PRE = 7.04; 10.06 (19.5°)		7.04 · 10.07 (19.9°)		" EXP = 12·31	
PH POST = 7.04 - 10.05		7.01 = 10.08			

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LAB
241203 1215B	LL 8260	ICE. HCl	3-40mL VIALS	ALS
1216B	" (FB)	"	"	"
1218B	LL NDMA	ICE	1LT AMBER	SRL
1219B	" (FB)	"	"	"
1222B	1,4 DIOXANE	"	250mL AMB.	ALS

Continued from page NA

Read and Understood By

12·3·24 Date

B-176

12-4-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.3.24 Page 1 of 1

Sample Location: PL-11-710

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LC8250	LL NDMA	1,4 D-Dioxane					Charge Number: XGMD
241203 1215B		3	A	X							
1216B	(FB)	3		X							
1218B		1			X						
1219B	(FB)	1			X						
1222B		1				X					

Sample Location: PL-11-820

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LC8250	LL NDMA						Charge Number: XGMD
241203 1230B		3	A	X							
1232B	(FB)	3		X							
1235B		1			X						
1236B	(FB)	1			X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.3.24 2PM			12-4-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AT MONTED & ROS BURROW PRESENT. WEATHER → COLD & WINDY. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM EVERY 15 MINS. SAMPLES WILL BE TAKEN FROM A DEDICATED DISCHARGE TUBE. MIN OF 4gal PURGED. BUBBLER SET @ 3ft AND STABLE @ 7PSi. PURGE PRES @ 22 PSi, SAMPLE @ 20SPSi. CARBOY G-2.

PARAMETERS	SAMPLE PARMS	METER ID
TIME = 241203 1147B	241203 1226GB	PH/COND: 91
PH = 8.62	8.63	TURB MTR: G
TEMP = 19.1 °C	19.5 °C	" STD = 4.85 NTU
COND = 1026 US/cm	1020 US/CM	" RDG = 4.39 NTU
TURB = 4.39 NTU	3.40 NTU	" LOT = A3293
PHPRE = 7.06-10.04 (19.1°)	7.04-10.06 (19.5°)	" EXP = 12.31
PHPST = 7.05-10.05	7.03-10.07	

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LAB
241203 1230B	LL 8260	ICE-HCL	3-40mL VIALS	ALS
1232B	" (FB)	"	"	"
1235B	LL NDMA	ICE	1LT AMBER	SRL
1236B	" (FB)	"	"	"

Continued from page N/A

Read and Understood By

Signed — Date 12-03-24

Signed — Date 12-4-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.3.24 Page 1 of 1

Sample Location: PL. 11.710

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL 2MA	4A-DXE2E					Charge Number: XGMD
241203 1215B		3	A	X							
1216B	(FB)	3		X							
1218B		1			X						
1219B	(FB)	1			X						
1222B		1				X					

Sample Location: PL. 11.820

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL 2MA						Charge Number: XGMD
241203 1230B		3	A	X							
1232B	(FB)	3		X							
1235B		1			X						
1236B	(FB)	1			X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.3.24 2PM			12-4-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

62

PROJECT PL·1·980 WJ1·ENV: DR

Notebook No. D32#155B

Continued from page NA

M MONTES & ROB BARROWS PRESENT. WEATHER IS COLD & WINDY. THIS ZONE WILL BE SAMPLED W/A FLUTE SYSTEM. PURGE EVERY 15 MIN @ 22 PSI, SAMPLE @ 20 PSI. BUBBLER SET @ 3 PSI., STABLE @ 7 PSI · CARBOY CA·2

PARAMETERS		SAMPLE FORMS	
TIME = 241203 1144B		241203 1245B	
PH = 8.71		8.63	
TEMP = 19.9	°C	20.1	°C
COND = 962	uS/cm	959	uS/cm
TURB = 2.55	NTU	2.10	NTU
PH PRE = 7.04·10.05 (19.5C)		7.04·10.06 (20.1C)	
PH POST = 7.05·10.06		7.04·10.04	

NTR ID	
PH/COND	: 41
METER TURB	: 6
TURB STD	= 4.95 NTU
" RSD	= 4.79 NTU
" LOT #	= A3293
" EXP	= 12·31

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	CARB
241203 1250B	LL 8260	ICE·HCL	3·40mL VIALS	ACS
1252B	" (FB)	"	"	"
1255B	LL NDMA	ICE	1 LT AMBER	SRI
1256B	" (FB)	"	"	"

Continued from page NA

Read and Understood By

12·3·24

12-4-24

Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.3.24 Page _____ of _____

Sample Location: PL-11.980

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	8260 VOC	2D 2A						Charge Number
										XGMD
241203 1250 B	3	A	x							
1252 B (FD)	3		x							
1255 B	1			x						
1256 B (FA)	1			x						

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.3.24 2PM			12-4-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Dan Ashworsen present. Weather is Clear and Cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new PFAS Free tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy 61 in use.

Calibrations:

DO Sensor = In 100% Saturated air.
pH Sensor = using 4, 7, 10 Buffers
Conductivity = using a 1413us/cm STD.
Turbidity = using a 10 NTU STD

Initial DTW = 470.35 ft.
Final " = 470.63
IDW = 1.5 gal.

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb
241206 0920 c	27.94	945	6.85	7.27	213	0.99
0922 c	27.93	943	6.80	7.23	212	0.97
0924 c	27.93	945	6.81	7.26	212	0.99

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	LAB
241206 0926 c	VOA by 8260	Ice/HCl	(3) 40 ml vial	2774	A&S
0927 c	" " (FB)	"	"	"	"
0928 c	NDMA/PMN Bromide by 607	Ice	(1) 1L Amber	119901	SRL

Continued from page

Read and Understood By

12-6-2024 12-9-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-6-2024 Page _____ of _____

Sample Location: ST-3-486

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	VOA	607						Charge Number
										XGMD
241206 0926 c	3	A	X							
0927 c	3	/	X							
0928 c	1	/		X						

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.6.2024 1315			12-9-24 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Dukes & Dan Halvorsen present. Weather is cloudy and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new PFAS free tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Cardy GI in use.

Calibrations

DO Sensor: In 100% Saturated Air.
PH Sensor: Using 4, 7, 10 Buffers
Conductivity: Using a 1413 us/cm STD
Turbidity: Using a 10 ntu STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	TURB	DTW
241205 0930 c	19.52	934	7.12	7.16	171	0.81	
—— 0932 c	19.51	936	7.10	7.10	170	0.75	
—— 0934 c	19.51	934	7.10	7.13	170	0.79	

SAMPLES

Sample #	Analysis	Preservative	Container	Lot	LAB
241205 0940 c	VOA by 8260	Ice/HCl	(3) 40ml VOA	227454	ALS
—— 0941 c	" " (Dup)	"	"	"	"
—— 0942 c	" " (FB)	"	"	"	"
—— 0943 c	NDMA/DMN Bromacil by 625	Ice	(1) 1L Amber	119901	SRL
—— 0944 c	" " (Dup)	"	"		"

Continued from page

Read and Understood By

12-5-2024

12-6-24
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-5-2024 Page _____ of _____

Sample Location: ST3-586

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	Analytical Requirement: LOC						Charge Number: XGMD
241205 0940 c	3	G	X							
0941 c DUP	3		X							
0942 c FB	3		X							
0943 c	1			X						
0944 c DUP	1			X						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12-5-2024 1100			12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Dukes & Dan Halvorsen present. Weather is cloudy and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new PFAS Free tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy 61 in use.

Calibrations:

Do Sensor = In 100% saturated air.

PH sensor = using 4, 7, 10 Buffers

Conductivity = using a 1413 us/cm STD.

Turbidity = using a 10 Ntu STD.

Parameters (Time)	Temp	Cond	Do	PH	ORP	Turb
241206 1215 c	15.68	908	7.27	7.40	204	1.25
1217 c	15.66	910	7.24	7.37	205	1.19
1219 c	15.68	910	7.26	7.32	205	1.22

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241206 1223 c	VOA by 8260	Ice/HCl	(3) 40 ml Vial	27774	ALS
1224 c	" " (FB)	"	"	"	"
1225 c	NDMA NDMA Bromate by 607	Ice	(1) 1L Amber	119901	SRL

Continued from page

Read and Understood By

Signed

12-6-24 Date

Signed

12-9-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.6.2024 Page _____ of _____

Sample Location: ST-3-666

Sample Number	# of Containers	Sample Matrix*	U05	L07						Charge Number
Pertinent Notes (if any)										XGMD
241206 1223C	3	A	X							
1224C	3		X							
1225C	1			X						

Sample Location:

Sample Number	# of Containers	Sample Matrix*								Charge Number
Pertinent Notes (if any)										

Analytical Requirement

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	12.6.2024 1315		[signature]	12-9-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Dubbs & Dan Halvorsen present. Weather is cloudy, breezy and cool. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new PFAS Free tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy 61 in use.

Calibrations:
DO sensor = In 100% saturated air.
PH Sensor = using 4, 7, 10 Buffers
Conductivity = using a 1413 us/cm STD.
Turbidity = using a 10 NTU STD.

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb
241205 1420 c	20.75	951	6.39	6.91	71.	2.48
1422 c	20.74	950	6.36	6.87	72	2.41
1424 c	20.74	951	6.38	6.90	72	2.45

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241205 1430 c	VOA by 8260	Ice/HCl	(3) 40 ml Vial	27754	AL
1431 c	" " (FB)	"	"	"	"
1432 c	NDMA/DMN Bromacil by 607	Ice	(1) 1L Amber	119901	SRL

Continued from page

Read and Understood By

Signed 12.5.2024 Date

Signature 12-6-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-5-2024 Page _____ of _____

Sample Location: ST-3-735

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: U06	Analytical Requirement: L07						Charge Number
Pertinent Notes (if any)										
241205143OC	3	A	4							
1431C FB	3	1	4							
1432C	1			4						

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number
Pertinent Notes (if any)										

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12-5-2024 1500			12-6-24 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Dan Halvorsen present. Weather is clear and warm. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new Teflon hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G1 in use.

Calibrations:

Do Sensor = In 100% Saturated air.
PH Sensor: Using 4, 7, 10 Buffers
Conductivity: Using a 1413 uS/cm STD.
Turbidity: Using a 10 NTU STD.

Initial DTW = 464.70 ft
Final " = 464.75
IDW = 1.5 gal

Parameters (Time)	Temp	Cond	DO	PH	ORP	Turb
241209 1410 c	24.44	975	6.90	7.31	160	0.68
1412 c	24.43	973	6.86	7.30	161	0.66
1414 c	24.44	974	6.91	7.32	161	0.69

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
241209 1418 c	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	27741	ALS
1419 c	" " (FB)	"	"	"	"
1420 c	NDMA LL	Ice	(2) 1 L Amber	119901	SRL
1421 c	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

Signed 12-9-2024 Date

Signed 12-10-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.9.2024 Page _____ of _____

Sample Location: ST-4-481

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	Analytical Requirement: UDMH						Charge Number
										XGMD
241209141 8 C	3	A	Y							
1419 C FB	3	1	Y							
1420 C	1	1		P						
1421 C FB	1	1		P						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12-9-2024 1500			12-16-24 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTET & ROB BURRUS PRESENT. WEATHER IS COLD & HUMID. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM @ 228PSI. SAMPLES WILL BE TAKEN FROM A DEPICTED DISCHARGE TREE @ 207PSI. BUBBLER SET @ 3PSI, STABLE @ 7PSI. CARBOY B-2

PARAMETERS	SAMPLE PARMS.
TIME: 241204 1150B	241204 1230B
PH: 7.57	7.55
TEMP: 9.6 °C	19.8 °C
COND: 1133 uS/cm	11.41 uS/cm
TURB: 1.71 NTU	1.03 NTU
PH PRE: 7.06 - 10.11 (17.5°C)	7.05 - 10.10 (18.3°C)
PH POST: 7.06 - 10.08	7.06 - 10.11

METER LOG
PH/COND: 91
TURB MTR: 6
" STD: 4.95 NTU
" EDG: 4.80 NTU
" LOT#: A3293
" EXP: 12·31

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LAB
241204 1238B	LL 8260	ICE · HCl	3·40ML VIALS	ALS
—— 1240B	" (FB)	"	"	"
—— 1244B	LL NDMA	ICE	1LT AMBER	ALS
—— 1246B	" (FB)	"	"	"
—— 1250B	1,4 DIOXANE	"	250ML AMB.	ALS

Continued from page NA

Read and Understood By

Signed 12·4·24 Date

Signed 12·5·24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.4.24 Page 1 of 1

Sample Location: ST.6.528

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL 2014	1,4 DIOXANE					Charge Number
										XGMD
241204/1238B	3	A	X							
1240B (FB)	3		X							
1244B	1			X						
1246B (FB)	1			X						
1250B	1				X					

Sample Location: ST.6.568

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL 2014	1,4 DIOXANE					Charge Number
										XGMD
241204/1310B	3	A	X							
1312B (FB)	3		X							
1314B	1			X						
1316B (DUP)	1			X						
1318B (FB)	1			X						
1355B (BC)	1			X						
1325B	1				X					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.4.24 2PM			12-5-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AT MONTES & ROB BURROWS PRESENT. WEATHER IS COLD & HUMID. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM @ 22 PSI. SAMPLES WILL BE TAKEN FROM A DEDICATED DISCHARGE TUBE @ 20 PSI. BUBBLER SET @ 3 PSI, STABLE @ 7 PSI. CARRY G-2

PARAMETERS	SAMPLE PARAMS
TIME = 241204/1155B	241204/1300B
PH = 7.65	7.61
TEMP = 19.7 °C	19.8 °C
COND = 1106 uS/cm	1108 uS/cm
TURB = 2.90 NTU	2.09 NTU
PH PRE = 7.00 - 10.10 (17.8°)	7.05 - 10.09 (18.5°)
PH POST = 7.05 - 10.09	7.06 - 10.11

METER ID
PH/COND = 91
TURB MTR = 6
" STD = 4.95 NTU
" RDG = 4.80 NTU
" LOT # = A32493
" EXP = 12.31

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LAB
241204/1310B	LL 8260	ICE-HCL	3-40ML VIALS	ALS
1312B	" (FB)	"	"	"
1314B	LL NAPA	ICE	12T AUGER	SRL
1316B	" (DUP)	"	"	"
1318B	" (FB)	"	"	"
1355B	" (BC)	"	"	"
1325B	1,4 DIOXANE	"	250ML AMB.	ALS

Continued from page NA

Read and Understood By

Signed 12.4.24 Date

B-194

Signed 12-5-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.4.24 Page 1 of 1

Sample Location: ST.6.528

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 2MA	14 DIOXANE					Charge Number
										XGMD
241204 1238B	3	A	x							
1240B (FB)	3		x							
1244B	1			x						
1246B (FB)	1			x						
1250B	1				x					

Sample Location: ST-6-568

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 2MA	14 DIOXANE					Charge Number
										XGMD
241204 1310B	3	A	x							
1312B (FB)	3		x							
1314B	1			x						
1316B (DUP)	1			x						
1318B (FB)	1			x						
1355B (BC)	1			x						
1325B	1				x					

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12.4.24 2PM			12-5-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTES & ROB BURROWS PRESENT. WEATHER IS COLD & CLOUDY. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM @ 228PSI. SAMPLE WILL BE TAKEN FROM A DEDICATED DISCHARGE TUBE @ 207PSI. BUBBLER SET @ 3PSI, STABLE @ 7PSI. CARBOY G.Z.

* PUMP DRY @ 600 PRIOR & GASSED UP VEHICLE PRIOR.

PARAMETERS	SAMPLE PARAMS
TIME = 241205 1120B	241205 1155B
PH = 8.73	8.69
TEMP = 17.3 °C	17.8 °C
COND = 1056 us/cm	1049 us/cm
TURB = 1.29 NTU	1.18 NTU
PH PRE = 7.06 - 10.11 (15.9°C)	7.05 - 10.10 (16.1°C)
PH POST = 7.05 - 10.10	7.04 - 10.11

METER ID
PH/COND : 91
TURB METER : 6
" STD : 4.95 NTU
" AVG : 4.81 NTU
" LOT # : A3293
" EXP : 12.31

SAMPLES

SAMPLE #	ANALYSIS	PRESERVATIVE	CONTAINER	LAB
241205 1200B	LL8260	ICE, HCl	3-40mL VIALS	ALS
241205 1202B	LL8260 (FB)	"	"	"
0730B	LL8260 (TB)	"	"	"
1206B	LL NONA	"	1LT AMBER	"
1208B	" (FB)	"	"	"
0731B	" (TB)	"	"	"
1210B	1,4 DIOXANE	"	250 mL AMB	ALS

Continued from page N6

Read and Understood By

Signed 12-5-24 Date

Signed 12-6-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12·5·24 Page 1 of 1

Sample Location: ST·6·678

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 20MA	1/4 D-OXRE					Charge Number
										XGMD
241205 1200B	3	A	X							
1202B (FB)	3	|	X							
0730B (TB)	3	|	X							
1206B	1	|		X						
1208B (FB)	1	|		X						
0731B (TB)	1	|		X						
1210B	1	|			X					

Sample Location: ST·6·824

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 20MA						Charge Number
										XGMD
241205 1222B	3	A	X							
1224B (FB)	3	|	X							
1230B	1	|		X						
1234B (FB)	1	|		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12·5·24 2PM			12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT ST·6·824 WJ1: ENV.0440

Notebook No. D32#135D

Continued from page NA

All Monitors & BG Background Present. Weather is cold & cloudy. This zone will be purged w/ a Flute System @ 228 psi. Every 15 min. sample will be taken from a discharge tube @ 207 psi. Bubbler set @ 3 psi, stable @ 7 psi. Carboy G-2

Parameters	Sample Parm	NTR ID
Time = 241205 1122B	241205 1215B	pH/ORP: 91
pH = 8.90	8.89	Turb NTR: 6
Temp = 17.8 °C	17.8 °C	" STD = 4.95 NTU
Cond = 948 us/cm	941 us/cm	" BDG = 4.8 NTU
Turb = 1.40 NTU	1.33 NTU	" Lot# = A3243
pH Pre = 7.05-10.11 (15.6°C)	7.06-10.10 (16.2°C)	" Exp = 12-31
pH Post = 7.06-10.13	7.05-10.11	

Samples

Sample #	Analysis	Preservative	Container	Lab
241205 1222B	GC 8260 B	ICE HCl	3-40 mL VIALS	ALS
1224B	" (FB)	"	"	"
1230B	GC NDNH4	ICE	1 LT AMB	JRC
1234B	" (FB)	"	"	"

Continued from page NA

Read and Understood By

12.5.24

B-198

12-6-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12·5·24 Page 1 of 1

Sample Location: ST·6·678

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 20MA	1,4-DIOXANE					Charge Number
										XGMD
241205 1200B	3	A	X							
1202B (FB)	3	|	X							
0730B (TB)	3	|	X							
1206B	1	|		X						
1208B (FB)	1	|		X						
0731B (TB)	1	|		X						
1210B	1	|			X					

Sample Location: ST·6·824

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LL 8260	LL 20MA						Charge Number
										XGMD
241205 1222B	3	A	X							
1224B (FB)	3	|	X							
1230B	1	|		X						
1234B (FB)	1	|		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12·5·24 2PM			12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTES & ROB BURROW PRESENT. WEATHER IS COLD & CLOUDY. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM @ 228 PSI. EVERY 15 MIN. SAMPLES WILL BE TAKEN FROM A DISCHARGE TUBE @ 207 PSI. BUBBLER 3 PSI AND STABLE @ 7 PSI. CAB BOT G-2

PARAMETERS		SAMPLE PARAM		MTR ID	
TIME	: 241205 1206B	241205 1247B		PH/COND	: 91
PH	: 8.71	8.73		TURB MTR	: 6
TEMP	: 17.5 °C	17.9 °C		" STD	: 4.25 NTU
COND	: 1067 US/cm	1071 US/cm		" RDG	: 41.81 NTU
TURB	: 1.66 NTU	1.54 NTU		" LOT#	: A2293
PH PRE	: 7.06-10.11 (15.8°C)	7.05-10.10 (16.2°C)		" EXP	: 12-31
PH POST	: 7.05-10.10	7.04-10.09			

SAMPLES

SAMPLE #	ANALYSIS	PRESERVATIVE	CONTAINER	LAB
241205 1250B	LL 8260	ICE · HCL	3-40 ML VIALS	ACS
1252B	" (FB)	" (FB)	"	"
1256B	LL NDMA	ICE	ICT AMB	SRL
1259B	" (FB)	" (FB)	"	"

Continued from page N/A

Read and Understood By

Signed 12.5.24 Date

B-200

Signed 12-6-24 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12.5.24 Page 1 of 1

Sample Location: ST-6-970

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LL8260	Analytical Requirement: LL1DMA	Charge Number: XGMD
241205 1250B		3	A	X		
1252B	(FB)	3	A	X		
1256B		1	A		X	
1259B	(FB)	1	A		X	

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	12.5.24 2PM		12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Dan Hilvorsen present. Weather is clear and cool. This well will be purged and sampled using a decticated bladder pump. Samples will be collected using a new PFAS Free tubing. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G1 in use.

Calibrations:

DO Sensor = In 100% saturated air.

pH Sensor = Using 4, 7, 10 Buffers

Conductivity = Using a 1413 uS/cm STD.

Turbidity = Using a 10 NTU STD.

Trip Blanks

Sample	Analysis	Preservative	Container	Lot	LAB
241204/1245c	VOA by 8260 LL	HCl	(3) 40 ml Vial	2774	ALS
1246c	VOA by 8260 LL	Ice	(1) 1L Amber	119901	SRL

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb	DTW
241204/1415 c	21.31	1010	6.41	7.26	142	0.36	
1417 c	21.30	1012	6.38	7.23	143	0.39	
1419 c	21.30	1010	6.42	7.24	143	0.35	

SAMPLES

Sample	Analysis	Preservative	Container	Lot	LAB
241204/1425c	VOA by 8260 LL	HCl	(3) 40 ml Vial	2774	ALS
1426c	" " (FB)	"	"	"	"
1427 c	VOA by 8260 LL	Ice	(1) 1L amber	119901	SRL
1428c	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

Signed 12-4-2024 12-5-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-4-2024 Page _____ of _____

Sample Location: WW-1-452

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	VOC	VOA SL						Charge Number
				Analytical Requirement							XGMD
241204/1245c	TB	3	A	X							
1425c		3		X							
1426c	FB	3		X							
1246c	TB	1			X						
1427c		1			X						
1428c	FB	1			X						

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	12-4-2024 1510			12-5-24 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & AL Montes present. Weather is Hazy & Cloudy & Cold. This well will be purged & Sampled using a dedicated Bladder pump. Samples will be Collected using a Teflon discharge Tube. Water Quality parameters will be monitored using a In-Situ Aqua Troll 500. Carboy G-2 in use. As per Craig packer no longer works.

Calibrations:

DO - Cal in 100% Saturated Air.

PH - Cal using 4, 7, 10 Buffers.

Cond - Cal using 1413 us/cm Std.

Turb - Cal using 10 ntu Std.

DTW - 19.36

IDW - 1½ gal.

Pressure - 8.38

Temp - 23.40

Depth - 19.36

Parameters (Time)	Temp (C)	Cond (us/cm)	DO	PH	ORP	Turb (ntus)	PT
1) 24120610 11 A	19.33	828.51	5.00	8.04	181.9	-17	19.
2) ——— 1012A	19.23	827.04	5.00	8.08	184.2	0.45	"
3) ——— 1013A	19.47	832.73	5.02	8.03	186.0	0.25	"

Samples

Samples #	Analysis	Preservative	Containers	Lot #	Lab
24120610 14 A	vom by 8260 L2	HCl/Ice	(3) 40 ml vials	2774	AL
——— 1015A	" " (FB)	" "	(3) " "	" "	" "
——— 1016A	low level vom A	Ice	(2) 1L Amber	01199101J	SRL
——— 1017A	" " (FB)		(2) " "	" "	" "

Continued from page N/A

Read and Understood By

Robert Burrows — 12-6-24

12-9-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-6-24 Page 1 of 1

Sample Location: WW-2-489

Pertinent Notes (if any)

Task Memo - 12757

Sample Number	# of Containers	Sample Matrix*	VOA by 8260 LL	Low Level n-Octane						Charge Number
										XGMO
241206 1014A	3	A	X							↓
1015A (FB)	3	|	X							
1016A	1	|		X						
1017A (FD)	1	↓		X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*								Charge Number

Analytical Requirement

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Robert Burnett	12-6-24 / 2300		[signature]	12-9-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

PROJECT WW-2-664 WJI EAW-0053

Notebook No. D-32 #133 (A)

Continued from page N/A

Robert Burrows & AL Monks present. Weather is Hazy & Cold & Cloudy. This well will be purged & sampled using a dedicated bladder pump. Samples will be Collected using a Teflon Tube. Water Quality parameters will be monitored using a In-Situ Aqua TROll 500. Carboy G-2 in use. As Per Craig Packer we Longe works.

Calibrations:

DO - Cal in 100% Saturated Air.

pH - Cal using 4, 7, 10 Buffers.

Cond - Cal using 1413 us/cm std.

Turb - Cal using 10 ntu std.

PTW - 19.36

TDW - 2.25 gals.

Pressure - 8.38

Temp (C) - 23.40

Depth - 19.36

Parameters (Time)	Temp(C)	Cond(us/cm)	pH	DO	ORP	Turb(ntu)	DTW(ft)
1) 241206 1136 A	19.83	837.43	8.07	4.65	173.0	0.67	19.2
2) ——— 1137 A	19.75	836.51	8.11	4.64	173.9	0.67	" "
3) ——— 1138 A	19.86	839.44	8.08	4.62	176.1	1.11	" "

Samples

Samples #	Analysis	Preservative	Containers	Lot #	Lab
241206 1139 A	VOA by 8260 22	HCl/ICE	(3) 40 ml vials	2774	ALS
——— 1140 B	" " (FB)	" "	(3) " "	" "	" "
——— 1141 A	Low Level NDMA	ICE	(1) 1L Amber	011990-J	SRL
——— 1142 A	" " (FB)	" "	(1) " "	" "	" "

Continued from page N/A

Read and Understood By

B-206

Robert Burrows 12-6-24

Jon Munck 12-9-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12-6-24 Page 1 of 1

Sample Location: NWS-2-664

Pertinent Notes (if any)

TASK memo - 12758

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: voa by 8260 LL	Low Level VOAs						Charge Number: XGMO
241206 1139 A	3	A	X							↓
1140 A (FB)	3		X							
1141 A	1			X						
1142 A (FB)	1	↓		X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Robert Burnett	12-6-24 / 2:00		[signature]	12-9-24 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig Del Ferraro present. Weather is cloudy & cold. This zone will be sampled using 2 triple rinsed, stainless steel sample tubes. Gen. in use. Probe #4951. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241205 1030Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1031Y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRL

Initial Parameters	Final	Meter ID
Time - 241205 1310Y	Time - 241205 1342Y	pH/Cond - 12
pH - 8.79	pH - 8.85	Turb - 7
Temp - 22.3°C	Temp - 22.5°C	u std - 48.8 NTU
Cond - 1111 us/cm	Cond - 1119 us/cm	u rdg - 47.8 NTU
Turb - 1.33 NTU's	Turb - 1.06 NTU's	u lot - A3293
pHpre - 7.06/10.09 (18.3°C)	pHpre - 7.07/10.10 (18.1°C)	u Exp - 12/31/24
pHpost - 7.06/10.10	pHpost - 7.05/10.10	
DTW - 414.86ft.	DTW - 414.96ft.	Buffers Lot Exp
Atmos - 12.57psia	Atmos - 12.59psia	7 CC779993 6/2
	IDW - 1/2 gal.	10 CC783411 8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241205 1340Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1341Y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRL

Runs	1)	2)
	38.88	38.51
	36.75	36.64
	36.73	36.61
	38.74	38.39

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed — 12/5/24 — Date

B-208

Signed — 12-6-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/5/24 Page 1 of 1

Sample Location: WW-3-469

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260 LL	Analytical Requirement: LLNDMA	Charge Number
241205 1030Y (EB)	3	A	✓		XGMD
1031Y (EB)	1	A		✓	"
1340Y	3	A	✓		"
1341Y	1	A		✓	"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig DelTorro	12/5/24 / 1420hrs.	[signature]	12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tim Kondy & Craig Del Ferraro present. Weather is clear & warm. This zone will b sampled using a steam cleaned & triple rinsed, stainless steel sample tube Gen. in use. Probe #2213. Surface checks performed on probe prior to samp

30 Min Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
241204 1350y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1351y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

Initial Parameters
Time - 241205 0855y
PH - 9.07
Temp - 19.8°C
Cond - 1090 us/cm
Turb - 2.66 NTU's
pH pre - 7.14/10.11 (12.2°C)
pH post - 7.15/10.10
DTW - 414.75 ft.
Atmos - 12.60 psia

Final
Time - 241205 1000y
PH - 8.89
Temp - 19.6°C
Cond - 1075 us/cm
Turb - 1.84 NTU's
pH pre - 7.12/10.15 (12.5°C)
pH post - 7.13/10.14
DTW - 414.86 ft.
Atmos - 12.58 psia
IDW - ½ gals.

Meter ID
pH/Cond - 12
Turb - 7
" std - 48.8
" rdg - 48.0
" lot - A3293
" Exp - 12/31/24

Buffers	Lot	Exp
7	CC779793	6/2
10	CC783411	8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
241205 0920y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
* ——— 0921y	*" (MS)*	"	"	"	"
——— 0922y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI
——— 0923y	" (Dupl.)	"	"	"	"

*Probe #2213 had malfunctioned just after EB's on 12/4. Probe #4951 was used to complete this sampling event on 12/5.

Runs	1)	2)	3)
	81.96	81.74	81.66
	79.84	79.93	79.94
	79.83	79.89	79.87
	81.90	81.68	81.60

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed
12/5/24 — Date
B-210
Ken Mundt — Signature
12-6-24 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/4/24 Page 1 of 2

Sample Location: WW-3-569

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Analytical Requirement					Charge Number
241204 1350Y (EB)	3	A	✓							XGMD
1351Y (EB)	1	A		✓						"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Zuno	12/4/24 / 1440hrs.		[signature]	12-5-24 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 12/5/24 Page 1 of 2

Sample Location: WW-3-569

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Charge Number
241205 0920Y	3	A	✓		XGMD
0921Y (MS)	3	A	✓		"
0922Y	1	A		✓	"
0923Y (Dupl.)	1	A		✓	"
					"

Pertinent Notes (if any)

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Pertinent Notes (if any)

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Deltano	12/5/24/1115hrs.			12-6-24 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Craig Del Terraro present. Weather is clear & cold. This well will be purged using a dedicated bladder pump. Samples will be collected using a teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy Gal in use.

Calibrations
DO sensor - calibrated in saturated air.
Cond. sensor - " using 1413 us/cm std.
PH sensor - " " 4, 7, & 10 buffers.
Turb. sensor - " " 20 NTU std.

Parameters(time)	temp(°c)	cond(us/cm)	DO	ORP	PH	Turb(NTU's)	DTW(Ft.)
1) 250114 0945C	23.86	1316.4	4.54	115.4	7.22	0.53	318.77
2) —— 0948C	23.92	1314.0	4.42	118.0	7.24	0.51	318.77
3) —— 0951C	23.93	1312.4	4.40	119.8	7.24	0.43	318.77

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250114 0955C	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
—— 0956C	" (FB)	"	"	"	"
—— 0957C	607/Bromacil	ice	(1) 1L Amber	011990IJ	SRI
—— 0958C	Low Level NDMA	"	"	"	"
—— 0959C	" (FB)	"	"	"	"
—— 1000C	Dioxins/Furans by 8290	"	"	"	"
—— 1001C	Pesticides by 8081B	"	(1) 500ml amber	101121-1BME	ALS
—— 1002C	Herbicides by 8151A	"	"	"	"
—— 1003C	PCB's by 8082A	"	"	"	"
—— 1004C	SVOA by 8270D	"	(2) 500ml ambers	"	"
—— 1005C	1,4 Dioxane by 8270D	"	(1) 250ml amber	071122-1GJ	"
—— 1006C	Phenolics by 9066	ice/H_2SO_4	(1) "	N/A	"
—— 1007C	Total Metals	ice/HNO_3	(2) 125ml poly's	N/A	"
—— 1008C	Anions/Alk.	ice	(2) 250ml poly's	052024-2ERG	"
—— 1009C	TDS by SM2540C	"	(1) 250ml poly	052024-2ERG	"
—— 1010C	Perchlorate by 6850	"	(1) 125ml poly	N/A	"
—— 1011C	NO_2/NO_3 by 353.2	ice/H_2SO_4	(1) 250ml poly	0520724-4EKI	"

Continued from page N/A

Read and Understood By

Craig DelTerraro 1/14/25 Date

B-213

Signed 1-15-25 Date

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250114 1012C	Cyanide by 9012B	ice/NaOH	(1) 250ml poly	N/A	ALS
1013C	Sulfide by 9030	ice/ZA/NaOH	(1) 500ml poly	221239	a
1014C	Total Metals (FB)	ice/HNO3	(2) 125ml poly's	N/A	u

Initial DTW = 318.65 ft. Total gallons purged: 0

Continued from page 86

Craig DelZuno Signed 1/14/25 Date

Read and Understood By

Pam Mundt 1-15-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/14/25 Page 1 of 2

Sample Location: 100-F-358

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	607	LLNDMA	Dioxins Furans	Pesticides			Charge Number
2501140955C		3	A	✓							XGMD
0956C (FB)		3	A	✓							"
0957C		1	A		✓						"
0958C		1	A			✓					"
0959C (FB)		1	A			✓					"
1000C		1	A				✓				"
1001C		1	A					✓			"

Sample Location: 100-F-358

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: Herbicides	PCB's	SVOA	Dioxane	Phenolics	Total Metals	Anions/Alk.	Charge Number
2501141002C		1	A	✓							XGMD
1003C		1	A		✓						"
1004C		2	A			✓					"
1005C		1	A				✓				"
1006C		1	A					✓			"
1007C		2	A						✓		"
1008C		2	A							✓	"

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Deltzeud	1/14/25/1100hrs.			1-15-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/14/25 Page 2 of 2

Sample Location: 100-F-358

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	TDS	Perchlorate	NO_2/NO_3	Cyanide	Sulfide	Total Metals		Charge Number
250114 1009C	1	A	✓							XGMD
—— 1010C	1	A		✓						u
—— 1011C	1	A			✓					u
—— 1012C	1	A				✓				u
—— 1013C	1	A					✓			u
—— 1014C (FB)	2	A						✓		u

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelTorro	1/14/25/1100hrs.		[signature]	1-15-25/0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Robert Burrows & Craig Del Ferraro present. Weather is clear & cool. This well will be purged using a dedicated bladder pump. Samples will be collected using Teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G1 in use.

Calibrations
DO sensor - calibrated in 100% saturation.
Cond. Sensor - " using 1413 us/cm std.
PH Sensor - " " 4, 7, & 10 buffers.
Turb. sensor - " " 20 NTU std.

Parameters (time)	temp (°c)	cond (us/cm)	DO	ORP	PH	Turb (NTU's)	DTW (ft.)
250114 1405C	20.27	1047.9	2.92	153.1	7.30	0.25	79.12
" 1408C	20.23	1049.3	2.88	155.6	7.32	0.22	79.12
" 1411C	20.28	1052.0	2.80	156.8	7.33	0.32	79.12

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250114 1415C	VOA by 8260 LL	ice/HCl	(3) 40ml vials	2774	ALS
" 1416C	" (FB)	"	"	"	"
" 1417C	607/Bromacil	ice	(1) 1L Amber	0119901I	SRI
" 1418C	" (FB)	"	"	"	"
" 1419C	Low Level NDMA	"	"	"	"
" 1420C	" (FB)	"	"	"	"
" 1421C	Dioxins/Furans by 8290	"	"	"	"
" 1422C	Pesticides by 8081B	"	(1) 500ml amber	101121-1BME	ALS
" 1423C	Herbicides by 8151A	"	"	"	"
" 1424C	PCB's by 8082A	"	"	"	"
" 1425C	SVOA by 8270D	"	(2) 500ml amber*	"	"
" 1426C	1,4 Dioxane by 8270D	"	(1) 250ml amber	071122-1GT	"
" 1427C	Phenolics by 9066	ice/H_2SO_4	"	N/A	"
" 1428C	Total Metals	ice/HNO_3	(2) 125ml polys	"	"
" 1429C	Anions/Alk.	ice	(2) 250ml polys	052024-2ERG	"
" 1430C	TDS by SM2540C	"	(1) 250ml poly	"	"
" 1431C	Perchlorate by 6850	"	(1) 125ml poly	N/A	"

Continued from page N/A

Read and Understood By

Craig Del Ferraro 1/14/25 B-217 Tom Munck 1-15-25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250114 1432C	NO_2/NO_3 by 353.2	ice/H_2SO_4	(1) 250ml poly	052724-4EKI	AL
——— 1433C	Cyanide by 9012B	ice/NaOH	(1) 125ml poly	N/A	"
——— 1434C	Sulfide by 9030	ice/ZA/NaOH	(1) 500ml poly	221239	"

Initial DTW: 79.10ft. Total gallons purged: 1

Continued from page 88

Read and Understood By

Craig Del Terzo 1/14/25 B-218 Lori Munch 1-15-25
Signed

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/14/25 Page 1 of 2

Sample Location: 100-G-223

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: 8260 LL	607	LL NDMA	Dioxins/Furans				Charge Number
250114141 5C		3	A	✓							XGMD
1416C (FB)		3	A	✓							u
1417C		1	A		✓						u
1418C (FB)		1	A		✓						u
1419C		1	A			✓					u
1420C (FB)		1	A			✓					u
1421C		1	A				✓				u

Sample Location: 100-G-223

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: Pesticides	Herbicides	PCB's	SVOA	Dioxane	Phenolics	Total Metals	Charge Number
250114142 2C		1	A	✓							XGMD
1423C		1	A		✓						u
1424C		1	A			✓					u
1425C		2	A				✓				u
1426C		1	A					✓			u
1427C		1	A						✓		u
1428C		2	A							✓	u

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelTerzo	1/14/25/1510hrs.		[signature]	1-15-25/0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/14/25 Page 2 of 2

Sample Location: 100-G-223

Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: Anions/Alk	TDS	Perchlorate	NO3/NO2	Cyanide	Sulfide		Charge Number
Sample Number										
250114 1429C	2	A	✓							XGMD
—— 1430C	1	A		✓						"
—— 1431C	1	A			✓					"
—— 1432C	1	A				✓				"
—— 1433C	1	A					✓			"
—— 1434C	1	A						✓		"

Sample Location:

Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number
Sample Number										

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DeLeeuw	1/14/25/1510hrs.		[signature]	1-15-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

ROBERT BURROWS & TONY TORREZ PRESENT. THE WEATHER IS CLEAR & COLD. THIS WELL WILL BE MODIFIED SAMPLED WITH A DEDICATED BLADDER PUMP. SAMPLES COLLECTED FROM A TEFLON DISCHARGE TUBE. PARAMETERS COLLECTED FROM A HYDITH AQUA TROLL 500. CARBOY G2.

DTW 89.45 Ft

CALIBRATIONS
DO SENSOR CAL'D IN 100% SATURATION
COND SENSOR CAL'D IN 1413 µs/cm
TURB CAL'D WITH 4 ZONTH STANDARD.
pH CAL'D WITH 4, 7, 10, BUFFERS.

PARAMETERS

SAMPLE #		pH	TEMP	COND	ORP	DO	TURB
250115	0910c	8.19	16.32	1,022.0	174.3	7.86	0.65
—	0911c	8.18	16.32	1,022.8	174.7	7.77	0.78
—	0912c	8.17	16.32	1,024.5	174.5	7.02	0.85

SAMPLES.

SAMPLE #		ANALYSIS	PRESERV	CONT	LAB
250115	0915c	8260LL	ICE/HCl	(3) 40ml VOAs	ALS
—	0916c	11 (FB)	11	11	11
—	0917c	C607	ICE	(1) LT Amber	SVL
—	0918c	CLNDMA	11	11	11
—	0919c	11 (FB)	11	11	11
—	0920c	PESTICIDES	11	(1) 500ml Amber	ALS
—	0921c	DIOXINS/FURANS	11	11	SRL
—	0922c	HERBICIDES	11	11	ALS
—	0923c	SVOA SIMS	11	(2) 250ml Amber	11
—	0924c	8270	11	(2) 500ml Amber	11
—	0925c	PHENOLICS	ICE/H_2SO_4	(1) 250ml Amber	11
—	0926c	TOTAL METALS	ICE/HNO3	(2) 125ml poly	11
—	0927c	ANIONS/ALK	ICE	11	11
—	0928c	TDS	11	(1) 250ml poly	11
—	0929c	PERCHLORATE	11	(1) 125ml poly	11
—	0930c	NO2/NO3	11	(1) 250ml poly	11
—					

Continued from page

Read and Understood By

1-15-25 Date

B-221

1-16-25 Date

Samples Cont

Sample #	Analysis	Preserv	Cont	Lab
250115 0531c	Cyanide	Ice/NaOH	(1) 125ml poly	ACS
" 0532c	Sulfide	Ice/Zn/NaOH	(1) 250 ml poly	"
" 0533c	PCB's	Ice	(1) 500ml Amber	"

Continued from page

Read and Understood By

J-B-222

1-15-25 Signed Date

Peter Mundt Signed 1-16-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-25 Page 1 of 2

Sample Location: 300.F.175

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	8260C	607	CYANIDE	PESTICIDES	DIOXINFURANS			Charge Number
										XGMD
250115 0915c	3	A	X							
0916c (FB)	3		X							
0917c	1			X						
0918c	1				X					
~~DUP~~ 0919c (FB)	1				X					
0920c	1					X				
0921c	1						X			

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	HERBICIDES	SUGARS-NS	PHENOLICS	TOTALMEAS	ANIONS/DBP	TDS	PERCHLORATE	Charge Number
										XGMD
0922c	1		X							
0923c	1			X						
0925c	2				X					
0926c	2					X				
0927c	1						X			
0928c	1							X		
0929c	1								X	

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-15-25 / 1100			1-16-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-25 Page 2 of 2

Sample Location: 300 F-175

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	SVOA PAHs	NO2/NO3	Cyanide	Sulfide	PCBs			Charge Number
250115 0924 C	2	A	X							XGMD
— 0930 C	1			X						
— 0931 C	1				X					
— 0932 C	1					X				
— 0933 C	1						X			

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
J. Dg	1-15-25 / 1100		[signature]	1-16-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

PROJECT 400-A-151 ENV-0053

Notebook No. D32 #136(A)

Continued from page

Craig Del Ferraro & Dan Halvorsen present. Weather is clear and warm. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a PFAS free tubing. Water quality parameters will be monitored using an In-Situ AquaTroll 500. Cardboy 63 in use.

Calibrations:

Do Sensor: In 100% Saturated Air.

PH Sensor: using 4, 7, 10 Buffers

Conductivity: using a 1413 us/cm STD.

Turbidity: using a 10 NTU STD.

Parameters (Time)	Temp	Cond	Do	PH	ORP	Turb
250102 1350A	24.92	1238.9	4.32	7.32	169.3	1.79
1353A	25.02	1236.4	4.24	7.30	170.8	1.51
1356A	25.13	1233.9	4.08	7.30	172.0	1.38

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250102 1400A	VOA by 8260	Ice/HCl	(3) 40 ml Vial		ALS
1401A	" " (Dup)	"	"		"
1402A	" " (FB)	"	"		"
1403A	NDMA/DMN Bromacil by 537	Ice	(1) 1L Amber		SRL
1404A	Total Metals	Ice/HNO3	(2) 125 ml Poly		ALS
1405A	NO3/NO3	Ice/H2SO4	(1) 250 ml Poly		"

Initial DTW: N/A

Total gallons purged: 2

Transducer readings:

pressure: 3.46 psi

Temp: 20.92 °C

depth: 7.98 Ft.

Continued from page

Read and Understood By

B-225

Signed — Date: 1-2-2025

Signed — Date: 1.6.25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/2/25 Page 1 of 1

Sample Location: 400-A-151

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	607	Total Metals	NO2/NO3				Charge Number
250102 1400A	3	A	✓							XGMD
1401A (Dupl.)	3	A	✓							"
1402A (FB)	3	A	✓							"
1403A	1	A		✓						"
1404A	2	A			✓					"
1405A	1	A				✓				"

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Tredici	1/2/25 / 1445hrs.		[signature]	1-6-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & AL Montes present. Weather is clear & cool (38°F). This well was bailed dry the day before the sampling eve. Samples collected using a dedicated Poly bailer. Water quality ~~samples~~ Parameters taken prior to sampling.

Parameters

Time - 250128 0945C
PH - 8.36
Temp - 19.2°C
Cond - 2.23 mS/cm
Turb - 5.55 NTU's
PH pre - 7.05, 10.01 (17.3°C)
PH post - " "
DTW - 186.20 ft.
Carbog - 61

Meter I.D

PH/cond - 12
Turb - 7
" STD - 47.4
" RDG - 47.0
" Lot - A3a93
" EXP - 1/31/25

Samples

Sample	Analysis	Preserv	Cont	Lot	Lab
250128 0950C	8260	Ice/HCl	(3) 40mL vials	2774	ALS
——— 0951C	" (FB)	"	"	"	"
——— 0952C	607	Ice	(1) 1L Amber	01190115	SRI
——— 0953C	" (FB)	"	"	"	ALS
——— 0954C	SVOA 8270D	"	(2) 500mL Amber	101121 1BME	"
——— 0955C	T. Metals	Ice/HNO3	(2) 125mL Poly	NA	"
——— 0956C	" (FB)	"	"	"	"
——— 0957C	Anions/ALK	Ice/conc H2SO4	(2) 250mL Poly	052024ZERG	"
——— 0958C	TDS	Ice	(1) "	09 1823 2APD	"
——— 0959C	Perchlorate	Ice/1:1 H2SO4	(1) 125mL Poly	081224 2ERD	"
——— 1000C	NO2, NO3	Ice/H2SO4	(1) 250mL Poly	050624 4EK1	"

Continued from page

Read and Understood By

Matt Garcia
Signed

1/28/25
Date

B-227

Ian Munde 1-29-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/28/25 Page 1 of 1

Sample Location: 600A-004-GW

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	8260	6007	5004	T. Metals				Charge Number
250128 0950C	3	A	X							XGMD
0951C (FB)	3		X							
0952C	1			X						
0953C (FB)	1			X						
0954C	2				X					
0955C	2					X				
0956C (FB)	2					X				

Sample Location: 600-A-004-GW

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Anions/Alk	TDS	Perchlorate	NO_2, NO_3				Charge Number
250128 0957C	2	A	X							XGMD
0958C	1			X						
0959C	1				X					
1000C	1					X				

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Matt Gross	1/28/25 1100hrs			1-29-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & AL Montes Present. Weather is clear & cool. well was purged dry using bennett pump. Sampled using dedicated bailer. Water quality Parameters taken Prior to Sampling. Carboy G-1

Parameters

Time 250127095 5A
PH - 8.87
Temp - 11.8°C
Cond - 1840 us/cm
PH Pre - 7.03, 10.01
PH post - 7.05, 10.01
Gallons Purged - 7
Carboy - G1
DTW - 145.10-ft

Samples

Sample	Analysis	Preserv.	Cont.	Lot	Lab
250127 1000A	8260	Ice/HCL	(3) 40mL vials	2774	ALS
——— 1001A	" (Dup)	"	"	"	"
——— 1002A	" (FB)	"	"	"	"
——— 1003A	T. metals	Ice/HNO^3	(2) 125mL Poly	NA	"
——— 1004A	Chloride	Ice	(1) 125mL Poly	NA	"
——— 1005A	$NO^2 NO^3$	Ice/H^2SO^4	(1) 250mL Poly	093024	"

Continued from page

Read and Understood By

Matt G 1/27/25 Date

B-229

Signed Date 1-28-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1·27·25 Page 1 of 1

Sample Location: 600·G·138

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260	TOTAL STM	CHLOR-DE	202 203				Charge Number
250127 1000A	3	A	X							XGMD
1001A DUP	3	A	X							
1002A FB	3	A	X							
1003A	2	A		X						
1004A	1	A			X					
1005A	1	A				X				

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	1·27·25 1100		1-28-25 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be purged and taken from dedicated sampling port. carboy "Pinefront"

Parameters	Meter ID.	Buffers	LOT #	Exp
Time 250107/1235	PH/cond-Pinefront	7	CC779793	9/25
PH 7.73	Turb-Pinefront	10	CC783411	8/25
Temp 22.9°C	"STD	9.79 NTU		
cond 1040uS/cm	"RDG	9.80 NTU		
Turb 0.11 NTU	"LOT # - N/A			
PhPre 7.00-10.00 (17.0°C)	"Exp 7/31/25			
PhPost -7.02/10.02				

Samples

Sample #	Analysis	Pres	LOT #	LAB cont.
250107/1240	VOA by 8260(11) (FB)	ICE, HCl	N/A	ALS (3) 40 mL vial
" NO5	"	"	"	"
" 1241	NDMA/DMN/Bromate by 521	ICE	"	SWR (1) 125 mL amber
" 1242	LC MDMA	"	"	"
" 1243	"(FB)	"	"	"
" 1244	SVOA SIM	"	"	ALS (1) 2.5 gal amber

Continued from page N/A

Read and Understood By

7 JAN 2025 — Date

Signed

1-7-25 — Date

B-231

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-7-25 Page 1 of 1

Sample Location: B650 - Eff-1

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 LOW LEVEL NDMA	TOTAL NITRATE ANIONS / ALK	TDS SM2540C	Charge Number: XGMD
250107 1240	3	A		X				"
— 1105 (FB)	3	A		X				"
— 1241	1	A			X			"
— 1242	1	A				X		"
— 1243 (FB)	1	A				X		"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 1,4 DIOXANE 8270					Charge Number: XGMD
250107 1244	1	A			X					"

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1-7-25 (1400)		[signature]	1-8-25 / 0915

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Calleja & Tim Moore present. These samples will be purged then taken from a dedicated sampling port. Carboy: Pine Front

Parameters	meter ID	Buffers	Lot #	Exp
Time 250107/1245	pH/cond-Pine Front 7		CC775793	9/26
pH 7.14	Turb-Pine Front 10		CC783411	8/26
Temp 23.3 C	STD 9.78 NTU			
cond 1017 uS/cm	RAD 9.77 NTU			
Turb 0.15 NTU	LOT # N/A			
ph pt 6.98-10.00 (18.1C)	Exp-PT 1/31/25			
ph pt 7.02/10.02				

Samples

Sample #	Analysis	Pres	Lot #	Lab cont.
250107/1250	VOA by 8260	ICE; HCL	N/A	A(s (3) 40mL Vial
1251	" (FB)	"	"	"
1252	NOMA/DMN/Biology	ICE	"	SVNI (1) C4 amber
1253	SVOA-SIM	"	"	AES (1) 250mL Amber

Continued from page N/A

Read and Understood By

Signed — Date: 7 JAN 2025 — Signed — Date: 1-7-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-7-25 Page 1 of 2

Sample Location: B650-INF-1

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/ BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS	ANIONS / ALK	TDS SM2540C	Charge Number
250107 1250	3	A	X						XGMD
— 1251 (FB)	3	A	X						"
— 1252	1	A			X				"

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 1,4 DIOXANE 8270					Charge Number
250107 1253	1	A			X					XGMD
										"

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1-7-25 (1400)		[signature]	1-8-25 / 0915

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. Those samples will Be pulled and taken from dedicated sampling port. Carboy "Pine Front"

Parameters	meter ID	Buffers	LOT #	Exp
Time 250107/1306	pH/cond-Pine Front	CC 747793	6/25	
pH 7.70	Turb-Pine Front	CC 783411	8/25	
Temp 20.5 °C	"STD 9.79 NTU			
Cond 1035 uS/cm	"RDG 9.81 NTU			
Turb 0.14 NTU	"LOT # - N/A			
pH pre 6.98-10.00 (15.6 °C)	"Exp - 7/31/25			
pH post 7.02/10.02				

Samples

Sample #	Analysis	Pres	LOT #	LAB	cont
250107/1312	VOA by 8260 (CL)	ICE; HCl (pH<2)	N/A	ALS	(3) 40 mL Vial
1313	"	"	"	"	"
1314	NDMA/DMN/Biobyp607	ICE	SWRI	N/A	(1) 1 L Amber
1315	4C NDMA	"	"	"	"
1316	" (FB)	"	"	"	"
1317	SVOA_Sim	"	ALS	"	(1) 250 mL Amber
1318	TOTAL Metals	ICE/HNO3	"	"	(1) 125 mL Poly
1319	" (Dup)	ICE/HNO3	"	"	"
1320	ANIONS/AIK	ICE	"	"	"
1321	TDS	"	"	"	(1) 125 mL Poly
1322	Perchlorate	"	"	"	"
1323	NO2/NO3	"	"	"	"

Continued from page N/A

Read and Understood By

7 JAN 2025 Date

Signed

1-7-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-7-25 Page 1 of 1

Sample Location: B655 - OFF - 2

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMNP/BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS	ANIONS / ALK	TDS SM2540C	Charge Number
250107 1312	3	A			X					XGMD
1313 (FB)	3	A			X					"
1314	1	A				X				"
1315	1	A					X			"
1316 (FB)	1	A					X			"
1318	2	A						X		"
1319 (DUP)	2	A						X		
1320	2	A							X	"
1321	1	A							X	

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 1,4 DIOXANE 8270	Charge Number
250107 1317	1	A				X	XGMD
1322	1	A		X			"
1323	1	A			X		"

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-7-25 (1400)	[signature]	1-8-25 / 0915

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. These samples will be pulled and taken from a dedicated sampling port IN bldg 655, carboy "Plume from"

Parameters	meter ID	Buffers	Lot #	Exp
Time 250107 1332	pH/cond - Plume from	7	CC779793	6/25
pH 6.93	Turb - Plume from	10	CC783411	8/25
Temp 21.7 C	" STD - 9.79			
Cond 1088 uS/cm	" RDG - 9.77			
Turb 0.41 NTU	" Lot # N/A			
PH PRE 7.00-10.00 (18.9 C)	" Exp 1/31/25			
PH POST - 7.02 / 10.02				

Sample #	Analysis	Samples Pres	Lot #	LAB CONT
250107 1337	VOA by 8260	ICE; HCl	N/A	ALS (3) 40 mL vial
250107 1338	" (Dup)	"	"	"
250107 1106	" (FB)	"	"	"
— 1339	NDMA IDMN/Br by 607	ICE	"	SWRI (1) C4 amber
— 1340	SVOA sim	"	"	ALS (1) 250 mL amber
— 1341	TOTAL Metals	ICE/HNO3	"	" (2) 125 mL poly
— 1342	ANIONS/ALK	ICE	"	(2) 125 mL poly
— 1343	TDS	"	"	"
— 1344	Perchlorate	"	"	"
— 1345	NO2/NO3	"	"	"

Continued from page N/A

Signed 1-7-25 Date

Read and Understood By

1-7-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-7-25 Page 2 of 2

Sample Location: 1655-INF-2

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/1,4 BROMACIL LOW LEVEL NDMA	TOTAL NITRATE	ANIONS/AMM	TDS SM2540C	Charge Number
250107 1357	3	A	X						XGMD
— 1358 (Dup)	3	A	X						"
— 1106 (FB)	3	A	X						"
— 1339	1	A			X				"
— 1340	2	A					X		"
— 1342	2	A						X	"
— 1343	1	A						X	"

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
250107 1340	1	A			X					XGMD
— 1344	1	A	X							"
— 1345	1	A		X						"

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-7-25 (1358)	[signature]	1-8-25 / 0915

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Tony Torrez & Dan Halvorsen present. Weather is clear and cold. This well will be purged and sampled using a dedicated bladder pump. Samples will be collected using a new PFAS free tubing. Water quality parameters will be monitored using an In-Situ AquaTroll 500. Carboy G3 in use.

Calibrations:

DO Sensor = In 100% saturated air
pH sensor = using 4, 7, 10 Buffers
Conductivity = using a 1413 µS/cm STD
Turbidity = using a 10 NTU STD.

Parameters (Time)	Temp	Cond	DO	pH	ORP	Turb
250102 1006 A	19.99	1388	2.90	7.54	97.4	0.58
1008 A	19.98	1385	2.91	7.49	97.2	0.62
1010 A	19.98	1386	2.91	7.51	97.2	0.56

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250102 1015 A	VOCs by 8260	Ice/HCl	(3) 40 ml Vial		ALS
1016 A	" " (FB)	"	"		"
1017 A	NDMA/DMN Bromacil by 1,607	Ice	(1) 1L Amber		SR
1018 A	" " (MS)	"	"		"
1019 A	NDMA LL	"	"		"
1020 A	" " (FB)	"	"		"
1021 A	SVOCs by 8270D	"	(2) 500 ml Amber		ALS
1022 A	GRO by 8015D	Ice/HCl	(3) 40 ml Vial		"
1023 A	Total metals	Ice/HNO3	(2) 125 ml Poly		"
1024 A	Anions/DIK	Ice	(2) 250 ml Poly		"
1025 A	TDS	"	(1) "		"
1026 A	DRO	"	(1) 500 ml Amber		"
1027 A	Perchlorate	"	(1) 125 ml Poly		"
1028 A	NO2/NO3	Ice/H2SO4	(1) 250 ml Poly		"

Continued from page

Read and Understood By

Signed 1-2-2025 Date

Signed 1-6-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-2-2025 Page _____ of _____

Sample Location: BLM-6-4188

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: UOA	607	200.8 LL	300.0				Charge Number
250102 1015 A	3	A	X							XGMD
1016 A FB	3		X							
1017 A	1			X						
1018 A MS	1			X						
1019 A	1				X					
1020 A	1				X					
1021 A	2					X				

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 6020	300.0 Cl	200.8 Cd/Pb/Ni	TDS	DRO	Perchlorate	300.0 NO3	Charge Number
250102 1022 A	3	A	X							XGMD
1023 A	2			X						
1024 A	2				X					
1025 A	1					X				
1026 A	1						X			
1027 A	1							X		
1028 A	1								X	

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1-2-2025 1100		[signature]	1-6-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tony Torrez & Craig Del Ferraro present. Weather is clear & cool. This well will be purged using a dedicated bladder pump. Samples will be collected using a teflon discharge hose. Water quality parameters will be monitored using an In-Situ Aqua Troll 500. Carboy G2 in use.

Calibrations

DO sensor - calibrated in 100% saturation.
Cond. sensor - " using 1413 us/cm std.
PH sensor - " " 4, 7, & 10 ~~stds.~~ buffers.
Turb sensor - " " 20 NTU std.

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
250103 0800A	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0801A	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

Parameters (time)	temp (°C)	cond (us/cm)	PH	ORP	DO	Turb (NTU)	DTW (ft.)
1) 250103 0945A	19.93	966.7	7.36	153.5	6.97	1.09	498.56
2) ——— 0948A	19.94	952.2	7.36	156.9	7.06	0.98	498.56
3) ——— 0951A	19.99	962.8	7.35	159.9	7.01	0.92	498.56

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250103 1000A	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1001A	" (FB)	"	"	"	"
——— 1002A	607/Bromacil	ice	(1) 1L Amber	011990IJ	SRI
——— 1003A	Low Level NDMA	"	"	"	"
——— 1004A	" (FB)	"	"	"	"
——— 1005A	Total Metals	ice/HNO3	(2) 125ml polys	N/A	ALS

Initial DTW: 498.45ft. Total gallons purged: 2

Continued from page N/A

Read and Understood By

Craig Del Ferro 1/3/25 B-241 Jon Munde 1-6-25
Signed Date Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/3/25 Page 1 of 1

Sample Location: BLM-10-517

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	607	LLNDMA					Charge Number
250103080OA (TB)	3	A	✓							XGMD
0801A (TB)	1	A			✓					"
1000A	3	A	✓							"
1001A (FB)	3	A	✓							"
1002A	1	A		✓						"
1003A	1	A			✓					"
1004A (FB)	1	A			✓					"

Sample Location: BLM-10-517

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: Total Metals							Charge Number
250103100SA	2	A	✓							XGMD

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Oltmann	1/3/25 / 1055hrs.		[signature]	1-6-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT Blm·15-305

Notebook No. D32 #134(c) 85

Continued from page _____

Robert Burrows & Tony Torres present. The weather is clear & cool. This well will be purged & sampled using a Dedicated Teflon bladder pump. Samples collected from a Teflon discharge tube. Params collected from an Aquatech 500. Canboy 6-2.

Calibrations

DO sensor cal'd in 100% saturation
Cond sensor cal'd in 1413 µS/cm standard
pH sensor cal'd in 4, 7, 10 buffers.
Turb sensor cal'd in 20 NTU's standard

Params

Sample #		pH	Cond	DO	ORP	Temp	Turb
25013	1350c	7.61	1125.8	0.38	127.7	21.48	2.58
———	1351c	7.61	1131.7	6.34	129.4	21.49	2.43
———	1352c	7.61	1127.8	0.34	126.9	21.48	2.45

Samples

Sample #		Analysis	Preserv	Cont	Lab
25013	1400c	8260	Ice/HCl	(3) 40ml VOAs	ALS
———	1401c	" (FB)	"	"	"
———	1402c	607	Ice	(1) 1 Liter	SRF
———	1403c	Total Metals	Ice/HNO3	(2) 125 ml poly	ALS
———	1404c	Anions/Alk	Ice	(2) 250 ml poly	"
———	1405c	TDS	"	(1) 250 ml poly	"
———	1406c	Perchlorate	"	(1) 125 ml poly	"
———	1407c	NH2/HNO3	Ice/H2SO4	(1) 250 ml poly	"

Continued from page

Read and Understood By

Signed: [signature] Date: 1-13-26 B-243 Print: [signature] Date: 1-14-26

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-13-25 Page 1 of 1

Sample Location: B/m. 15-305

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	8260	607	Total Metals	Anions / Alk	TDS	Perchlorate	NO2/NO3	Charge Number
										XGMJ
250113 1400c	3	A	X							
— 1401c (FB)	3		X							
— 1402	1			X						
— 1403	2				X					
— 1404	2					X				
— 1405	1						X	X		
— 1406	1	—						X		

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	NO2/NO3							Charge Number
— 1407	1	A	X							

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-13-25/1500			1-14-25 /0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

ROBERT BURROWS & TONY TORREZ PRESENT. THE WEATHER IS CLEAR & COLD. THIS WELL WILL BE PURGED & SAMPLED USING A DEDICATED TEFLON BLADDER PUMP. SAMPLES COLLECTED FROM A TEFLON DISCHARGE TUBE. PARAMS COLLECTED FROM A AQUA TROLL 500, GARDY 6-2

CALIBRATIONS
DO SENSOR CAL'D IN 100% SATURATION
pH SENSOR CAL'D IN 4, 7, 10 BUFFERS
COND SENSOR CAL'D IN 1413 STANDARD
TURB SENSOR CAL'D WITH A 20 NTU STANDARD

PARAMS

SAMPLE #	TEMP	COND	pH	DO	ORP	TURB
250118 1020C	19.48	1,061.6	7.38	6.86	195.9	0.86
1021C	19.45	1,061.5	7.38	6.87	196.1	0.91
1022C	19.43	1,061.6	7.38	6.85	195.7	0.85

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	COUNT	CAL
250118 1030C	8260	ICE/HCl	(3) 40ml VIALS	ALS
1031C	" (BTEX) (FB)	"	"	"
1032C	(60)	ICE	(1) 1L AMBER	SRL
1033C	" (ORP)	"	"	"
1034C	TOTAL METALS	ICE/HNO3	(2) 125ml POLY	ALS
1035C	ANIONS/ALK	ICE	"	"
1036C	TDS	"	(1) 250ml POLY	"
1037A	PERCHLORATE	"	(1) 125ml POLY	"
1038A	NO_2/NO_3	ICE/H_2SO_4	(1) 250ml POLY	"

Continued from page

Read and Understood By

T. [illegible] 1.13.25 Pam Mundt 1-14-24

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-13-25 Page 1 of 1

Sample Location: B/m 17.550

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	8260	6057	TOTAL METALS	ANIONS	TDS			Charge Number
			Analytical Requirement							XGMD
250113 1030c	3	A	X							
1031c (FB)	3		X	X						
1032c	1			X						
1033c (Dup)	1			X						
1034c	2				X					
1035c	2					X				
1036c	1						X			

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	PERCHLORATES	NO2/NO3						Charge Number
			Analytical Requirement							
1037c	1	A	X							
1038c	1	A		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. Dg	1-13-25/1100			1-14-25/0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

ROBERT BURROWS & TONY TORRES PRESENT THE WEATHER IS CLEAR & COLD. THIS ZONE WILL BE PURGED & SAMPLED USING A DEDICATED TEFLON BLADDER PUMP PARAMETERS COLLECTED FROM A IN SITU AQUA TROLL 500. CANBOY 6-1

DTW - 387.90 FT

CALIBRATIONS
DO SENSOR CAL'D IN 100% SATURATION
COND SENSOR CAL'D IN 1413 µS/cm STANDARD
pH SENSOR CAL'D IN 4, 7, 10 BUFFERS
TURB SENSOR CAL'D WITH A 20 NTU STANDARD

PARAMETERS

SAMPLE #	TEMP	DO	ORP	pH	COND	TURB
250117 0925B	19.70	5.88	194.2	7.42	894.2	1.53
— 0926B	19.70	5.60	195.1	7.42	895.0	1.40
— 0927B	19.70	5.35	195.2	7.42	895.3	1.28

SAMPLES

SAMPLE #	ANALYSIS	PRESERV.	CONT	LAB
250117 0930B	8260	ICE/HCl	(3) 40 ml VIALS	ALS
— 0931B	" (FB)	"	"	"
— 0932B	607	ICE	(1) LT AMBER	SRL
— 0933B	" (FB) (Dup)	"	"	"
— 0934B	TOTAL METALS	ICE/HNO_3	(2) 125ml poly	ALS
— 0935B	ANIONS/ALK	ICE	(2) 250ml poly	"
— 0936B	TDS	"	(1) "	"
— 0937B	PERCHLORATE	"	(1) 125ml poly	"
— 0938B	NO_2/NO_3	ICE/H_2SO_4	(1) 250ml poly	"

BLIND CONTROLS

SAMPLE #	ANALYSIS	PRESERV.	CONT	LOT #	LAB
250117 1000B	8260	ICE/HCl	(3) 40 ml VIALS	25B60037A	ALS
— 1001B	607	ICE	(1) LT AMBER	25B60037B	SRL
— 1002B	TOTAL METALS	ICE/HNO_3	(2) 125ml poly	25B60037C	ALS

Continued from page

Read and Understood By

T. [signature] 1-17-25 Jere Munds 1-21-25
Signed Date Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-17-25 Page 1 of 1

Sample Location: Blm·18·430

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	8260	607	METALS	DN·GNS/ALK	TDS			Charge Number
										XGMD
250117 0930B	3		X							
0931B	3		X							
0932B	1			X						
0933B	1			X						
0934B	2				X					
0935B	2					X				
0936B	1						X			

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	PFAS 1633	8270 NCI/SIM	8260	607	METALS			Charge Number
										XGMD
0937B	1	A	X							
0938	3			X						
1000B	3				X					
1001B	2					X				
1002B	2						X			

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1-17-25/1100		[signature]	1-21-25/0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

0

PROJECT JER-1-483 FLUTe ENV-0110

Notebook No. D32 #135(B)

Continued from page _____

Matt Garcia & Dan Halvorsen present. Weather is Clear and Cold. This Zone will be purged and sampled using a FLUTe System. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes at a minimum of 4 gallons purged prior to sampling. Purge pressure set at 248 psi, Sample pressure at 227 psi, Bubbler set at 3 psi, stable at 5 psi. First 50 mL will be discarded. Cerdog 63 in use.

Parameters	Sample Parameters	Meter ID
me = 250114/1235 B	250114/1248 B	pH/Cond = 12
H = 8.14	8.17	Turb = 7
MP = 17.2°C	17.1	SID = 47.4
ND = 1053 us/cm	1051	RDG = 4.7.7
RB = 1.10 ntu's	1.08	Lot = A3293
Pre = 7.14-10.18	7.14-10.18	Exp = 1/28
Pst = 7.14-10.17	7.14-10.17	

SAMPLES

Sample #	Analysis	Preservative	Container	Lot	LAB
250114/1252 D	VOA by 8260 LL	Iced (HCl)	(3) 40 ml Vial	2774	ALS
1253 B	" " (FB)	"	"	"	"
1254 B	NDMA LL	Iced	(1) 1 L Amber	119901	SRL
1255 B	" " (Dup)	"	"	"	"
1256 B	" " (FB)	"	"	"	"
1257 B	Subs. SIM	"	(1) 250 ml Amber	N/A	ALS

Continued from page

Read and Understood By

B-249

Signed 1-14-2025 Date

Dan Munck 1-16-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-14-2025 Page _____ of _____

Sample Location: JEQ-1-483

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	NDMA LL	SVOC-SIM					Charge Number
										XGMD
250114 1252 B	3	G	4							
1253 B FB	3		4							
1254 B	1			4						
1255 B DUP	1			4						
1256 B FB	1			4						
1257 B	1				4					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1.14.2025 1420		[signature]	1-15-25 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & Dan Halvorsen Present Weather is Clear and Cold. This zone will be purged and sampled using a FLUTE System. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Purge pressure set at 348 psi, Sample Pressure at 227 psi. Bubbler set at 3 psi, strobe at 5 psi. First 350 ml will be discarded. Carboy G3 in use.

Pre Parameters		Sample Parameters	Meter ID
Time	= 250114/1307B	250114/1314B	pH/Cond = 12
pH	= 8.45	8.43	Turb = 7
Temp	= 16.10 °C	16.0	STD = 47.4
Cond	= 1020 us/cm	1017	RDG = 47.7
Turb	= 2.16 NTUs	2.12	Lot = A3293
pHPre	= 7.14-10.17	7.14-10.18	Exp = 1/25
pHPost	= 7.14-10.17	7.14-10.17	

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	LAB
250114/1318B	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	27754	ALS
1319B	" " (FB)	"	"	"	"
1320B	VOA LL	Ice	(1) 1L Amber	119801	SRL
1321B	" " (FB)	"	"	"	"
1322B	Sugar SIM	"	(1) 250 ml Amber	N/A	ALS

Continued from page

Read and Understood By

Signed — Date 1-14-2025 — Signed — Date 1-15-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-14-2025 Page _____ of _____

Sample Location: SER-1-683

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA	VOM4LL	SVOA-SIM					Charge Number: VGMD
250114 1340 B	3	A	4							
1341 B FB	3		4							
1342 B FB	1			4						
1343 B	1			4						
1344 B	1				4					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-14-2025 1420	[signature]	1-15-25 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT JER-1-683 FLUTE ENV-0110

Notebook No. D32 #135 (B)

Continued from page ____

Matt Garcia & Dan Halvorsen present. Weather is clear and cold. This zone will be purged and sampled using a FLUTE system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Purge pressure set at 248 psi, Sample pressure at 227 psi, Bubbler set at 3 psi, ~~Sample pressure at 227 psi~~ stable at 5 psi. First 350 ml will be discarded. Carboy GB is in use.

Pre Parameters	Sample Parameters	Meter ID
Time = 250114/1325 B	250114/1338 B	pH/Cond = 12
pH = 8.61	8.58	Turb = 7
Temp = 16.5 °C	16.4	SID = 47.4
Cond = 1071 us/cm	10.70	RDG = 47.7
Turb = 1.07 NTU's	1.05	Lot = A3293
pHPre = 7.14 - 10.17	7.14 - 10.17	Exp = 1/25
pHPost = 7.15 - 10.15	7.15 - 10.16	

SAMPLES

Sample #	Analysis	Preserve	Containers	Lot	Lab
250114/1340 B	VOCs by 8260 LL	Cool/HCl	(3) 40 ml vial	27754	ALS
——— /1341 B	" " " (FB)	"	"	"	"
——— /1342 B	NDMA LL	Cool	(1) 1L Amber	119901	SRL
——— /1343 B	" " (FB)	"	"	"	"
——— /1344 B	Suite SVM	"	(1) 250 ml Amber		ALS

Continued from page

Read and Understood By

Signed — Date: 1-14-2025

Signed — Date: 1-15-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-14-2025 Page _____ of _____

Sample Location: SER-1-563

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: UOC	NOMAL	SUB-SIM					Charge Number
										XGMD
250114 1318 B	3	A	4							
1319 B FB	3	1	4							
1320 B	1			4						
1321 B FB	1			4						
1322 B	1				4					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-14-2025 1420			1-15-25 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & Dan Halvorsen present. Weather is clear and cold. This well will be purged and sampled using a FLUTE system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and minimum of 4 gallons purged prior to sampling. Purge pressure set at 265 psi, sample pressure at 244 psi., Bubbler set at 3 psi, stable at 7 psi. First 350 ml will be discarded. Caddy 62 in use.

Trip Blanks

Sample #	Analysis	Preserve	Container	Lot	Lab
250115 0710 B	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
—— 0711 B	NDMA LL	Ice	(1) 1L Amber	119901	SRL

Pre Parameters		Sample Parameters		Meter ID	
Time	= 250115 1230 B	250115 1300 B		pH/Cond	= 12
pH	= 8.91	8.87		Turb	= 7
Temp	= 16.4	16.3		STD	= 47.4
Cond	= 967 µS/cm	971		EDG	= 47.6
Turb	= 1.34 ntu's	1.29		Lot	= A3293
pHPre	= 7.12-10.10	7.11-10.12		Exp	= 1/25
pHPost	= 7.12-10.11	7.11-10.12			

Samples

Sample #	Analysis	Preserve	Container	Lot	Lab
250115 1302 B	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
—— 1303 B	" " (FB)	"	"	"	"
—— 1304 B	NDMA LL	Ice	(1) 1L Amber	119901	SRL
—— 1305 B	" " (FD)	"	"	"	"
—— 1306 B	SVOA SIM	"	(1) 250 ml Amber	N/A	ALS

Continued from page

Read and Understood By

Signed

1-15-2025

Date

Per Munck

1-16-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-2025 Page _____ of _____

Sample Location: JER-2-504

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	VOC	NDMA LL	SVOC-SIM					Charge Number
										XGMD
250115 0710 D TB	3	A	X							
1302	3		X							
1303 FB	3		X							
0711 B TB	1			X						
1304	1			X						
1305 FB	1			X						
1306	1				X					

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	1-15-2025 2410		1-16-25 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

DRJT Garcia & Dan Halvorsen Present Weather is clear and cold. This zone will be purged and sampled using a FLUTE system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Purge pressure set at 265 psi, sample pressure at 244 psi. Bubbler set at 3psi, stable at 2 psi. First 350 ml will be discarded. Carboy G2 in use.

Pre Parameters		Sample Parameters	Meter ID
Time	= 250115 1237 B	250115 1318 B	PH/COND = 12
pH	= 8.83	8.84	TURB = 7
Temp	= 16.0 °C	16.1	STD = 47.4
Cond	= 998 us/cm	996	RDG = 47.6
DO	= 1.00 mg/l	1.02	Lot = A3293
ORP	= 7.12 · 10.14	7.11 · 10.11	Exp = 1/25
ORP	= 7.12 · 10.14	7.11 · 10.12	

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250115 1320 B	VOA by 8260 LL	HCl	(3) 40 ml Vial	2774	ALS
1321 B	" " (FB)	"	"	"	"
1322 B	NDMA LL	HCl	(1) 1L Amber	119901	SRL
1323 B	" " (FB)	"	"	"	"
1324 B	SVOA - SIM	"	(1) 250 ml Amber	N/A	ALS

Continued from page

Read and Understood By

Signed — 1-15-2025 Date — Signed — 1-16-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-2025 Page _____ of _____

Sample Location: JEQ2-584

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: UOR	NDMA 42	SUOR-SIM					Charge Number
										XGMD
250115 1320 B	3	A	X							
1321 B FB	3		X							
1322 B	1			X						
1323 B FB	1			X						
1324 B	1				X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-15-2025 1410			1-16-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Matt Garcia & Dan Halvorsen present. Weather is clear and cold. This zone will be purged and sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Purge pressure set at 265 psi, sample pressure at 244 psi., Bubbler set at 3psi, stable at 7psi. First 350 ml will be discarded. Carboy G2 in use.

Pre Parameters	Sample Parameters	Meter ID
Time = 250115 1245 B	250115 1335 B	PH/Cond - 12
pH = 8.90	8.80	Turb = 7
Temp = 16.6°C	16.5	STD = 47.4
Cond = 1034 µs/cm	1031	RDS = 47.6
Turb = 1.27 ntus	1.22	Lot = A3293
PHPre = 7.12 - 10.21	7.11 - 10.12	Exp = 1/25
PHPost = 7.12 - 10.18	7.11 - 10.11	

SAMPLES

Sample #	Analysis	Preservative	Container	Lot	LAB
250115 1338 B	VOA by 8260 LL	ICE/HCl	(3) 40 ml Vial	2774	ALS
1339 B	" " (FB)	"	"	"	"
1340 B	NDMA LL	ICE	(1) 1L Amber	11940	SRL
1341 B	" " (FB)	"	"	"	"
1342 B	SVOA - SIM	"	(2) 250 ml Amber	N/A	ALS

Continued from page

Read and Understood By

Signed 1-15-2025 Date

B-259

Per W Munk 1-16-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-2025 Page _____ of _____

Sample Location: JER-2-684

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA	NONA LL	SVOA-SIM					Charge Number
250115 1338 B	3	A	X							XGMD
1339 B FB	3		X							
1340 B	1			X						
1341 D FB	1			X						
1342 B	1				X					

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-15-2025 1410			1-16-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

OJECT JP.1.424 WIL: ENV.0053

Notebook No. D32#134C

Continued from page NA

I MONTES & ROB BURROWS PRESENT. WEATHER IS COLD & CLOUDY. THIS WELL WILL BE SAMPLED W/A DEDICATED BLADDER PUMP. PARAMETER WILL BE MONITORED W/ AN INSITU QUATROLL. SAMPLES TAKEN FROM TEFLON DISCHARGE TUBE. CARBOY G-2 PUMP DRY 600 AREA PRIOR

ALIBRATION

O : 100% SAT A.R
H : 4,7,10 BUFFERS
ND : 1413 uS/cm STD
RB : 10 NTU STD

DTW : 418.15 FT
IDW : 1.5 gal

RAMETERS	TEMP °C	COND µS/cm	DO	PH	ORP	TURB NTU	DTW
250106 0945C	19.01	963.06	5.33	7.55	155.8	1.47	418.18
0950C	19.09	962.34	5.32	7.56	156.0	1.53	418.18
0955C	19.16	961.10	5.34	7.56	156.4	1.60	418.18

SAMPLES

MPLE#	ANALYSIS	PRESERV	CONTAINOR	LOT#	CAR
250106 1000C	VOA LL 8260	ICE. HCl	3.40mL VIALS	27741	ACS
1001C	" (FB)	"	"	"	"
0800C	" (TB)	"	"	"	"
1010C	6077	ICE	1LT AMBER	1X9901	SRL
1015C	LL NDMA	"	"	"	"
1017C	" (FB)	"	"	"	"
0801C	" (TB)	"	"	"	"

Continued from page NA

Read and Understood By

1.06.25
Date

B-261

1-7-25
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1·6·25 Page 1 of 1

Sample Location: JP.1.424

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: LL8260	607	LL NDMA					Charge Number: XGMD
250106 1000c		3	A	X							
1001c	(FB)	3	A	X							
0800c	(TB)	3	A	X							
1010c		1	A		X						
1015c		1	A			X					
1017c	(FB)	1	A			X					
0801c	(TB)	1	A			X					

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1·6·25 11am			1-7-25 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

AL MONTES & ROB BURROWS PRESENT. WEATHER IS COLD & CLOUDY. THIS WELL WILL BE SAMPLED W/ A DEDICATED BLADDER PUMP. NEW TEFLON DISCHARGE TUBE USED FOR SAMPLES. PARAMETERS MONITORED W/ INSITU AQUA TROLL. CARBOY G-2

PARAMETERS CALIBRATIONS

DO = 100% SAT AIR

PH = 4, 7, 10 BUFFERS

COND = 1413 uS/cm STD

TURB = 10 NTU STD

DTW = 419.20 FT

IDW = 1.5 gal

PARAMETERS	TEMP °C	COND mS/cm	DO	PH	ORP	TURB NTU	DTW
250106 1400c	18.92	893.27	4.62	7.43	168.8	0.64	419.25
—— 1405c	18.90	893.66	4.79	7.43	168.5	0.73	419.25
—— 1410c	18.88	889.11	5.04	7.44	168.8	0.59	419.25

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LOT #	CAR
250106 1420c	LL 8260	ICE · HCl	3 · 40ML VIALS	2774	ALS
—— 1422c	" (FB)	"	"	"	"
—— 1426c	LL NOMA	ICE	1 AMBER	119901	SEL
—— 1428c	" (FB)	"	"	"	"

Continued from page NA

Signed 1-6-25 Date

Read and Understood By

1-7-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1·6·25 Page 1 of 1

Sample Location: SP.2.447

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LT 09N60	Analytical Requirement: LT 23A2						Charge Number
										XGMD
250106 1420c	3	A	x							
1422c (FB)	3	A	x							
1426c	1	A		x						
1428c (FB)	1	A		x						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1·6·25 3pm			1-7-25 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

ROBERT BARNARD & TONY TORRES PRESENT. THE WEATHER IS CLEAR & WARM. THIS ZONE WILL BE PURGED USING A DEDICATED TEFLON BLADDER PUMP. THE SAMPLES COLLECTED FROM A TEFLON DISCHARGE TUBE. PARAMETERS COLLECTED FROM A YSI PRO AQUATROLL 500. GABBY G-1

CALIBRATIONS
DO SENSOR CAL'D IN 100% SATURATION
COND SENSOR CAL'D WITH 1413 µs/cm STANDARD
PH SENSOR CAL'D IN 4, 7, 10 BUFFERS
TURB SENSOR CAL'D WITH ZOYN STANDARD.

PARAMETERS

SAMPLE#	PH	COND	DO	ORP	TEMP	TURB
250116 1330	7.45	992.76	5.77	125.1	20.68	0.56
" 1331	7.45	993.01	5.77	126.4	20.67	0.73
" 1332	7.46	992.96	5.78	126.9	20.67	0.70

SAMPLES

SAMPLE#		ANALYSIS	PRESERV	QUT	CAN
250116	1335C	8260 (L	ICE/HCl	(3) 40ml vials	ALS
"	1336C	" (FIB)	"	"	"
"	1337C	C6 D7	ICE	(1) 1G Tambien	SALS
"	1338C	CL/NO3/SO4	"	"	"
"	1339C	" (FIB)	"	"	"
"	1340C	TOTAL METALS	ICE/HNO3	(2) 125ml poly	ALS
"	1341C	~~ANIONS/ALK~~ " (DUP)	"	"	"
"	1342C	ANIONS/ALK	ICE	(2) 250ml poly	"
"	1343C	TDS	"	(1) "	"
"	1344C	PERCHLORATE	"	(1) 125ml poly	"
"	1345C	NO2/NO3	ICE/H2SO4	(1) 250ml poly	"

Continued from page

Read and Understood By

J. [signature] 1.16.25 B-265 Date

Ron Munde Signed 1-17-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-16-25 Page 1 of 1

Sample Location: JA-3-509

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260C	607	CN MA	TOTAL METALS				Charge Number
										XGMD
250116 1335C	3	A	X							
1336C (FB)	3		X							
1337C	1			X						
1338C (FB)	1				X					
1339C (FB)	1				X					
1340C	2					X				
1341C (Dup)	2					X				

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: ANIONS BR	TDS	PERCHLORATE	NO2/NO3				Charge Number
										XGMD
1342C	2	A	X							
1343C	1			X						
1344C	1				X					
1345C	1					X				

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	1-16-25/1500		1-17-25/0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT JP-5-689 ENV.0053 Notebook No. D32 #754 (3)

Continued from page

ROBERT BURROWS & TOM TORRES PRESENT. THE WEATHER IS CLEA & COLD. THIS ZONE WILL BE PURGED & SAMPLED USING A DEDICA TEFLON BLADDER PUMP. SAMPLES COLLECTED FROM A TEFLON DISCHA TUBE CARBOY 6-1

CALIBRATIONS

DO SENSOR CAL'd IN 100% SATURATION
COND SENSOR CAL'd IN 1413 µs/cm STANDARD
pH SENSOR CAL'd IN 4, 7, 10 BUFFERS.
TURB SENSOR CAL'd IN 20 NTU STANDARD

PARAMETERS

SAMPLE#	pH	COND	DO	ORP	TEMP	TURB
250116 0935c	7.46	985.04	5.65	180.5	19.97	1.10
" 0936c	7.47	985.15	5.60	180.9	19.97	0.85
" 0937c	7.46	985.10	5.63	181.0	19.97	0.80

TRIP BLANKS (MILLIPORE)

SAMPLE #	ANALYSIS	PRESERV	COUNT	LAB
250116 0730c	8260 LL	ICE/HCl	(3) 40 mL VIALS	ALS
" 0731c	CLNODMA	ICE	"	SRL

SAMPLES

SAMPLE#	ANALYSIS	PRESERV	COUNT	LAB
250116 0940c	8260 LL	ICE/HCl	(3) 40 mL VIALS	ALS
" 0941c	" (FB)	"	"	"
" 0943c	6007	ICE	(1) LT AMBER	SRL
" 0944c	CLNODMA	"	"	"
" 0945c	" (FB)	"	"	"
" 0946c	TOTAL METALS	ICE/HNO3	(1) 125 ml poly	ALS
" 0947c	ANIONS/ALK	ICE	(2) 250 ml poly	"
" 0948c	TDS	"	(1) "	"
" 0949c	PERCHLORATE	"	(1) 125 ml poly	"
" 0950c	NO_2/NO_3	ICE/H_2SO_4	(1) 250 ml poly	"
" 0942c	8260 (MS)	ICE/HCl	(3) 40 ml VIALS	"

Continued from page

Read and Understood By

Signed 1-16-25 Date B-267 1-17-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-16-25 Page 1 of 1

Sample Location: JP-3-689

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	8260 C	607	LCND 4					Charge Number
										X6MD
250116 0730 C (TB)	3	A	X							
0731 C (TB)	1				X					
0940 C	3		X							
0941 C (FB)	3		X							
0942 C (MS)	3		X							
0943 C	1		X	X						
0944 C	1			X	X					

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	LCND 4	TOTAL METALS	ANIONS / ALK	TDS	PERCHLORATE	NO2 / NO3		Charge Number
										XGMD
0945 C (FB)	1	A	X							
0946 C	2	|		X						
0947 C	2	|			X					
0948 C	1	|				X				
0949 C	1	|					X			
0950 C	1	|						X		

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. [illegible]	1-16-25/1100		[illegible]	1-17-25/0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Frank Calgyor & Tim moore present. These samples will be purged and taken from a dedicated sampling port. Cellboy "Pine front"

Parameters	Meter ID	Buffers	Lot #	Exp
Time 2501 1512 33	pH/cond-Pine Front	CC779793	6/25	
pH 6.82	Turb-Pine Front 10	CC783411	8/25	
Temp 24.1 c	STD-9.79			
Cond 1024 us/cm	RDG-9.72 NTU			
Turb 1.33 NTU	LOT#-N/A			
PhPre 6.99-10.00 (20.0 c)	Exp- 1/31/25			
PhPost-7.02/10.02				

Samples

Sample #	Analysis	Preserv	Lot #	Lab Cont
2501151240	VOA by 8260C	ICE HCl	N/A	ALS (3) 40 mL V.A
1241	" (FB)	"	"	" "
1242	NDMA/DMNI/Biodegrad/CE	"	"	5 VIAL (1) Container

Continued from page N/A

Read and Understood By

Signed

15 JAN 2025
Date

Signature

1-15-25
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-25 Page 1 of 1

Sample Location: PFE-1

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL LOW LEVEL NDMA 607	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
250115 1240	3	A	X						XGMD
— 1241 (FB)	3	A	X						"
— 1242	1	A			X				"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 1,4 DIOXANE 8270	Charge Number
						XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-15-25 (1330)	[signature]	1-16-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore PRESENT - These samples will be pulled and taken from a dedicated sampling port. Carboy "Pine front"

Parameters	Meter ID	Buffers	Lot #	Exp
Time 250115 1256	pH/cond-Planetront 7	CC77.9793		6/25
pH 7.07	Turb-Planetfront 10	CC78.3411		8/25
Temp 24.1 c	STD = 9.79			
Cond 1073 us/cm	R² 6			
Turb 1.65 NTU	LOT# N/A			
pH pre 7.00 - 10.00 (20.1c)	Exp 1/31/25			
pH POST - 7.02 / - 10.02				

Samples

Sample #	Analysis	Preservation	Lot #	LAB COMMENTS
250115 1300	VOA by 8260 (LFB)	ICE; HCl	N/A	ALS 40 mL vial
1301				
1302	NDMA/DMN/Probe 007 (Dup)	ICE		SW846 Lt amber
1303				

Continued from page N/A

Read and Understood By

B-271

15 JAN 2025 Date

Signed

1-15-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-25

Sample Location: PFE-2

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 Low Level NDMA	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
250115, 1300	3	A		X						XGMD
— 1301 (FB)	3	A		X						"
— 1302	1	A				X				"
— 1303 (Dup)	1	A				X				"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 6850	NO2/NO3 353.2	SVOA-SIM 1,4 DIOXANE 8270	Charge Number
							XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
	1-15-25 (1330)		1-16-25 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Frank Gallegos & Tim Moore present. Those samples will be purged and taken using a dedicated sampling port. Carboy "Pine Front"

Parameters	Meter ID	Buffers	Lot #	Exp
Time 25016/1314	pH Hand-Pine Rear		CC779793	6/25
pH 6.96	Turby Pine Front 10		CC78411	8/25
Temp 23.0°C	" STD - 9.79			
Cond 1095 µS/cm	" RDG - 9.80			
Turb 1.84 NTU	" LOT # N/A			
pH pre 7.00 - 10.00 (19.3°C)	Exp 3/25/25			
pH post - 7.02 - 10.02				

Samples

Sample #	Analysis	Pres	Lot #	Lab Cont
25016/1320	VOAs by 8260	ICE/HCl	N/A	Acis (3) 40 ml vial
— 1321	" (FB)	"	"	" "
← 1322	NM Alkalinity/Chloride by 4500	ICE	"	500 ml (1) Lt amber

Continued from page N/A

Read and Understood By

Signed — Date: 16 JAN 2025 — Signed — Date: 1-16-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-16-25 Page 1 of 1

Sample Location: PFE-3

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 Low Level NDMA	Total Metals	Anions/ALK	TDS SM2540C	Charge Number
250116 1320	3	A	X						XGMD
1321 (FB)	3	A	X						"
1322	1	A			X				"

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: Perchlorate 6850	NO2/NO3 353.2	SVOA-SIM 1,4 Dioxane 8270					Charge Number
										XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-16-25 (1355)	[signature]	1-17-25 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

PROJECT PFE-4A

Notebook No. PFT #13

Continued from page N/A

Frank Gallegos & Tim Moore present. These samples will be pulled and taken from a dedicated sampling Port. Carboy "Plume front"

Parameters	Material	Buffers	Lot #	Exp
Time 2501170746	pH/cond-Plume front 7		CC779793	6/25
pH 7.03	Turb-Plume front 10		CC783411	8/25
Temp 21.5°C	"STD 9.79 mV			
Cond 1016 µs/cm	"ADC 9.8 mV			
Turb 1.20 NTU	"Lot # - N/A			
pH Pre 6.97 - 10.00 15.4°C	"Exp - 1/31/25			
pH Post - 7.02 - 10.02				

Samples

Sample #	Analysis	Pres	Lot #	Lab	Cont
2501170750	VOAs by 8260	HCl & MeOH	N/A	ALS	(3) 40 ml Vial
075-1	" (FB)	"	"	" "	"
075-2	NDMA/DMNA/Nitrosamines	Cool	"	SWRI	(1) 1 Liter
075-3	CL NDMA	"	"	" "	"
075-4	" (FB)	"	"	" "	"

Continued from page N/A

Read and Understood By

Signed — Date — Signed — Date

1-17-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-17-2025 Page 1 of 1

Sample Location: PFE-4A

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 Low Level NDMA	TOTAL METALS	ANIONS/MIC	TDS SM2540C	Charge Number
250117 0750	3	A		X						XGMD
0751 (FB)	3	A		X						
0752	1	A				X				
0753	1	A					X			
0754 (FB)	1	A					X			

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 10850	NO_2/NO_3 353.2	SVOA-SIM 8270 1,4 DIOXANE					Charge Number
											XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-17-25 (0815)	[signature]	1-17-25 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Frank Gallegos & Tim Moore present. These samples will be purged and taken using a dedicated sampling port. Catboy "the front"

Parameters	meter SD	Buffers	LOT #	Exp
Time 25/01/16 1222	PH/cond - Blue front 7		CC779793	6/25
PH 7.21	Turb - Blue front 10		CC783411	8/25
Temp 27.1°C	" - TD 9.79 NTU			
cond 920 us/cm	" - RDG 9.80 NTU			
Turb 1.46 NTU	" - LOT # N/A			
PH pre 7.00-10.01 (23.2°C) Exp 1/31/25				
PH post - 7.02/10.02				

Samples

Sample #	Analysis	Pres	LOT #	LAB	Cont
25/01/16/1227	VOA + 8260	ICE + HCL	N/A	ALS	(3) 40 mL vial
— 1228	" (FB)	"	"	"	"
— 1229	NDMA (SIM) + Ranitidine	ICE	"	SWRL	(1) 1L amber

Continued from page N/A

Read and Understood By

B-277

Signed

16 JAN 2025 Date

Signed

1-16-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-16-25

Sample Location: PFE-5

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607 LOW LEVEL NDMA	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
250116 1227	3	A		X						XGMD
1228 (FB)	3	A		X						"
1229	1	A				X				"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Pertinent Notes (if any)	Analytical Requirement: PERCHLORATE 16850	NO2/NO3 353.2	SVOA-SIM 1,4 DIOXANE 8270				Charge Number
										XGMD

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-16-25 (1335)	[signature]	1-17-25 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

PROJECT PFE-7

Notebook No. PFTS #13

Continued from page N/A

Frank Corleone & Tim Moore present. These samples will be pursed and taken from a dedicated sampling port. Carboy: Pine Front.

Parameters	Meter ID	Buffers	Lot #	Exp
Time 250116 1245	PL Cond-Pine Front 7		CC779793	6/26
Ph 7.0	Turb-Pine Front 10		CC783411	8/25
Temp 23.1 C	" STD 9.79 NTU			
Cond 1029 uS/cm	" RDG 9.79 NTU			
Turb 0.21 NTU	" LOT # N/A			
Ph Pre 7.00-10.00 (20.6)	Exp - 1/31/25			
Ph Post - 7.02 / 10.02				

Samples

Sample #	Analysis	Pres	Lot #	Lab Cont
250116 1250	VOA Hydrazine	ICE + HCl	N/A	Acs (5) 40ml vial
1251	" (Comp)	"	"	"
1252	" (FB)	"	"	"
1253	NDMA Dimethylamine by 4007	ICE	"	Swell (1) Liter amber
1254	UCMDMA	"	"	"
1255	" (FB)	"	"	"

Continued from page N/A

Read and Understood By

Signed

16 Jan 2025

B-279

1-16-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-16-25 Page 1 of 1

Sample Location: PFE-7

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA 8260	LL-VOA 8260LL	NDMA/DMN/BROMACIL 607	LOW LEVEL NDMA	TOTAL METALS	ANIONS/ALK	TDS SM2540C	Charge Number
250116 1250	3	A	x							XGMD
1251 (Dup)	3	A	x							"
1252 (FB)	3	A	x							"
1253	1	A			X					"
1254	1	A				X				"
1255 (FB)	1	A				X				"

Pertinent Notes (if any)

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: PERCHLORATE 6850	NO_2/NO_3 353.2	SVOA-SIM 1,4 DIOXANE 8270					Charge Number
										XGMD

Pertinent Notes (if any)

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
[signature]	1-31-25 (1335)	[signature]	1-17-25 / 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

12
PROJECT PL-1-486 ENV00553

Notebook No. D32#134(c)
Continued from page _____

Robert Burrows & Tony Torres present. The weather is clear & cool. This well will be purged & sampled using a Dedicated Teflon Bladder pump. Params collected from a Insitu Aqua Troll 500. Carboy G-2

Calibrations
DO sensor cal'd in 100% saturation
Cond sensor cal'd in 1413.45/cm standard
pH sensor cal'd in 4, 7, 10 buffers
Turb sensor cal'd with 20 NTU standard

Params

Sample #	Time	pH	Cond	DO	ORP	Turb
250115 1330c	19.73	8.05	898.88	7.65	132.9	1.25
1335c	19.74	8.05	898.29	7.64	133.5	1.09
1338c	19.70	8.06	892.69	7.62	133.8	1.15

Samples

Sample #	Analysis	Preserv	Cont	Lab
250115 1350c	8260 BTEX	Ice/HCl	(3) 40mL VOAs	ALS
1351c	" (FB)	"	"	"
1352c	" (Dup)	"	"	"
1353c	VOCs MA	Ice	(1) 1L Amber	SMS
1354c	" (FB)	"	"	"

Continued from page

Read and Understood By

Robert Burrows 1-16-25
Signed Date

B-281

Tom Murdock 1-16-25
Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-15-25 Page 1 of 1

Sample Location: PC-1-486

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	C-O6N8	A-N-O2-C						Charge Number
										XGMD
250115 1350c	3	A	X							
1351c (FB)	3		X							
1352c	3		X							
1353c	1			X						
1354c (FB)	1			X						

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. B	1-15-25 / 1500			1-16-25 / 0840

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

ARRIVED TONY TORRES PRESENT. WEATHER IS COLD & BREEZY. 20 DEGREES
BC SAMPLED W/ 5 TRIP RINSED SAMPLE TUBES. GEN. MISC. PROBE #1589
SYSTEM CHECKS PRIOR. CADDY G-1.
*EXTREME COLD IN A.M. FOR WESTBAY TRUCK
*SAFETY MEETING IN P.M.

INITIAL PARAMETERS	FINAL
TIME - 250131 1040Y	25 01 31 1205Y
PH - 8.45	8.48
TEMP - 21.2°C	21.9
COND - 1043 µs/cm	1041
TURB - 1.51	1.60
PH PRE - 7.01/10.01	7.01/10.01
PH POST - 7.00/10.00	7.00/10.03
ATMOS - 12.56	12.54
DTW - 473.78	473.85

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LOT #	LA
250130 1115Y	LL 8260	ICE-HCL	3-40ML VIALS	2774	HC
30 1438Y	" (EB)	"	"	"	"
30 0900Y	" (TB)	"	"	"	"
31 1116Y	LL NDMA	ICE	1 LT AMBER	0119015	SR
30 1440Y	" (EB)	"	"	"	"
30 0901Y	" (TB)	"	"	"	"

RUNS	1)	2)	3)
	126.57	126.54	126.52
	132.75	132.72	132.75
	132.75	132.68	132.71
	126.58	126.55	126.52

*MATT GARCIA COVERED FOR T. TORRES IN P.M.

Continued from page NA

Read and Understood By

T. [illegible] 1-31-25 Pete Munck 2-3-25
Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1.30.25 Page 1 of 1

Sample Location: PL-6. 723

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL NDMA						Charge Number
										XGMD
250130 0900y (TB)	3	A	X							
1438y (EB)	3	A	X							
0901y (TB)	1	A		X						
1440y (EB)	1	A		X						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1.30.25 3PM			1-31-25/0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-31-25 Page 1 of 1

Sample Location: P1-6.775

Analytical Requirement

Pertinent Notes (if any)	# of Containers	Sample Matrix*	GMO	CNJMA						Charge Number
Sample Number										XGmD
250131 1115Y	3	A	X	X						
1116Y	1	A		X						
3										

Sample Location:

Analytical Requirement

Pertinent Notes (if any)	# of Containers	Sample Matrix*								Charge Number
Sample Number										

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
I. D.	1-31-25 / 1433		[signature]	2-3-25 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Tony Torrez & Craig Del Ferraro present. Weather is cloudy & cool. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Gen. in use. Probe #1539. Surface checks performed on probe prior to sampling.

30 Min. Equipment blanks - Carboy #3

Sample*	Analysis	Preservative	Container	Lot	Lab
250128 1350Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1351Y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI
——— 1352Y	Total Metals	ice/HNO_3	(2) 125ml polys	N/A	ALS

Initial Parameters	Final	Meter ID
Time - 250129 1005Y	Time - 1420Y	pH/Cond - 92
PH - 8.29	PH - 8.28	Turb - 20
Temp - 21.7	Temp - 20.9°C	" std - 10.8 NTU
Cond - 1076	Cond - 1081	" rdg - 12.2 NTU
Turb - 3.32	Turb - 2.29	" lot - A3093
pH pre - 7.10/10.09 (17.9)	pH pre - 7.11/10.10 (9.1)	" Exp - 1/31/25
pH post - 7.11/10.10	pH post - 7.10/10.12	
DTW - 473.02 Ft.	DTW - 473.48	Buffers Lot Exp
Atmos - 72.45	Atmos - 12.47	7 CC779793 8/25
	IDW -	10 CC783411 6/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250129 1040Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1041Y	~~Low Level NDMA~~ CO 607/Bromacil	ice	(1) 1L Amber	011990IJ	SRI
——— 1345Y	Low Level NDMA	"	"	"	"
——— 1346Y	Total Metals	ice/HNO_3	(2) 125ml polys	N/A	ALS

*Due to additional volume requirements, EB's needed an additional 30 minutes. Total metals was started @ 1352 - Sample tubes were rinsed again and refilled. Total Meta

Runs 1) 209.542) 209.473) 209.474) 209.44 was completed @ 1440 hrs.

215.10	215.15	215.13	215.15
215.14	215.14	215.11	215.12
209.58	209.47	209.49	209.47

Continued from page N/A

Read and Understood By

T. [illegible] 1-29-25 Date B-286 — Signed [illegible] 1-30-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/28/25 Page 1 of 2

Sample Location: PL-6-915

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	8260LL	LLNDMA	Total Metals					Charge Number
250128 1350y (EB)	3	A	✓							XGMD
1351y (EB)	1	A		✓						4
1352y (EB)	2	A			✓					4

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Del Frund	1/28/25 / 1500hrs.			1-29-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-29-25 Page 1 of 1

Sample Location: PC-6-910

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	8260	300	4500	8270 TICs				Charge Number
										X6mD
250129 1040y	3	A	X							
1041y	1			X						
1345y	1				X					
1346y	2					X				

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
T. Bg	1-29-25 / 1500		[signature]	1-30-25 / 0800

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & Dan Halvorsen present. Weather is Clear and Cold. This This zone will be sampled using 2 Triple rinsed Stainless Steel sampling tubes. Surface Checks Performed on Probe #1951 prior to sampling. Generator in use.

30 minute Equipment blanks (Carboy 63)

Sample #	Analysis	Preserve	Container	Lot	Lab
250122 0910y	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vials	2774	ALS
—— 0911y	VOA LL	Ice	(1) 1L Amber	119801	SRL

Initial Parameters	Final	meter ID
Time = 250122 1100y	250122 1110y	pH/Cond = 92
pH = 8.14	8.06	Turb = 20
Temp = 20.6°C	20.0°C	SAL = 10.8
Cond = 1104 us/cm	1119 us/cm	DO% = 10.4
Turb = 2.96 NTU's	1.57 NTU's	Lot = A3293
pHPre = 7.10/10.08 (20.7°C)	7.15/10.13 (11.4°C)	Exp = 1/25
pHPost = 7.11/10.07	7.15/10.12	
BPmos = 12.57 psia	12.53 psia	
DTW = 471.22 ft.	471.27 ft.	

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250122 1400y	VOA by 8260 LL	~~Ice~~/HCl	(3) 40 ml Vials	2774	ALS
250122 1040y	NDMA LL	Ice	(1) 1L Amber	119801	SRL
—— 1041y	SVOA-SIM	"	(1) 250 ml Amber	N/A	ALS

Runs - 1) 21.11 2) 21.10 3) 21.18 4) 21.15

~~20.60~~ ~~25.90~~	~~20.60~~ ~~25.90~~	20.70	20.73
20.78	20.78	20.73	20.71
21.10	21.10	21.21	21.15

*Al Montes & Craig Del Ferraro completed this sampling event on 1/22

Continued from page

Read and Understood By

1-17-2025 Date

B-289

Signed

1-23-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-17-2025 Page _____ of _____

Sample Location: B2-10-484

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA	IDMA LL						Charge Number
250117091004	2	A	A							XGMD
141004	3		A							
091104	1			A						
9114	1	A		X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-17-2025 1430			1-21-25 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/22/25 Page 2 of 2

Sample Location: PL-10-484

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	LLNDMA	Dioxane						Charge Number
250122104Y	1	A	✓							XGMD
1041Y	1	A		✓						u

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelFreno	1/22/25 / 1130hrs.		[signature]	1-23-25 / 0800

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Matt Garcia & Dan Halvorsen present. Weather is cloudy and cold. This zone will be sampled using 2 Triple rinsed stainless steel sampling tubes. Surface Checks performed on Probe # 4951 prior to Sampling. Generator in use.

30 minute Equipment Blanks (Carboy G1)

Sample #	Analysis	Preserve	Container	Lot	Lab
250116 1030 y	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
1031 y	NORM LL	Ice	(1) 1L Amber	119901	SRL

Initial Parameters	Final	Meter ID
Time = 250116 1350 y	250116 1450 y	PH/Cond = 92
PH = 8.32	8.29	Turb = 20
Temp = 22.3°C	22.3	STD = 10.8
Cond = 1114 us/cm	1119	RNG = 10.5
Turb = 1.32 ntus	1.30	Lot = A3293
PWPre = 7.10 - 10.13	7.11 - 10.11	Exp = 1/25
PWPost = 7.10 - 10.12	7.10 - 10.11	
Barmod = 12.55 psia	12.55	
DTW = 471.05 ft.	471.22 ft.	

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250116 1425 y	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2774	ALS
1426 y	NORM LL	Ice	(1) 1L Amber	119901	SRL
1427 y	" " (Dup)	"	"	"	"
1445 y	Sulfate - SIM	"	(1) 250ml Amber	N/A	ALS

Purge: 1) 68.07 2) 68.02 3) 68.00
67.58 67.55 67.54
67.50 67.50 67.50
68.00 68.00 68.00

Continued from page

Read and Understood By

Signed — Date: 1-16-2025 — B-292

Signed — Date: 1-17-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-16-2025 Page _____ of _____

Sample Location: PL-10-592

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: U08	UDMA4L	SU08-SIM					Charge Number
250116~~1425~~ 1030Y EB	3	A	Y							XGMD
~~1426~~ 1425Y	3		Y							
~~1427~~ 1031Y EB	1			Y						
1426Y	1			Y						
1427Y Dup	1			Y						
1445Y	1				Y					
	•									

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-16-2025 1425			1-17-25 0845

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Al Montes & Craig Del Ferraro present. Weather is clear & cool. This zone will be sampled using 5 steam cleaned & triple rinsed, stainless steel sample tubes. Gen. in use. Probe #1539. Surface checks performed on probe prior to sampling.

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
250122 1300y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1301y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
250122 1400y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1401y	Low Level NDMA	ice	(1) 1L Amber	0119901J	SRI

Initial Parameters
Time - 250122/1450y
PH - 8.12
Temp - 20.1°C
Cond - 1838 us/cm
Turb - 5.84 NTU's
pH pre - 7.14/10.12 (15.6°C)
pH post - 7.15/10.12
DTW - 472.72 ft.
Atmos - 12.54 psia

Final
Time - 250127 0934y
PH - 8.15
Temp - 19.6
Cond - 1855
Turb - 4.88
pH pre - 7.01/10.05 (14.9)
pH post - 7.01/10.01
DTW - 472.90
Atmos - 12.51
IDW - 0.5

Meter ID
pH/Cond - 92
Turb - 20
" Std - 10.8 NTU's
" rdg - 12.2 NTU's
" lot - A3293
" Exp - 1/31/25

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250123 1305y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1306y	607/Bromacil	ice	(1) 1L Amber	0119901J	SRI
——— 1418y	Low Level NDMA	"	"	"	"
——— 1419y	Total Metals	ice/HNO3	(2) 125ml poly's	N/A	ALS
250127 0930y	Anions/Alk.	ice	(2) 250ml poly's		"
——— 0931y	TDS by SM2540C	"	(1) 250ml poly		"

Continued from page N/A

Read and Understood By

Craig Del Ferraro 1/27/25 B-294 Signed Date

Signed Date 1-28-25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
— 0932 4	Perchlorate by 6850	ice	(1) 125ml poly	N/A	ALS
* — 0933 4	NO_2/NO_3 by 353.2	ice/H_2SO_4	(1) 250ml poly		"

Runs	1)	2)	3)	4)	5)
	332.40	333.57	333.56	333.27	333.60
	335.67	334.68	334.68	335.70	335.68
	335.70	334.68	334.68	335.68	335.55
	332.41	333.56	333.56	333.30	333.61

* Dan Halvorsen & Al Monks sampled on 1-23-2025

Tony Torres & Marcus Avalos Took well over 1-27-25

* Note NO_2/NO_3 had a extra run to finish up & To do param

Continued from page 43

Read and Understood By

Craig Del Fiorentino 1/27/25 B-295 Date

Jon Munch 1-28-25 Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/22/25 Page 1 of 2

Sample Location: PL-6-1195

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Charge Number
250122 1300Y (TB)	3	A	✓		XGMD
1301Y (TB)	1	A		✓	"
1400Y (EB)	3	A	✓		"
1401Y (EB)	1	A		✓	"

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Ulteras	1/22/25 / 1510hrs.			1-23-25 / 0820

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-23-2025 Page _____ of _____

Sample Location: PL-6-1195

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOA	607	8270 4	Metals				Charge Number
										XGMD
2501231305	3	G	4							
1306	1			4						
141804	1				4					
141904	2					4				

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1-23-2025 1445		[signature]	1-27-25 0800

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-27-25 Page 1 of 1

Sample Location: PL-6-1195

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*	RCRA/320.2	TDS	PCB's 8082A	NO3 352.2				Charge Number
										X6mg
256/27 0830 0930	2	A	X							
0931	1	A		X						
0932	1	A			X					
0933	1	A				X				

Sample Location:

Pertinent Notes (if any)

Analytical Requirement

Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
TJ	1-27-25 / 1115	[signature]	1-28-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Marcus Avalos & Craig Del Ferraro present. Weather is clear & cool. This zone will be sampled using 5 triple rinsed, stainless steel sample tubes. Gen. in use. Probe #1539. Surface checks performed on probe prior to sampling.

Trip blanks - Water purification system

Sample	Analysis	Preservative	Container	Lot	Lab
250127 1100Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1101Y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

30 Min. Equipment blanks - Carboy G3

Sample	Analysis	Preservative	Container	Lot	Lab
250127 1320Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1321Y	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI
——— 1400Y	607/Bromacil	"	"	"	"

Initial Parameters
Time - 250128 0905Y
PH - 7.83
Temp - 20.9°C
Cond - 2.13 ms/cm
Turb - 2.99 NTU's
pH pre - 7.15/10.12 (14.0°C)
pH post - 7.13/10.11
DTW - 472.90 ft.
Atmos - 12.45 psia

Final
Time - 250128 1110Y
PH - 7.72
Temp - 21.2°C
Cond - 2.14 ms/cm
Turb - 2.33 NTU's
pH pre - 7.13/10.10 (16.9°C)
pH post - 7.13/10.09
DTW - 473.02 Ft.
Atmos - 12.48 psia
IDW - 1/2 gal.

Meter I.D
pH/Cond - 92
Turb - 20
" Std - 10.8 NTU
" rdg - 11.8 NTU
" lot - A3293
" Exp - 1/31/25

Buffers	Lot	Exp
7	CC799793	6/2
10	CC783411	8/25

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250128 0945Y	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0946Y	607/Bromacil	ice	(1) 1L Amber	011990IJ	SRI
——— 0947Y	Low Level NDMA	"	"	"	"
——— 1025Y	Total Metals	ice/HNO3	(2) 125ml polys	N/A	ALS

Runs	1)	2)	3)	4)
	392.75	392.76	392.75	392.73
	394.95	394.86	394.85	394.79
	394.92	394.80	394.80	394.76
	392.73	392.75	392.68	392.75

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed — 1/28/25 — Date

B-299

Ron Munch — Signed — 1-29-25 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/27/25 Page 1 of 2

Sample Location: PL-6-1335

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260 LL	607	LLNDMA					Charge Number
250127 1100Y (TB)	3	A	✓							XGMD
1101Y (TB)	1	A			✓					"
1320Y (EB)	3	A	✓							"
1321Y (EB)	1	A			✓					"
1400Y (EB)	1	A		✓						"

Sample Location:

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelZenno	1/27/25/1445hrs.		[signature]	1-28-25/0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/28/25 Page 2 of 2

Sample Location: PL-6-1335

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: 8260 LL	607	LLNDMA	Total Metals				Charge Number
2501280945y	3	A	✓							XGMD
0946y	1	A		✓						u
0947y	1	A			✓					u
1025y	2	A				✓				u

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:	Accepted by:	Date / Time:
Craig Deltenre	1/28/25 / 1130hrs.	[signature]	1-29-25 / 0830

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Aguilos • Dan Halvorsen present. Weather is cloudy and cold. This zone will be purged and sampled using a FLUTE system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Bubbler set at 3 psi, stable at 5 psi. Purge pressure set at 228 psi, sample pressure at 207 psi. First 350 ml will be discarded. Cooler G3 in use.

Parameters		Sample Parameters		Meter ID	
Time	250106/1215 B	250106/1241 B		pH/Cond	92
pH	8.58	8.61		Turb	20
Temp	15.8 °C	15.7		DO	10.8
Cond	1109 µs/cm	1111		ROS	11.3
Turb	2.59 ntu's	2.23		Lot	A3293
pHPre	6.93-9.94	6.95-9.97		Exp	1/25
pHPost	6.95-9.98	6.95-9.96			

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Unit
250106/1245 B	VOA by 8260 LL	HCl	(3) 40 ml Vial	3795	DLS
—— /1246 B	" " (FB)	"	"	"	"
—— /1247 B	NDMA LL	Ice	(1) 1L Amber	N/A	SRS
—— /1248 B	" " (Dup)	"	"	"	"
—— /1249 B	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

Signed — Date: 1-6-2025

Signed — Date: 1-7-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-6-2025 Page _____ of _____

Sample Location: SF-7-5414

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: VOC	Analytical Requirement: NDMA LL						Charge Number
										XGMD
250106 1245 B	3	A	X							
1246 B FB	3		X							
1247 B	1			X						
1248 B DUP	1			X						
1249 B FB	1			X						

Sample Location:

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1.6.2025 1415			1-7-25 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT ST. 7. 779 FLUTe ENV-0110

Notebook No. D32 #135 B

Continued from page _____

Marcus Avalos & Dan Halvorsen present. Weather is cloudy and cold. This zone will be purged and sampled using a FLUTe System. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Bubbler set at 3 psi, stable at 5 psi. Purge pressure set at 228 psi, sample pressure at 207 psi. First 350 ml will be discarded. CarBoy #3 in use.

Parameters		Sample Parameters		Meter #0	
Time	= 250106/1233 B	250106/1305 B		pH/Cond	= 92
pH	= 8.87	8.82		Turb	= 20
Temp	= 14.4°C	14.3		SpD	= 10.8
Cond	= 977 µs/cm	994		ODO	= 11.3
Turb	= 1.60 NTUs	1.57		LOT	= D3293
Purge	= 6.94 - 9.94	6.95 - 9.97		Exp	= 1/25
Purge	= 6.95 - 9.97	6.95 - 9.97			

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250106/1310 B	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2795	DAS
1311 B	" " FB	"	"	"	"
1312 B	NDMA LL	Ice	(1) 1L Amber	N/A	SRL
1313 B	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

Signed

1-6-2025

Date

B-304

Signature

1-7-25

Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-6-2025 Page _____ of _____

Sample Location: ST-7-779

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number
			1004	1004 LL						XGMD
250106 1310 B	3	A	X							
1311 B	3		X							
1312 B	1			X						
1313 B	1			X						

Sample Location:

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement							Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1-6-2025 1415			1-7-25 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Marcus Avalos & Dan Halvorsen present. Weather is cloudy and cold. This zone will be purged and sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged every 15 minutes and a minimum of 4 gallons purged prior to sampling. Bladder set at 3psi, stable at 5 psi. Purge pressure set at 228 psi, sample pressure at 207 psi. First 350 ml will be discarded. Carboy G3 in use.

Parameters		Sample Parameters		Meter I.D	
Time	250106 1230 B	250106 1340 B		pH/Cond	92
pH	8.89	8.84		Turb	20
Temp	13.4°C	13.4		SAL	10.8
Cond	909 µs/cm	911		ORP	11.3
Turb	1.11 ntu's	1.09		Lot	A3293
pH Pre	6.93-9.96	6.55-9.94		Exp	3/25
pH Post	6.94-9.95	6.55-9.95			

SAMPLES

Sample #	Analysis	Preserve	Container	Lot	Lab
250106 1345 B	VOA by 8260 LL	Ice/HCl	(3) 40 ml Vial	2795	DAS
1346 B	" " (FB)	"	"	"	"
1347 B	NDMA LL	Ice	(2) 1L Amber	N/A	SRL
1348 B	" " (FB)	"	"	"	"

Continued from page

Read and Understood By

B-306

Signed 1.6.2025 Date

Signed 1-7-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1-6-2025 Page _____ of _____

Sample Location: ST-7-970

Sample Number	# of Containers	Sample Matrix*	VOA	VOA-LL						Charge Number
Pertinent Notes (if any)										XGMD
250106 1345 B	3	A	X							
1346 B FD	3		X							
1347 B	1			X						
1348 B FB	1			X						

Sample Location:

Sample Number	# of Containers	Sample Matrix*							Charge Number
Pertinent Notes (if any)									

Analytical Requirement

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
[signature]	1-6-2025 1415		[signature]	1-7-25 / 0815

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

PROJECT NW · 5 · 459 WSI: ENV · 0110

Notebook No. D32 # 135 B

Continued from page NA

AL NOTES & ROB BURROWS PRESENT. WEATHER IS COLD AND BREEZY. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM @ 224 PSI EVERY 15 MINS. SAMPLES WILL BE TAKEN FROM A DISCHARGE TUBE @ 203 PSI. BUBBLER SET @ 3 PSI AND STABLE @ 7 PSI. CARBOY G-1

PARAMETERS		SAMPLE PARAMS		M.R. I.D
TIME	- 250107 1130B	250107 1205 B		PH/COND - 92
PH	- 7.78	7.69		TURB MTR - 20
TEMP	- 18.3 °C	19.2 °C		" STD - 10.8 NTU
COND	- 1090 uS/cm	1084 uS/cm		" RDG - 11.4 NTU
TURB	- 0.92 NTU	0.81 NTU		" LOT# - AB293
PH PRE	- 6.95-9.95	6.94-9.96		" EXP - 1.81
PH POST	- 6.96-9.96	6.94-9.97		

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINERS	LOT #	LAB
250107 1220B	LL 8260	ICE · HCL	3-40 ML VIALS	2795	ALS
" 1222B	" (FB)	"	"	"	"
" 1225B	LL NDMA	ICE AMBER	1 LT AMBER		ALS
" 1227B	" (FB)	ICE	"		"
" 0750B	" (TB)	"	"		"

* PUMP DRY DONE PRIOR AND AFTER @ 600 AREA.

Continued from page N4

Read and Understood By

Signed — Date 1.7.25

Signed — Date 1-8-25

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1·7·25 Page 1 of 1

Sample Location: NW.5·459

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LC 8260	Analytical Requirement: LC NDMA						Charge Number
										XGMD
250107·1220B	3	A	X							
1222B (FB)	3	A	X							
1225B	1	A		X						
1227B (FB)	1	A		X						
0750B (TB)	1	A		X						

Sample Location: NW.5.579

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LC 8260	Analytical Requirement: LC NDMA						Charge Number
										XGMD
250107·1245B	3	A	X							
1247B (FB)	3	A	X							
1250B	1	A		X						
1255B (FB)	1	A		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1·7·25 2PM			1-8-25 / 0915

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

AL MONTES & ROB BURROWS PRESENT. WEATHER IS COLD & BREEZY. THIS ZONE WILL BE PURGED W/ A FLUTE SYSTEM @ 224 PSI EVERY 15 MINS. SAMPLES WILL BE TAKEN FROM DISCHARGE TUBE @ 203 PSI. BUBBLER SET 3 PSI AND STABLE @ 7 PSI. CARRY

PARAMETERS	SAMPLE PARAMS	MTR ID
TIME + 250107 1135B	250107 1230B	PH/COND - 92
PH + 7.75	7.65	TURB MTR - 20
TEMP - 19.5 °C	19.3 °C	" STD - 10.8 NTU
COND - 1035 µS/cm	1038 µS/cm	" RDG - 11.4 NTU
TURB - 0.76 NTU	0.69 NTU	" LOT# - A3233
PH PRE - 6.94-9.96	6.95-9.95	" EXP - 1-31
PH POST - 6.93-9.94	6.96-9.94	

SAMPLES

SAMPLE #	ANALYSIS	PRESERV	CONTAINER	LOT #	LAB
250107 1245B	LL 8260	ICE, HCl	3-40ML VIALS	2795	ALS
1247B	" (FB)	"	"	2795	"
1250B	LL NDMA	ICE	1LT AMBER		SRL
1255B	" (FB)	"	"		"

Continued from page NA

Read and Understood By

1-7-25 Date

Signed

B-310

Signed

1-8-25 Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1·7·25 Page 1 of 1

Sample Location: WW.5·459

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL NDMA						Charge Number
250107 1220B	3	A	X							XGMD
1222B (FB)	3	A	X							
1225B	1	A		X						
1227B (FB)	1	A		X						
0750B (TB)	1	A		X						

Sample Location: WW.5.579

Pertinent Notes (if any)

Sample Number	# of Containers	Sample Matrix*	Analytical Requirement: LL 8260	LL NDMA						Charge Number
250107 1245B	3	A	X							XGMD
1247B (FB)	3	A	X							
1250B	1	A		X						
1255B (FB)	1	A		X						

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
	1·7·25 2PM			1-8-25 / 0915

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

Al Montes & Craig Del Ferraro present. Weather is cloudy, breezy, & cold. this well will be purged & sampled using a FLUTe system. Samples will be collected using a dedicated discharge hose. This zone will be purged at least 4 times every ~15 minutes or until 4 gallons has been purged. Purge pressure set @ ~22psi and sample pressure set @ 20 3psi. Bubbler set @ 3psi and stable @ 7psi. The first 350ml collected just prior to sampling will be discarded. Carboy GL.

Pre parameters
Time - 2501~~08~~131105B
PH - 8.43
Temp - 23.2°C
Cond - 952us/cm
Turb - 0.43NTU's
pH pre - 7.16/10.20 (9.4°C)
pH post - 7.17/10.19

Sample parameters
Time - 2501~~08~~131145B
PH - 8.36
Temp - 23.7°C
Cond - 942us/cm
Turb - 0.45NTU's
pH pre - 7.14/10.16 (12.2°C)
pH post - 7.13/10.17

Meter ID
pH/Cond - 92
Turb - 20
" std - 10.8 NTU
" rdg - 11.0 NTU
" lot - A3293
" Exp - 1/31/25

Buffers	Lot	Exp
7	CC779793	6/25
10	CC783411	8/25

Samples

Sample ~~08~~	Analysis	Preservative	Container	Lot	Lab
2501~~08~~131150B	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 1151B	" (FB)	"	"	"	"
——— 1152B	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI
——— 1153B	" (Dup.)	"	"	"	"
——— 1154B	" (FB)	"	"	"	"

Total gallons purged: 4

*Dan Halvorsen replaced Al Montes on 1/13.

*No transducer readings available.

Trip blanks - Water purification system

Sample ~~08~~	Analysis	Pres.	Container	Lot	Lab
2501130730B	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ALS
——— 0731B	Low Level NDMA	ice	(1) 1L Amber	011990IJ	SRI

Continued from page N/A

Read and Understood By

Craig Del Ferraro — Signed — 1/13/25 — Date

B-312

Jon Munds — Signed — 1-14-25 — Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/13/25 Page 1 of 1

Sample Location: WW-5-809

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement: 8260LL	Analytical Requirement: LLNDMA	Charge Number
250113073OB (TB)		3	A	✓		XGMD
0731B (TB)		1	A		✓	4
1150B		3	A	✓		4
1151B (FB)		3	A	✓		4
1152B		1	A		✓	4
1153B (Dup)		1	A		✓	4
1154B (FB)		1	A		✓	4

Sample Location:

Sample Number	Pertinent Notes (if any)	# of Containers	Sample Matrix*	Analytical Requirement	Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DeFreno	1/13/25/1310hrs		[signature]	1-14-25 /0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Al Montes & Craig Del Ferraro present. Weather is cloudy, breezy, and cold. This well will be purged & sampled using a FLUTe system. Samples will b collected using a dedicated discharge hose. This zone will be purged at least 4 times every ~15 minutes or until 4 gallons has been purged. Purge pressure set @ 224 psi and sample pressure set @ 203 psi. Bubbler set @ 3 psi and stable @ 4 psi. The first 350ml collected just prior to sampling will be discarded. Carboy G1 in use.

Pre-parameters

Time - 250108 1312008
PH - 8.19
Temp - 23.4°C
Cond - 1303 us/cm
Turb - 0.54 NTU's
pH pre - 7.15/10.19 (8.3°C)
pH post - 7.17/10.19

Sample parameters

Time - 250108 1312108
PH - 8.11
Temp - 23.9°C
Cond - 1291 us/cm
Turb - 0.47 NTU's
pH pre - 7.12/10.16 (13.3°C)
pH post - 7.14/10.16

Meter ID

pH/Cond - 92
Turb - 20
" std - 10.8
" rdg - 11.0
" lot - A3293
" Exp - 1/31/25

Buffers

Buffers	Lot	Exp
7	CC779793	6/2
10	CC783411	8/2

Samples

Sample	Analysis	Preservative	Container	Lot	Lab
250108 1312158	VOA by 8260LL	ice/HCL	(3) 40ml vials	2774	ACS
——— 1216B	" (FB)	"	"	"	"
——— 1217B	Low Level NDMA	ice	(1) 1L Amber	01199015	SREL
——— 1218B	" (FB)	"	"	"	"
———	" (BC)	"	"	25B9036A	"
250108 1100B					

Total gallons purged: 4

*Dan Halvorsen replaced Al Montes on 1/13.

* No transducer readings available.

Continued from page N/A

Read and Understood By

Craig Del Ferraro 1/13/25 B-314 Tom Wunderlich 1-14-25
Signed Date Signed Date

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/8/25 Page _____ of _____

Sample Location: WW-5-909

Analytical Requirement

Pertinent Notes (if any)	# of Containers	Sample Matrix*	LLNDMA						Charge Number
Sample Number									
250108 1100B (BC)	1	A	✓						XGMD

Sample Location:

Analytical Requirement

Pertinent Notes (if any)	# of Containers	Sample Matrix*							Charge Number
Sample Number									

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig DelTorro	1/8/25/1120hrs		[signature]	1-9-25 / 0800

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

WSTF INTERNAL SAMPLE CHAIN OF CUSTODY RECORD

Date: 1/13/25 Page 1 of 1

Sample Location: WW-5-909

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*	8260LL	LLNDMA						Charge Number
250113/215B	3	A	✓							XGMD
1216B (FB)	3	A	✓							"
1217B	1	A		✓						"
1218B (FB)	1	A		✓						"

Sample Location:

Analytical Requirement

Pertinent Notes (if any) / Sample Number	# of Containers	Sample Matrix*								Charge Number

Relinquished by:	Date / Time:		Accepted by:	Date / Time:
Craig Oldfield	1/13/25/1310hrs.		[signature]	1-14-25 / 0850

* Sample Matrix Types: G – Gaseous; A – Aqueous; S – Solid; O – Other: _____

WSTF 381C (05/2016)

Appendix C
Chemical Analytical Program
(Internal QA reports)

National Aeronautics and Space Administration



Quality Assurance Report for White Sands Test Facility Groundwater Monitoring Data

November 2024

NM8800019434

Report Submitted: April 2025

Report Prepared by:
Stephanie Portillo
Environmental Scientist IV
Navarro Research and Engineering, Inc.

1.0 Introduction

The WSTF Groundwater Monitoring Plan (GMP) requires the preparation of a periodic report to assess the quality of groundwater analytical data reported. The monthly Quality Assurance Report (QAR) prepared and reviewed by responsible environmental contractor data management personnel provides the following information:

- A summary of notable anomalies and a follow-up on previous anomalies, if necessary.
- A summary of notable data quality issues by analytical method, if any.
- A list of the sample events for which groundwater samples were collected in November 2024.
- The quantity and type of quality control samples collected or prepared in November 2024.
- Quality control sample percentages in annual period immediately preceding and during November 2024.
- Definitions of data qualifiers used in WSTF analytical data reporting.
- The quantity and type of data qualifiers applied to individual analytical results.
- A list of quality assurance narratives for the month arranged by analytical method.
- A summary table of detections in equipment blank, field blank, and trip blank samples.

2.0 Data Quality

2.1 Notable Anomalies Identified in Previous Quality Assurance Reports

There were no notable anomalies requiring follow-up associated with previous QARs.

2.2 Notable Anomalies

There were no notable anomalies in the groundwater data associated with the November 2024 QAR.

3.0 Data Tables

Table 1 summarizes the groundwater sample events initiated in November 2024. This report is based on data quality issues related to the sample events listed in Table 1. Tables 2 through 8 contain information related to the sample events identified in Table 1. As specified by the GMP, specific quality control samples are utilized to assess the quality of analytical data. Table 2 presents the quantity of quality control samples collected for each analytical method. Table 3 compares the quality control sample percentages collected to the requirements in the GMP. When data quality criteria are not met, data qualifiers are applied to the data. Definitions of data qualifiers used for WSTF chemical analytical data are listed in Table 4. Table 5 and Table 6 present the total number of individual result records and summarize the quantity of field and laboratory data qualifiers assigned to individual analyte result records in the WSTF analytical database. Table 7 provides all quality assurance narratives associated with the sample events in Table 1. Narratives associated with qualified data are identified by **bold text** in Table 7. Table 8 provides a summary of all detections in WSTF blank samples.

Table 1 – Sample Events for November 2024

Well ID	Event Date
BLM-24-565	04-Nov-24
BLM-32-543	04-Nov-24
BLM-32-571	04-Nov-24
BLM-32-632	04-Nov-24
BLM-8-418	04-Nov-24

Well ID	Event Date
ST-4-589	05-Nov-24
ST-4-690	05-Nov-24
BLM-2-630	06-Nov-24
BLM-36-610	06-Nov-24
BLM-36-860	06-Nov-24

Well ID	Event Date
BLM-17-493	07-Nov-24
BLM-3-182	07-Nov-24
BLM-36-800	07-Nov-24
BLM-36-350	08-Nov-24
BW-5-295	08-Nov-24

Well ID	Event Date
400-C-143	12-Nov-24
ST-5-485	12-Nov-24
ST-5-655	12-Nov-24
WW-4-419	12-Nov-24
WW-4-589	12-Nov-24
BLM-38-480	13-Nov-24
BLM-38-620	13-Nov-24
PL-12-570	13-Nov-24
PL-12-800	13-Nov-24
WW-4-848	13-Nov-24
WW-4-948	13-Nov-24
200-I-795	14-Nov-24
BLM-22-570	14-Nov-24
BLM-26-404	14-Nov-24

Well ID	Event Date
PL-7-560	14-Nov-24
ST-1-473	14-Nov-24
ST-1-541	14-Nov-24
100-001-GW	15-Nov-24
100-D-176	15-Nov-24
200-I-490	15-Nov-24
200-I-675	15-Nov-24
600C-005-GW	15-Nov-24
600-C-173	15-Nov-24
200-I-300	18-Nov-24
200-I-375	18-Nov-24
B650-EFF-1	18-Nov-24
B650-INF-1	18-Nov-24
B655-EFF-2	18-Nov-24

Well ID	Event Date
B655-INF-2	18-Nov-24
NASA 4	18-Nov-24
ST-1-630	18-Nov-24
400-001-GW	19-Nov-24
MPE-1	19-Nov-24
MPE-10	19-Nov-24
MPE-11	19-Nov-24
MPE-9	19-Nov-24
200-H-225	20-Nov-24
NASA 6	20-Nov-24
WB-1-200	20-Nov-24
BW-4-330	27-Nov-24

Table 2 – Quantity of Quality Control Samples

Method	Samples	Field Blanks	Equip Blanks	Trip Blanks	Blind Controls	Duplicates	Matrix Spikes
Chloride by EPA Method 300.0	**6**	**1**	0	0	0	0	0
Total Kjeldahl Nitrogen	**6**	**1**	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**17**	**1**	0	0	0	0	0
Nitrosamines by EPA Method 607	**33**	**2**	**1**	0	**1**	**2**	**1**
Perchlorate by SW-846 Method 6850	**12**	0	0	0	0	0	0
Organics by SW-846 Method 8015M	**2**	0	0	0	0	0	0
Pesticides by SW-846 Method 8081	**2**	0	0	0	0	0	0
PCBs by SW-846 Method 8082	**2**	0	0	0	0	0	0
Herbicides by SW-846 Method 8151	**2**	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**35**	**26**	**9**	**1**	**1**	**6**	0
Low Level Volatile Organics by SW-846 Method 8260C	**16**	**11**	**5**	**5**	0	0	**1**
Semi-Volatile Organics by SW-846 Method 8270D	**15**	0	0	0	0	0	0
Dioxins/Furans by SW-846 Method 8290	**2**	0	0	0	0	0	0
Cyanide by SW-846 Method 9012B	**2**	0	0	0	0	0	0
Sulfide by SW-846 Method 9030	**2**	0	0	0	0	0	0
Phenolics by SW-846 Method 9066	**2**	0	0	0	0	0	0
Anions by Various EPA Methods	**9**	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**17**	**1**	**1**	0	**1**	**2**	0
Nitrosamines by Low-Level Method	**22**	**17**	**5**	**6**	**1**	**3**	**1**
Total Dissolved Solids by Standard Method 2540C	**14**	**1**	0	0	0	0	0

Table 3 – Quality Control Sample Percentages

Quality Control Requirement	Requirement %	Samp. Qty. since November 2023	QC Qty. November 2023	QC % since November 2023	Sample Quantity November 2024	QC Quantity November 2024	QC % November 2024
VOA Duplicates	**10**	654	81	**12.39**	51	6	**11.76**
VOA Matrix Spikes	**2**	654	13	**1.99**	51	1	**1.96**
607 Duplicates	**10**	352	38	**10.80**	33	2	**6.06**

Quality Control Requirement	Requirement %	Samp. Qty. since November 2023	QC Qty. November 2023	QC % since November 2023	Sample Quantity November 2024	QC Quantity November 2024	QC % November 2024
607 Matrix Spikes	**2**	352	9	**2.56**	33	1	**3.03**
607 Equipment Blanks	**2**	352	8	**2.27**	33	1	**3.03**
607 Field Blanks	**2**	352	11	**3.13**	33	2	**6.06**
NDMA_LL Duplicates	**10**	394	42	**10.66**	22	3	**13.64**
NDMA_LL Matrix Spikes	**2**	394	14	**3.55**	22	1	**4.55**
Metals Duplicates	**10**	252	29	**11.51**	17	2	**11.76**
Metals Matrix Spikes	**2**	252	5	**1.98**	17	0	**0.00**
Metals Equipment Blanks	**5**	252	12	**4.76**	17	1	**5.88**
Metals Field Blanks	**5**	252	17	**6.75**	17	1	**5.88**

Quality Control Requirement	Requirement %	Sample Events since November 2023	QC Qty. since November 2023	QC % since November 2023	Sample Events November 2024	QC Quantity November 2024	QC % November 2024
VOA Equipment Blanks and Field Blanks	*Should approach 100%*	647	641	**99.07%**	51	51	**100%**
Low Level Nitrosamine Equipment Blanks and Field Blanks	*Should approach 100%*	389	366	**100%**	22	22	**100%**

Quality Control Requirement	Requirement %	Shipments since November 2023	TB Qty. since November 2023	TB % since November 2023	Shipments in November 2024	TB Quantity November 2024	QC % November 2024
VOA Trip Blank (per shipment)	*Should approach 100%*	106	106	**100%**	6	6	100%
Low Level Nitrosamine Trip Blank (per shipment)	*Should approach 100%*	96	96	**100%**	6	6	100%

Table 4 – Definitions of Data Qualifiers

Qualifier	Definition
*	User defined qualifier. See quality assurance narrative.
A	The result of an analyte for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.
AD	Relative percent difference for analyst (laboratory) duplicates was outside standard limits.
D	The reported result is from a dilution.
EB	The analyte was detected in the equipment blank.
FB	The analyte was detected in the field blank.
G	The result is an estimated value greater than the upper calibration limit.
i	The result, quantitation limit, and/or detection limit may have been affected by matrix interference.
J	The result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.
K	The peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration.
NA	The value/result was either not analyzed for or not applicable.
ND	The analyte was not detected above the detection limit.
Q	The result for a blind control sample was outside standard limits.
QD	The relative percent difference for a field duplicate was outside standard limits.
R	The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
RB	The analyte was detected in the method blank.

Qualifier	Definition
S	The result was determined by the method of standard addition.
SP	The matrix spike recovery and/or the relative percent difference for matrix spike duplicates was outside standard limits.
T	The sample was analyzed outside the specified holding time or temperature.
TB	The analyte was detected in the trip blank.
TIC	The analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.

Table 5 – Quantity of Field Based Data Qualifiers Assigned to Individual Result Records

Method	Total Result Records	FB	EB	TB	Q	QD	SP	R
Chloride by EPA Method 300.0	**6**	0	0	0	0	0	0	0
Total Kjeldahl Nitrogen	**6**	**1**	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**17**	0	0	0	0	0	0	0
Nitrosamines by EPA Method 607	**111**	0	0	0	0	0	0	0
Perchlorate by SW-846 Method 6850	**12**	0	0	0	0	0	0	0
Organics by SW-846 Method 8015M	**2**	0	0	0	0	0	0	0
Pesticides by SW-846 Method 8081	**42**	0	0	0	0	0	0	0
PCBs by SW-846 Method 8082	**14**	0	0	0	0	0	0	0
Herbicides by SW-846 Method 8151	**12**	0	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**2636**	0	0	0	0	0	0	0
Low Level Volatile Organics by SW-846 Method 8260C	**1030**	0	0	0	0	0	0	0
Semi-Volatile Organics by SW-846 Method 8270D	**1300**	0	0	0	0	0	0	0
Dioxins/Furans by SW-846 Method 8290	**50**	0	0	0	0	0	0	0
Cyanide by SW-846 Method 9012B	**2**	0	0	0	0	0	0	0
Sulfide by SW-846 Method 9030	**2**	0	0	0	0	0	0	0
Phenolics by SW-846 Method 9066	**2**	0	0	0	0	0	0	0
Anions by Various EPA Methods	**36**	0	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**513**	0	**1**	0	0	**2**	0	0
Nitrosamines by Low-Level Method	**50**	**3**	**3**	**1**	0	0	0	0
Total Dissolved Solids by Standard Method 2540C	**14**	0	0	0	0	0	0	0

Table 6 – Quantity of Laboratory based Data Qualifiers Assigned to Individual Result Records

Method	Total Result Records	*	A	AD	G	RB	T	D	i	J	K
Chloride by EPA Method 300.0	**6**	0	0	0	0	0	0	0	0	0	0
Total Kjeldahl Nitrogen	**6**	0	0	0	0	0	0	0	0	**2**	0
Nitrate plus Nitrite as N by EPA Method 353.2	**17**	0	0	0	0	0	0	0	0	**2**	0
Nitrosamines by EPA Method 607	**111**	0	0	0	**4**	0	0	**6**	0	**3**	0
Perchlorate by SW-846 Method 6850	**12**	0	0	0	0	0	**1**	0	0	0	0
Organics by SW-846 Method 8015M	**2**	0	0	0	0	0	0	0	0	0	0
Pesticides by SW-846 Method 8081	**42**	0	0	0	0	0	0	0	0	0	0
PCBs by SW-846 Method 8082	**14**	0	0	0	0	0	0	0	0	0	0
Herbicides by SW-846 Method 8151	**12**	0	0	0	0	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**2636**	0	0	0	0	0	0	**11**	0	**52**	0
Low Level Volatile Organics by SW-846 Method 8260C	**1030**	0	0	0	0	0	0	0	0	**3**	0
Semi-Volatile Organics by SW-846 Method 8270D	**1300**	0	0	0	0	0	0	0	0	**9**	0

Method	Total Result Records	*	A	AD	G	RB	T	D	i	J	K
Dioxins/Furans by SW-846 Method 8290	**50**	0	0	0	0	0	0	0	0	**1**	0
Cyanide by SW-846 Method 9012B	**2**	0	0	0	0	0	0	0	0	0	0
Sulfide by SW-846 Method 9030	**2**	0	0	0	0	0	0	0	0	0	0
Phenolics by SW-846 Method 9066	**2**	0	0	0	0	0	0	0	0	0	0
Anions by Various EPA Methods	**36**	0	0	0	0	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**513**	0	0	0	0	0	0	0	0	**104**	0
Nitrosamines by Low-Level Method	**50**	0	**2**	0	0	**2**	0	0	0	**5**	**10**
Total Dissolved Solids by Standard Method 2540C	**14**	0	0	0	0	0	0	0	0	0	0
Chloride by EPA Method 300.0	**6**	0	0	0	0	0	0	0	0	0	0

Table 7 – Quality Assurance Narratives

Well ID	Event Date	SW-846 Method 8260C QA Narratives
BLM-24-565	**11/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2411041319C) at 12.0 ug/L.**
BLM-24-565	**11/4/2024**	**For Low Level SW-846 Method 8260, an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-24-565	11/4/2024	For Low Level SW-846 Method 8260, the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-24-565	**11/4/2024**	**For Low Level SW-846 Method 8260, an unknown analyte (12 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-32-543	**11/4/2024**	**For SW-846 Method 8260 (Air), an unknown (29 ug/L) analyte result was estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-32-543	**11/4/2024**	**For SW-846 Method 8260C (Air), Unknown was detected in the field blank (2411041301B) at 13.0 ug/L.**
BLM-32-543	11/4/2024	For SW-846 Method 8260 (Air), the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-32-543	**11/4/2024**	**For SW-846 Method 8260 (Air), an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-32-571	**11/4/2024**	**For SW-846 Method 8260 (Air) an unknown (28 ug/L) analyte result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-32-571	**11/4/2024**	**For SW-846 Method 8260 (Air) an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-32-571	11/4/2024	For SW-846 Method 8260 (Air) the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-32-632	**11/4/2024**	**For SW-846 Method 8260 (Air), an unknown analyte (27 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-32-632	**11/4/2024**	**For SW-846 Method 8260 (Air), an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-8-418	**11/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2411040911C) at 12.0 ug/L.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
BLM-8-418	11/4/2024	For Low Level SW-846 Method 8260C (Air), for sample (2411040910C) the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-8-418	**11/4/2024**	**For Low Level SW-846 Method 8260C (Air), an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-8-418	**11/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2411040730C) at 11.0 ug/L.**
BLM-8-418	**11/4/2024**	**For Low Level SW-846 Method 8260C (Air), for sample (2411040910C) multiple analytes results were estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-4-589	**11/5/2024**	**For Low Level SW-846 Method 8260 (Air), an unknown (27 ug/L) analyte result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-4-589	**11/5/2024**	**For Low Level SW-846 Method 8260 (Air), an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-4-589	11/5/2024	For Low Level SW-846 Method 8260 (Air), the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
ST-4-589	11/5/2024	For Low Level SW-846 Method 8260C, matrix spike recoveries for sample 2411051407C were within laboratory control limits.
ST-4-690	**11/5/2024**	**For Low Level SW-846 Method 8260C (Air), an unknown analyte (27 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
ST-4-690	**11/5/2024**	**For Low Level SW-846 Method 8260C (Air), an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-4-690	**11/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2411051001C) at 12.0 ug/L.**
BLM-2-630	**11/6/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2411061409A) at 12.0 ug/L.**
BLM-2-630	**11/6/2024**	**For Low Level SW-846 Method 8260C an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-2-630	**11/6/2024**	**For Low Level SW-846 Method 8260C (Air), analytes Unknown (27 ug/L) and Trichlorofluoromethane (CFC 11) (0.26 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-36-610	**11/6/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2411060930Y) at 13.0 ug/L.**
BLM-36-610	**11/6/2024**	**For Low Level SW-846 Method 8260, an unknown analyte (13 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-36-610	11/6/2024	For Low Level SW-846 Method 8260, the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-36-610	**11/6/2024**	**For Low Level SW-846 Method 8260C an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-36-860	**11/6/2024**	**For SW-846 Method 8260, for sample (2411061420Y) an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-36-860	**11/6/2024**	**For SW-846 Method 8260, for sample (2411061420Y) an unknown analyte (15 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
BLM-36-860	11/6/2024	For SW-846 Method 8260D, the lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-36-860	**11/6/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2411061420Y) at 15.0 ug/L.**
BLM-17-493	**11/7/2024**	**For SW-846 Method 8260C, for sample (2411070939A) an unknown analyte (5 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-17-493	**11/7/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2411070939A) at 5.0 ug/L.**
BLM-17-493	**11/7/2024**	**For SW-846 Method 8260, for sample (2411070938A) analytes 1,2-Dichloro-1,1,2-trifluoroethane (CF-C 123a) (0.67 ug/L) and Dichlorofluoromethane (CFC 21) (0.39 ug/L) results were estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-17-493	**11/7/2024**	**For SW-846 Method 8260C, an unknown analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-17-493	11/7/2024	For SW-846 Method 8260C, there were no detections in the trip blank.
BLM-17-493	11/7/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
BLM-3-182	11/7/2024	For SW-846 Method 8260C, there were no detections in the field blank.
BLM-3-182	**11/7/2024**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2,-Trifluoroethane reported result is from a dilution.**
BLM-3-182	11/7/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
BLM-3-182	**11/7/2024**	**For SW-846 Method 8260, analyte Trichlorofluoromethane (CFC 11) (0.41 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-36-800	11/7/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
BLM-36-800	11/7/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
BLM-36-350	**11/8/2024**	**For SW-846 Method 8260, analyte cis-1,2-Dichloroethene (0.47 ug/L) analyte result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-36-350	11/8/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
BLM-36-350	11/8/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
BW-5-295	11/8/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2411081016A and 2411081017A were within control limits or below the calculable range.
BW-5-295	11/8/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Well ID	Event Date	SW-846 Method 8260C QA Narratives
BW-5-295	**11/8/2024**	**For SW-846 Method 8260, analyte Sulfur Dioxide was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BW-5-295	**11/8/2024**	**For SW-846 Method 8260, analyte Sulfur Dioxide (5.1 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-5-295	**11/8/2024**	**For SW-846 Method 8260, analytes Dichlorofluoromethane (CFC 11) (0.58 ug/L) and Trichloroethene (TCE) (0.45 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-5-295	**11/8/2024**	**For SW-846 Method 8260C, Sulfur Dioxide was detected in the field blank (2411081018A) at 5.1 ug/L.**
400-C-143	11/12/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
400-C-143	11/12/2024	For SW-846 Method 8260C, there were no detections in the field blank.
400-C-143	**11/12/2024**	**For SW-846 Method 8260, analyte 1,1-Dichloroethene (0.23 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-C-143	**11/12/2024**	**For SW-846 Method 8260, analyte Trichlorofluoromethane (CFC 11) reported result is from a dilution.**
ST-5-485	11/12/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
ST-5-485	11/12/2024	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
ST-5-655	11/12/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
ST-5-655	11/12/2024	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
ST-5-655	11/12/2024	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
WW-4-419	11/12/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
WW-4-419	11/12/2024	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
WW-4-589	11/12/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
WW-4-589	11/12/2024	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
BLM-38-480	11/13/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-38-480	11/13/2024	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
BLM-38-620	11/13/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this

Well ID	Event Date	SW-846 Method 8260C QA Narratives
		sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-38-620	11/13/2024	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
BLM-38-620	11/13/2024	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
PL-12-570	11/13/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-12-570	11/13/2024	For SW-846 Method 8260C, there were no detections in the field blank.
PL-12-570	11/13/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2411131000A and 2411131001A were within control limits or below the calculable range.
PL-12-800	11/13/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-12-800	11/13/2024	For SW-846 Method 8260C, there were no detections in the field blank.
WW-4-848	11/13/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-4-848	11/13/2024	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
WW-4-948	11/13/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-4-948	11/13/2024	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
WW-4-948	**11/13/2024**	**For low Level SW-846 Method 8260C, WW-4-948 sample 2411131231B is incorrectly reported as sample "241113 1231B" in the analytical report and the associated EDD file due to a laboratory error. The well and sample ID in the database was corrected to match the chain of custody and the logbook.**
200-I-795	11/14/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-I-795	**11/14/2024**	**For SW-846 Method 8260C, analyte Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
200-I-795	**11/14/2024**	**For SW-846 Method 8260C, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-795	11/14/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
BLM-22-570	11/14/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-22-570	11/14/2024	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
BLM-26-404	11/14/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit

Well ID	Event Date	SW-846 Method 8260C QA Narratives
		(MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-26-404	11/14/2024	For SW-846 Method 8260C, there were no detections in the field blank.
BLM-26-404	**11/14/2024**	**For SW-846 Method 8260C, BLM-26-404 sample 2411140900A is incorrectly reported as sample "241114090A" in the analytical report and the associated EDD file due to a laboratory error. The well and sample ID in the database was corrected to match the chain of custody and the logbook.**
BLM-26-404	**11/14/2024**	**For SW-846 Method 8260C, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-7-560	11/14/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-7-560	11/14/2024	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
PL-7-560	11/14/2024	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
ST-1-473	11/14/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-1-473	**11/14/2024**	**For SW-846 Method 8260C, analyte Dichlorofluoromethane (CFC 21) (0.62 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-1-473	**11/14/2024**	**For SW-846 Method 8260C, analyte Trichloroethene (TEC) reported result is from a dilution.**
ST-1-473	11/14/2024	For SW-846 Method 8260C, there were no detections in the field blank.
ST-1-541	11/14/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-1-541	11/14/2024	For SW-846 Method 8260C, there were no detections in the field blank.
ST-1-541	**11/14/2024**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane reported result is from a dilution.**
100-001-GW	11/15/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
100-001-GW	**11/15/2024**	**For SW-846 Method 8260C, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-001-GW	11/15/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2411150800A and 2411150802A were within control limits or below the calculable range.
100-001-GW	11/15/2024	For SW-846 Method 8260C, there were no detections in the field blank.
100-D-176	11/15/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
100-D-176	**11/15/2024**	**For SW-846 Method 8260C, analyte Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
100-D-176	**11/15/2024**	**For SW-846 Method 8260C, analytes Unknown (5.2 ug/L) and 1,2-Dichloro-1,1,2-trifluoroethane (0.78 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-D-176	11/15/2024	For SW-846 Method 8260C, there were no detections in the field blank.
200-I-490	11/15/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-I-490	**11/15/2024**	**For SW-846 Method 8260, analyte Benzene (0.49 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-490	11/15/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
200-I-675	**11/15/2024**	**For SW-846 Method 8260, analyte Silane, flourotrimethyl- was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
200-I-675	**11/15/2024**	**For SW-846 Method 8260, analyte Silane, flourotrimethyl- (5.6 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-675	11/15/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
200-I-675	11/15/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
600C-005-GW	11/15/2024	For SW-846 Method 8260C, there were no detections in the field blank.
600-C-173	**11/15/2024**	**For SW-846 Method 8260C, 600-C-173 sample 2411150945C is incorrectly reported as well "600-*C-173" in the analytical report and the associated EDD file due to a laboratory error. The well and sample ID in the database was corrected to match the chain of custody and the logbook.**
200-I-300	**11/18/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-300	11/18/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2411181315Y and 2411181316Y were within control limits or below the calculable range.
200-I-300	11/18/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
200-I-375	11/18/2024	For SW-846 Method 8260C, there were no detections in the equipment blank.
B650-EFF-1	**11/18/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2411180951) at 5.5 ug/L.**
B650-EFF-1	**11/18/2024**	**For Low Level SW-846 Method 8260, analyte Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
B650-EFF-1	**11/18/2024**	**For Low Level SW-846 Method 8260, analyte Unknown (5.7 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B650-INF-1	**11/18/2024**	**For SW-846 Method 8260, analytes Tetrachloroethene (PCE) (1 ug/L) and 1,2-Dichloro-1,1,2-trifluoroethane (0.22 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B650-INF-1	11/18/2024	For SW-846 Method 8260C, there were no detections in the field blank.
B650-INF-1	11/18/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2411181005 and 2411181006 were within control limits or below the calculable range.
B655-EFF-2	**11/18/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2411181205) at 5.8 ug/L.**
B655-EFF-2	**11/18/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2411181243) at 5.4 ug/L.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
B655-EFF-2	**11/18/2024**	**For Low Level SW-846 Method 8260, Unknown (5.8 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-EFF-2	**11/18/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
B655-INF-2	**11/18/2024**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2,-Trifluoroethane reported result was from a dilution.**
B655-INF-2	11/18/2024	For SW-846 Method 8260C, there were no detections in the field blank.
ST-1-630	**11/18/2024**	**For SW-846 Method 8260, analytes Difluorochloromethane (CFC 21) (0.77 ug/L) and 2,2-Dichloro-1,1,1-trifluoroethane (0.33 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-1-630	**11/18/2024**	**For SW-846 Method 8260, analytes 1,1,2-Trichloro-1,2,2-Trifluoroethane, Trichloroethene (TCE), and Trichlorofluoromethane (CFC 11) reported results are from a dilution.**
ST-1-630	**11/18/2024**	**For SW-846 Method 8260C, 2-Butanone (MEK).(2.6 ug/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-1-630	**11/18/2024**	**For SW-846 Method 8260C, 2-Butanone (MEK) was detected in the field blank (2411181016A) at 2.6 ug/L.**
400-001-GW	**11/19/2024**	**For SW-846 Method 8260,Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
400-001-GW	**11/19/2024**	**For SW-846 Method 8260, for sample (2411191342 A) analyte 2-Butanone (MEK) (1.3 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-001-GW	**11/19/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-001-GW	**11/19/2024**	**For SW-846 Method 8260C, 2-Butanone (MEK) was detected in the field blank (2411191342A) at 1.3 ug/L.**
MPE-1	**11/19/2024**	**For SW-846 Method 8260C, analyte cis-1,2-Dichloroethene (0.31 ug/L) analyte result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
MPE-1	11/19/2024	For SW-846 Method 8260C, there were no detections in the field blank.
MPE-10	11/19/2024	For SW-846 Method 8260C, there were no detections in the field blank.
MPE-11	**11/19/2024**	**For SW-846 Method 8260, analyte Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
MPE-11	**11/19/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
MPE-11	**11/19/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2411191313) at 5.2 ug/L.**
MPE-9	**11/19/2024**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane reported result is from a dilution.**
MPE-9	**11/19/2024**	**For SW-846 Method 8260, analytes 4-Methyl-2-pentanone (0.56 ug/L) and Trichloroethene (TCE) (0.42 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
MPE-9	11/19/2024	For SW-846 Method 8260C, there were no detections in the field blank.
NASA 6	**11/20/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
NASA 6	**11/20/2024**	**For SW-846 Method 8260, Unknown (0.56 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
NASA 6	**11/20/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2411201032C) at 5.6 ug/L.**
BW-4-330	**11/27/2024**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane (170 ug/L) in sample 2411270925C was reported result is from a dilution.**
BW-4-330	**11/27/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-4-330	11/27/2024	For SW-846 Method 8260, there were no detections in the field blank.
BW-4-330	11/27/2024	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
BW-4-330	**11/27/2024**	**For SW-846 Method 8260, analytes Unknown and Unknown were tentatively identified by a GC/MS library search and the amount reported is an estimated value.**

Well ID	Event Date	Modified EPA Method 607 QA Narratives
BLM-36-610	11/6/2024	For Modified EPA Method 607, matrix spike recoveries for sample 2411061330Y were within laboratory control limits.
BLM-36-350	11/8/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2411081337Y and 2411081400Y were within control limits or below the calculable range.
200-I-795	**11/14/2024**	**For Modified EPA Method 607, analyte N-Nitrodimethylamine (0.006 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
BLM-26-404	**11/14/2024**	**For Modified EPA Method 607, analyte Bromacil (0.007 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
BLM-26-404	11/14/2024	For Modified EPA Method 607, there were no detections in the field blank.
ST-1-473	**11/14/2024**	**For Modified EPA Method 607, analyte Bromacil (0.006 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
ST-1-473	11/14/2024	For Modified EPA Method 607, there were no detections in the field blank.
200-I-375	11/18/2024	For Modified EPA Method 607, there were no detections in the equipment blank.
NASA 6	11/20/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2411201034C and 2411201034C were within control limits or below the calculable range.
NASA 6	**11/20/2024**	**For Modified EPA Method 607, analytes NDMA and DMN result is an estimated value greater than the upper calibration limit.**
NASA 6	**11/20/2024**	**For Modified EPA Method 607, analytes N-Nitrodimethylamine and N-Nitrosodimethylamine results exceeded the standard calibration curve. Extracts were diluted 100-fold prior to reanalysis. Due to the high dilution factor, surrogate recoveries were only reported from the initial analysis.**
NASA 6	**11/20/2024**	**For Modified EPA Method 607, analytes N-Nitrodimethylamine, N-Nitrosodimethylamine, and Bromacil results are from a dilution.**
BLM-36-610	11/6/2024	For Modified EPA Method 607, matrix spike recoveries for sample 2411061330Y were within laboratory control limits.
BLM-36-350	11/8/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2411081337Y and 2411081400Y were within control limits or below the calculable range.
200-I-795	**11/14/2024**	**For Modified EPA Method 607, analyte N-Nitrodimethylamine (0.006 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
BLM-26-404	**11/14/2024**	**For Modified EPA Method 607, analyte Bromacil (0.007 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
BLM-26-404	11/14/2024	For Modified EPA Method 607, there were no detections in the field blank.

Well ID	Event Date	Modified EPA Method 607 QA Narratives
ST-1-473	**11/14/2024**	**For Modified EPA Method 607, analyte Bromacil (0.006 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
ST-1-473	11/14/2024	For Modified EPA Method 607, there were no detections in the field blank.
200-I-375	11/18/2024	For Modified EPA Method 607, there were no detections in the equipment blank.
NASA 6	11/20/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2411201034C and 2411201034C were within control limits or below the calculable range.
NASA 6	**11/20/2024**	**For Modified EPA Method 607, analytes NDMA and DMN result is an estimated value greater than the upper calibration limit.**
NASA 6	**11/20/2024**	**For Modified EPA Method 607, analytes N-Nitrodimethylamine and N-Nitrosodimethylamine results exceeded the standard calibration curve. Extracts were diluted 100-fold prior to reanalysis. Due to the high dilution factor, surrogate recoveries were only reported from the initial analysis.**
NASA 6	**11/20/2024**	**For Modified EPA Method 607, analytes N-Nitrodimethylamine, N-Nitrosodimethylamine, and Bromacil results are from a dilution.**

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
BLM-24-565	**11/4/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.42 ng/L) result estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-24-565	11/4/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-32-543	**11/4/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2411041304B) at 0.35 ng/L.**
BLM-32-543	**11/4/2024**	**For Low Level Nitrosamine Method, analyte N Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
BLM-32-543	**11/4/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (1 ng/L) has results greater than the detection limit but lesser than the report limit. The analyte(s) is flagged accordingly.**
BLM-32-571	11/4/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-32-571	**11/4/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.39 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-32-632	**11/4/2024**	**For EPA method NDMA_LL, matrix spike duplicate recoveries for N-Nitrodimethylamine (5%) in sample 2411041425B were significantly outside laboratory control limits (70-130%). Recovery for N-Nitrosodimethylamine was within the limits for the MS and MSD. As the LFB and LCS both met criteria in this SDG and only the N-Nitrodimethylamine was affected, the low recoveries are likely to be caused by a bad injection (e.g., possibly a clogged syringe) in sequence O112224.**
BLM-32-632	**11/4/2024**	**For EPA method NDMA_LL, initial analysis of sample 2411041408B (BLM-32-632) in sequence O112224 did not contain any internal standard (IS) peaks and unusually low recovery standard (RS) peak areas. The associated MSD also contained no native spike peaks, although IS and RS peaks were observed. All four samples from this site were reanalyzed in sequence O112524. Reanalysis of sample 2411041408B (BLM-32-632) contained IS peaks and expected RS peak areas, indicating the initial analysis was likely a bad injection (e.g., possibly a clogged syringe). Results for the other three samples that were reanalyzed, including the MSD with no significant native peaks, remained consistent with the initial analyses. Only sample 2411041408B (BLM-32-632) was reported from the reanalysis sequence.**
BLM-32-632	**11/4/2024**	**For EPA method NDMA_LL, spike recovery in the MS was within the advisory limit of 70-130% for both compounds. The MSD was inadvertently not spiked with matrix spike, and so has no spike recoveries. This is reflected in the associated Recovery Report. The absence of MSD spike compounds also caused the reported ~200% RPD values.**

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
BLM-32-632	**11/4/2024**	**For EPA method NDMA_LL, analytes N Nitrosodimethylamine and N Nitrodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
BLM-32-632	11/4/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-8-418	**11/4/2024**	**For Low Level Nitrosamine Method, for sample (2411040912) analyte N-Nitrosodimethylamine (0.43 ng/L) are estimated values less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-8-418	11/4/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
BLM-8-418	11/4/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-4-589	11/5/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-4-690	11/5/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-4-690	11/5/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
BLM-2-630	**11/6/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2411061413A) at 0.38 ng/L.**
BLM-2-630	11/6/2024	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2411061412A and 2411061412A were within control limits or below the calculable range.
BLM-2-630	**11/6/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2411061413A) at 0.38 ng/L.**
BLM-2-630	**11/6/2024**	**For Low Level Nitrosamine Method, analyte N Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
BLM-2-630	**11/6/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.38 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-5-655	11/12/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
ST-5-655	**11/12/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.49 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-5-655	**11/12/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2411120926Y) at 0.84 ng/L.**
ST-5-655	**11/12/2024**	**For all analyses, due to an incorrect entry into the computer logbook, sample ID numbers where entered in using the preface "2411012", the correct preface is "241112". The "0" was removed. The database was corrected to match the chain of custody and laboratory report.**
WW-4-419	11/12/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-4-589	11/12/2024	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2411121225B and 2411121300B were within control limits or below the calculable range.
WW-4-589	11/12/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-38-480	**11/13/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2411131251Y) at 1.17 ng/L.**
BLM-38-620	**11/13/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2411130936Y) at 0.96 ng/L.**
PL-12-570	11/13/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-12-800	11/13/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-12-800	11/13/2024	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2411131422A and 2411131423A were within control limits or below the calculable range.
WW-4-848	11/13/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-4-948	11/13/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-22-570	11/14/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
PL-7-560	**11/14/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2411141001Y) at 0.56 ng/L.**
PL-7-560	11/14/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
B650-EFF-1	**11/18/2024**	**For Low Level Nitrosamine Method, The blank did not contain any positive detections above the MDL, but there is an EMPC for NDMA at 0.91 ng/L. This interferent had the effect of enhancing the NDMA quantitation ion areas in both the LFB and LCS, as noted below. This EMPC is also observed in all of the samples in this SDG, indicating it is most likely a lab contaminant. All of the solvents, materials, and solutions used were the same as those used for SDG HR-961 two days prior, which did not exhibit this issue. This could indicate that the EMPC peak came from an arbitrary external source in the lab on that particular day.**
B650-EFF-1	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
B650-EFF-1	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2411180954) at 0.94 ng/L.**
B650-EFF-1	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
B650-EFF-1	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
B655-EFF-2	**11/18/2024**	**For Low Level Nitrosamine Method, the blank did not contain any positive detections above the MDL, but there is an EMPC for NDMA at 0.91 ng/L. This interferent had the effect of enhancing the NDMA quantitation ion areas in both the LFB and LCS, as noted below. This EMPC is also observed in all of the samples in this SDG, indicating it is most likely a lab contaminant. All of the solvents, materials, and solutions used were the same as those used for SDG HR-961 two days prior, which did not exhibit this issue. This could indicate that the EMPC peak came from an arbitrary external source in the lab on that particular day.**
B655-EFF-2	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
B655-EFF-2	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2411181246) at 0.67 ng/L.**
B655-EFF-2	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the trip blank (2411181206) at 0.65 ng/L.**
B655-EFF-2	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
B655-EFF-2	**11/18/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**

Well ID	Event Date	SW-846 Method 8270D QA Narratives
BLM-3-182	**11/7/2024**	**For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl (520 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. No corrective action taken**
BLM-3-182	**11/7/2024**	**For SW-846 Method 8270, analyte Butane-2-methoxy-2-methyl was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
400-C-143	**11/12/2024**	**For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-C-143	**11/12/2024**	**For SW-846 Method 8270, analytes Butane,2-methoxy-2-methy and n-Hexadecanoic acid were tentatively identified by a GC/MS library search and the amount reported is an estimated value.**

Well ID	Event Date	SW-846 Method 8270D QA Narratives
400-C-143	11/12/2024	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methy and n-Hexadecanoic acid were detected in the method blank.
WW-4-419	11/12/2024	For SW-846 Method 8270, analytes Butane, 2-methoxy-2-methyl, Benzenesulfonamide, N-butyl, and 2,2,6,6-Tetramethyl-4-piperidone were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
WW-4-419	11/12/2024	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
WW-4-419	11/12/2024	For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl- was detected in the method blank.
WW-4-589	11/12/2024	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
WW-4-589	11/12/2024	For SW-846 Method 8270, analytes Butane, 2-methoxy-2-methyl and Benzenesulfonamide, N-butyl were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
WW-4-589	11/12/2024	For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl was detected in the method blank.
WW-4-848	11/13/2024	For SW-846 Method 8270, analytes Butane, 2-methoxy-2-methyl (660 ug/L) and Benzenesulfonaminde, N-butyl- (89 ug/L) were estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
WW-4-848	11/13/2024	For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl was detected in the method blank.
WW-4-848	11/13/2024	For SW-846 Method 8270, analytes Butane, 2-methoxy-2-methyl and Benzenesulfonaminde, N-butyl- were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
WW-4-948	11/13/2024	For SW-846 Method 8270, analyte Butane,2-methoxy-2-methyl was detected in the method blank.
WW-4-948	11/13/2024	For SW-846 Method 8270, analyte Butane,2-methoxy-2-methyl was tentatively identified by a GC/MS library search and the amount reported is an estimated value.
WW-4-948	11/13/2024	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
100-001-GW	11/15/2024	For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl- (650 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
100-001-GW	11/15/2024	For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl- was tentatively identified by a GC/MS library search and the amount reported is an estimated value.
100-D-176	11/15/2024	For SW-846 Method 8270, analytes Butane, 2-methoxy-2-methyl-, 1H-Benzotriazole,4-methyl-, and Unknown, were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
100-D-176	11/15/2024	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
600C-005-GW	11/15/2024	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- and Unknown were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
600C-005-GW	11/15/2024	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- (700 ug/L) and Unknown (4 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
400-001-GW	11/19/2024	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.

Well ID	Event Date	SW-846 Method 8270D QA Narratives
400-001-GW	**11/19/2024**	**For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl-, Unknown, and n-Hexadecanoic acid were tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
400-001-GW	**11/19/2024**	**For SW-846 Method 8270, analyte Butane,2-methoxy-2-methyl- was detected in the field blank.**
BW-4-330	**11/27/2024**	**For SW-846 Method 8270, in sample (2411270928C) analytes Butane, 2-methoxy-2-methyl- and Trichloroethene (TCE) were tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BW-4-330	**11/27/2024**	**For SW-846 Method 8270, in sample (2411270928C) analytes Butane, 2-methoxy-2-methyl- (690 ug/L) and Trichloroethene (TCE) (6.9 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-4-330	**11/27/2024**	**For SW-846 Method 8270, analyte Butane, 2-methoxy-2-methyl- was detected in the method blank.**

Well ID	Event Date	Total Metals QA Narratives
BLM-2-630	**11/6/2024**	**For Total Metals, multiple analytes had reported result that was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-17-493	**11/7/2024**	**For Total Metals, multiple analytes result were estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-3-182	**11/7/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-5-295	11/8/2024	For Total Metals, there were no detections in the field blank.
BW-5-295	**11/8/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-C-143	**11/12/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-795	**11/14/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-1-541	**11/14/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-001-GW	**11/15/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-D-176	**11/15/2024**	**For Total Metals, analytes Vanadium, Total (0.002 mg/L) and Antimony, Total (0.003 mg/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-490	**11/15/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-675	**11/15/2024**	**For Total Metals, Calcium, Total was detected in the equipment blank (2411150816Y) at 0.4 mg/L. Magnesium, Total was detected in the equipment blank (2411150816Y) at 0.1 mg/L. Strontium, Total was detected in the equipment blank (2411150816Y) at 0.02 mg/L. Zinc, Total was detected in the equipment blank (2411150816Y) at 0.019 mg/L.**
200-I-675	**11/15/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	Total Metals QA Narratives
600C-005-GW	11/15/2024	For Total Metals, relative percent differences (RPD) for duplicate samples 2411151034A and 2411151035A were within control limits or below the calculable range.
600C-005-GW	**11/15/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-300	**11/18/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-375	**11/18/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-001-GW	**11/19/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
NASA 6	**11/20/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
NASA 6	**11/20/2024**	**For Total Metals, field duplicate samples 2411201035C and 2411201036C the relative percent difference for Chromium, Total was 34.7%. This value is outside the upper acceptance limit for relative percent difference of 25%.**
BW-4-330	**11/27/2024**	**For Total Metals, in sample (multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	Miscellaneous QA Narratives
400-C-143	**11/12/2024**	**For SW-846 Method 8290, the analyte Total Tetra-Furans (1.91 pg/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
200-I-795	11/14/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading.
ST-1-541	11/14/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading.
100-D-176	11/15/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading. A corrected EDD file was requested from the laboratory, however, one has not been provided.
100-D-176	**11/15/2024**	**For SW-846 Method 8015C, Sample 2411150755C was excluded from the EDD file and was manually entered into the database records based on the data in the laboratory provided analytical report. A corrected EDD file was requested from the laboratory, however, one has not been provided.**
200-I-490	11/15/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading.
200-I-490	**11/15/2024**	**For EPA Method 353.2, analyte Nitrate+Nitrate as Nitrogen (0.007 mg/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-I-675	11/15/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading.
600C-005-GW	11/15/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading.
600-C-173	11/15/2024	For all analyses reported in ALS R2411807, each EDD record was duplicated once. The EDD file was revised to remove duplicate records for loading.
600-C-173	11/15/2024	For EPA Method 300, there were no detections in the field blank.
600-C-173	**11/15/2024**	**For EPA Method 351.2, Nitrogen, Total Kjeldahl (TKN) was detected in the field blank (2411150948C) at 0.3 ug/L.**

Well ID	Event Date	Miscellaneous QA Narratives
600-C-173	**11/15/2024**	**For EPA Method 351.2, Nitrogen, Total Kjeldahl (TKN) (0.19 mg/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
600-C-173	11/15/2024	For EPA Method 353.2, there were no detections in the field blank.
600-C-173	11/15/2024	For TDS, there were no detections in the field blank.
200-I-300	**11/18/2024**	**For EPA Method 351.2, analyte Nitrogen, Total Kjeldahl (TKN) (0.16 mg/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-4-330	**11/27/2024**	**For SW-846 Method 6850, analyte Perchlorate was analyzed outside of the standard holding time.**
BW-4-330	**11/27/2024**	**For SW-846 Method 6850, the sample in this delivery group was received by the laboratory with over one-half of the holding time expended. At the time of receipt, the instrumentation for this method was experiencing issues and required repair that was not completed in time to analyze the sample within the holding time. Analysis was performed as soon as possible upon repair of the instrumentation.**

Table 8 – WSTF Blank Sample Detections

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
BLM-36-860	06-Nov-24	Carboy G3	8260	VOA-EB	TIC	Unknown	15	ug/L	J TIC
BLM-32-543	04-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC
ST-4-589	05-Nov-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
BLM-32-571	04-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC
BLM-36-610	06-Nov-24	Carboy	8260	VOA-EB	TIC	Unknown	13	ug/L	J TIC
BLM-2-630	06-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-24-565	04-Nov-24	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-32-632	04-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC
ST-4-690	05-Nov-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-8-418	04-Nov-24	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-8-418	04-Nov-24	Carboy G3	8260_LL	VOA-TB	TIC	Unknown	11	ug/L	J TIC
B655-EFF-2	18-Nov-24	Carboy PF1	8260_LL	VOA-TB	TIC	Unknown	5.8	ug/L	J TIC
NASA 6	20-Nov-24	Carboy	8260	VOA-FB	TIC	Unknown	5.6	ug/L	J TIC
B650-EFF-1	18-Nov-24	Carboy PF1	8260_LL	VOA-FB	TIC	Unknown	5.5	ug/L	J TIC
B655-EFF-2	18-Nov-24	Carboy PF1	8260_LL	VOA-FB	TIC	Unknown	5.4	ug/L	J TIC
MPE-11	19-Nov-24	Carboy PF1	8260	VOA-FB	TIC	Unknown	5.2	ug/L	J TIC
BW-5-295	08-Nov-24	Carboy G1	8260	VOA-FB	7446-09-5	Sulfur Dioxide	5.1	ug/L	J TIC FB
BLM-17-493	07-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	5	ug/L	J TIC
ST-1-630	18-Nov-24		8260	VOA-FB	78-93-3	2-Butanone (MEK)	2.6	ug/L	J FB
400-001-GW	19-Nov-24	Carboy G1	8260	VOA-FB	78-93-3	2-Butanone (MEK)	1.3	ug/L	J FB
BLM-38-480	13-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	1.17	ng/L	EB

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
BLM-38-620	13-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.96	ng/L	EB
B650-EFF-1	18-Nov-24	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.94	ng/L	A K RB FB
ST-5-655	12-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.84	ng/L	EB
B655-EFF-2	18-Nov-24	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.67	ng/L	A K RB TB FB
B655-EFF-2	18-Nov-24	Carboy PF1	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.65	ng/L	A K RB TB FB
PL-7-560	14-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.56	ng/L	EB
200-I-675	15-Nov-24	Carboy G3	METALS	METALS-EB	7440-70-2	Calcium, Total	0.4	mg/L	J EB
BLM-2-630	06-Nov-24	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.38	ng/L	J K FB
BLM-32-543	04-Nov-24	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.35	ng/L	J K FB
600-C-173	15-Nov-24	Carboy G2 / DP-392	351.2	TKN-FB	7727-37-9	Nitrogen, Total Kjeldahl (TKN)	0.3	mg/L	FB
200-I-675	15-Nov-24	Carboy G3	METALS	METALS-EB	7439-95-4	Magnesium, Total	0.1	mg/L	J EB
200-I-675	15-Nov-24	Carboy G3	METALS	METALS-EB	7440-24-6	Strontium, Total	0.02	mg/L	J EB
200-I-675	15-Nov-24	Carboy G3	METALS	METALS-EB	7440-66-6	Zinc, Total	0.019	mg/L	J EB
BLM-36-860	06-Nov-24	Carboy G3	8260	VOA-EB	TIC	Unknown	15	ug/L	J TIC
BLM-32-543	04-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC
ST-4-589	05-Nov-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
BLM-32-571	04-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC
BLM-36-610	06-Nov-24	Carboy	8260	VOA-EB	TIC	Unknown	13	ug/L	J TIC
BLM-2-630	06-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-24-565	04-Nov-24	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-32-632	04-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC
ST-4-690	05-Nov-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-8-418	04-Nov-24	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-8-418	04-Nov-24	Carboy G3	8260_LL	VOA-TB	TIC	Unknown	11	ug/L	J TIC
B655-EFF-2	18-Nov-24	Carboy PF1	8260_LL	VOA-TB	TIC	Unknown	5.8	ug/L	J TIC
NASA 6	20-Nov-24	Carboy	8260	VOA-FB	TIC	Unknown	5.6	ug/L	J TIC
B650-EFF-1	18-Nov-24	Carboy PF1	8260_LL	VOA-FB	TIC	Unknown	5.5	ug/L	J TIC
B655-EFF-2	18-Nov-24	Carboy PF1	8260_LL	VOA-FB	TIC	Unknown	5.4	ug/L	J TIC
MPE-11	19-Nov-24	Carboy PF1	8260	VOA-FB	TIC	Unknown	5.2	ug/L	J TIC
BW-5-295	08-Nov-24	Carboy G1	8260	VOA-FB	7446-09-5	Sulfur Dioxide	5.1	ug/L	J TIC FB

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
BLM-17-493	07-Nov-24	Carboy G1	8260	VOA-FB	TIC	Unknown	5	ug/L	J TIC
ST-1-630	18-Nov-24		8260	VOA-FB	78-93-3	2-Butanone (MEK)	2.6	ug/L	J FB
400-001-GW	19-Nov-24	Carboy G1	8260	VOA-FB	78-93-3	2-Butanone (MEK)	1.3	ug/L	J FB
BLM-38-480	13-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	1.17	ng/L	EB
BLM-38-620	13-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.96	ng/L	EB
B650-EFF-1	18-Nov-24	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.94	ng/L	A K RB FB
ST-5-655	12-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.84	ng/L	EB
B655-EFF-2	18-Nov-24	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.67	ng/L	A K RB TB FB
B655-EFF-2	18-Nov-24	Carboy PF1	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.65	ng/L	A K RB TB FB
PL-7-560	14-Nov-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.56	ng/L	EB
200-I-675	15-Nov-24	Carboy G3	METALS	METALS-EB	7440-70-2	Calcium, Total	0.4	mg/L	J EB

National Aeronautics and Space Administration



Quality Assurance Report for White Sands Test Facility Groundwater Monitoring Data

December 2024

NM8800019434

Report Submitted: April 2025

Report Prepared by:
Stephanie Portillo
Environmental Scientist IV
Navarro Research and Engineering, Inc.

1.0 Introduction

The WSTF Groundwater Monitoring Plan (GMP) requires the preparation of a periodic report to assess the quality of groundwater analytical data reported. The monthly Quality Assurance Report (QAR) prepared and reviewed by responsible environmental contractor data management personnel provides the following information:

- A summary of notable anomalies and a follow-up on previous anomalies, if necessary.
- A summary of notable data quality issues by analytical method, if any.
- A list of the sample events for which groundwater samples were collected in December 2024.
- The quantity and type of quality control samples collected or prepared in December 2024.
- Quality control sample percentages in annual period immediately preceding and during December 2024.
- Definitions of data qualifiers used in WSTF analytical data reporting.
- The quantity and type of data qualifiers applied to individual analytical results.
- A list of quality assurance narratives for the month arranged by analytical method.
- A summary table of detections in equipment blank, field blank, and trip blank samples.

2.0 Data Quality

2.1 Notable Anomalies Identified in Previous Quality Assurance Reports

There were no notable anomalies requiring follow-up associated with previous QARs.

2.2 Notable Anomalies

There were no notable anomalies in the groundwater data associated with the December 2024 QAR.

3.0 Data Tables

Table 1 summarizes the groundwater sample events initiated in December 2024. This report is based on data quality issues related to the sample events listed in Table 1. Tables 2 through 8 contain information related to the sample events identified in Table 1. As specified by the GMP, specific quality control samples are utilized to assess the quality of analytical data. Table 2 presents the quantity of quality control samples collected for each analytical method. Table 3 compares the quality control sample percentages collected to the requirements in the GMP. When data quality criteria are not met, data qualifiers are applied to the data. Definitions of data qualifiers used for WSTF chemical analytical data are listed in Table 4. Table 5 and Table 6 present the total number of individual result records and summarize the quantity of field and laboratory data qualifiers assigned to individual analyte result records in the WSTF analytical database. Table 7 provides all quality assurance narratives associated with the sample events in Table 1. Narratives associated with qualified data are identified by **bold text** in Table 7. Table 8 provides a summary of all detections in WSTF blank samples.

Table 1 – Sample Events for December 2024

Well ID	Event Date
200-G-420	02-Dec-24
200-G-495	02-Dec-24
700-B-510	02-Dec-24
PL-11-470	02-Dec-24
PL-11-530	02-Dec-24
PL-4-464	02-Dec-24
200-G-220	03-Dec-24
200-G-340	03-Dec-24
PL-11-710	03-Dec-24
PL-11-820	03-Dec-24
PL-11-980	03-Dec-24
200-G-175	04-Dec-24
ST-6-528	04-Dec-24
ST-6-568	04-Dec-24
WW-1-452	04-Dec-24

Well ID	Event Date
WW-3-569	04-Dec-24
B650-EFF-1	05-Dec-24
B650-INF-1	05-Dec-24
B655-EFF-2	05-Dec-24
B655-INF-2	05-Dec-24
ST-3-586	05-Dec-24
ST-3-735	05-Dec-24
ST-6-678	05-Dec-24
ST-6-824	05-Dec-24
ST-6-970	05-Dec-24
WW-3-469	05-Dec-24
PL-8-455	06-Dec-24

Well ID	Event Date
PL-8-605	06-Dec-24
ST-3-486	06-Dec-24
ST-3-666	06-Dec-24
WW-2-489	06-Dec-24
WW-2-664	06-Dec-24
600A-001-GW-1	09-Dec-24
BLM-42-569	09-Dec-24
BLM-42-709	09-Dec-24
BLM-7-509	09-Dec-24
ST-4-481	09-Dec-24
600A-002-GW-1	10-Dec-24
BLM-27-270	10-Dec-24

Well ID	Event Date
BW-7-211	10-Dec-24
400-EV-131	11-Dec-24
400-FV-131	11-Dec-24
400-GV-125	11-Dec-24
400-HV-147	11-Dec-24
400-IV-123	11-Dec-24
400-JV-150	11-Dec-24
300-001-GSV	12-Dec-24
300-002-GSV	16-Dec-24
PL-2-504	16-Dec-24

Table 2 – Quantity of Quality Control Samples

Method	Samples	Field Blanks	Equip Blanks	Trip Blanks	Blind Controls	Duplicates	Matrix Spikes
Chloride by EPA Method 300.0	**1**	0	0	0	0	0	0
Total Kjeldahl Nitrogen	**1**	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**7**	0	0	0	0	0	0
Nitrosamines by EPA Method 607	**27**	0	0	0	**1**	**5**	0
Perchlorate by SW-846 Method 6850	**6**	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**26**	**20**	**6**	**2**	**1**	**6**	0
Low Level Volatile Organics by SW-846 Method 8260C	**23**	**19**	**4**	**4**	0	**1**	**2**
Semi-Volatile Organics by SW-846 Method 8270D	**16**	0	0	0	0	0	0
Anions by Various EPA Methods	**6**	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**18**	**1**	**1**	0	**1**	**3**	0
Nitrosamines by Low-Level Method	**25**	**21**	**4**	**5**	**1**	**3**	**1**
Total Dissolved Solids by Standard Method 2540C	**5**	0	0	0	0	0	0

Table 3 – Quality Control Sample Percentages

Quality Control Requirement	Requirement %	Samp. Qty. since December 2023	QC Qty. December 2023	QC % since December 2023	Sample Quantity December 2024	QC Quantity December 2024	QC % December 2024
VOA Duplicates	**10**	630	78	**12.38**	43	5	**11.63**
VOA Matrix Spikes	**2**	630	13	**2.06**	43	2	**4.65**
607 Duplicates	**10**	344	38	**11.05**	21	3	**14.29**
607 Matrix Spikes	**2**	344	9	**2.62**	21	0	**0.00**
607 Equipment Blanks	**2**	344	7	**2.03**	21	0	**0.00**
607 Field Blanks	**2**	344	11	**3.20**	21	0	**0.00**
NDMA_LL Duplicates	**10**	376	40	**10.64**	25	3	**12.00**
NDMA_LL Matrix Spikes	**2**	376	13	**3.46**	25	1	**4.00**
Metals Duplicates	**10**	252	30	**11.90**	12	1	**8.33**
Metals Matrix Spikes	**2**	252	5	**1.98**	12	0	**0.00**
Metals Equipment Blanks	**5**	252	11	**4.37**	12	1	**8.33**
Metals Field Blanks	**5**	252	18	**7.14**	12	1	**8.33**

Quality Control Requirement	Requirement %	Sample Events since December 2023	QC Qty. since December 2023	QC % since December 2023	Sample Events December 2024	QC Quantity December 2024	QC % December 2024
VOA Equipment Blanks and Field Blanks	*Should approach 100%*	623	617	**99.04%**	43	43	**100%**
Low Level Nitrosamine Equipment Blanks and Field Blanks	*Should approach 100%*	371	371	**100%**	25	25	**100%**

Quality Control Requirement	Requirement %	Shipments since December 2023	TB Qty. since December 2023	TB % since December 2023	Shipments in December 2024	TB Quantity December 2024	QC % December 2024
VOA Trip Blank (per shipment)	*Should approach 100%*	103	103	**100%**	6	6	100%
Low Level Nitrosamine Trip Blank (per shipment)	*Should approach 100%*	92	92	**100%**	6	6	100%

Table 4 – Definitions of Data Qualifiers

Qualifier	Definition
*	User defined qualifier. See quality assurance narrative.
A	The result of an analyte for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.
AD	Relative percent difference for analyst (laboratory) duplicates was outside standard limits.
D	The reported result is from a dilution.
EB	The analyte was detected in the equipment blank.
FB	The analyte was detected in the field blank.
G	The result is an estimated value greater than the upper calibration limit.
i	The result, quantitation limit, and/or detection limit may have been affected by matrix interference.
J	The result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.
K	The peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration.
NA	The value/result was either not analyzed for or not applicable.
ND	The analyte was not detected above the detection limit.
Q	The result for a blind control sample was outside standard limits.
QD	The relative percent difference for a field duplicate was outside standard limits.
R	The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
RB	The analyte was detected in the method blank.
S	The result was determined by the method of standard addition.
SP	The matrix spike recovery and/or the relative percent difference for matrix spike duplicates was outside standard limits.
T	The sample was analyzed outside the specified holding time or temperature.
TB	The analyte was detected in the trip blank.
TIC	The analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.

Table 5 – Quantity of Field Based Data Qualifiers Assigned to Individual Result Records

Method	Total Result Records	FB	EB	TB	Q	QD	SP	R
Chloride by EPA Method 300.0	**1**	0	0	0	0	0	0	0
Total Kjeldahl Nitrogen	**1**	0	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**6**	0	0	0	0	0	0	0

Method	Total Result Records	FB	EB	TB	Q	QD	SP	R
Nitrosamines by EPA Method 607	**108**	0	0	0	0	**2**	0	**9**
Perchlorate by SW-846 Method 6850	**6**	0	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**2080**	0	0	0	**4**	**2**	0	0
Low Level Volatile Organics by SW-846 Method 8260C	**1560**	0	0	0	0	0	0	0
Semi-Volatile Organics by SW-846 Method 8270D	**493**	0	0	0	0	**1**	0	0
Anions by Various EPA Methods	**24**	0	0	0	0	0	**1**	0
Total Metals by Various SW-846 Methods	**567**	0	**1**	0	0	0	0	0
Nitrosamines by Low-Level Method	**56**	**6**	**1**	**1**	0	0	0	0
Total Dissolved Solids by Standard Method 2540C	**5**	0	0	0	0	0	0	0

Table 6 – Quantity of Laboratory based Data Qualifiers Assigned to Individual Result Records

Method	Total Result Records	*	A	AD	G	RB	T	D	i	J	K
Chloride by EPA Method 300.0	**1**	0	0	0	0	0	0	0	0	0	0
Total Kjeldahl Nitrogen	**1**	0	0	0	0	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**6**	0	0	0	0	0	0	0	0	**1**	0
Nitrosamines by EPA Method 607	**108**	**10**	0	0	**6**	0	0	**10**	0	**4**	0
Perchlorate by SW-846 Method 6850	**6**	0	0	0	0	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**2080**	0	0	0	0	0	0	**4**	0	**49**	0
Low Level Volatile Organics by SW-846 Method 8260C	**1560**	0	0	0	0	0	0	0	0	**5**	0
Semi-Volatile Organics by SW-846 Method 8270D	**493**	0	0	0	0	0	0	0	0	**16**	0
Anions by Various EPA Methods	**24**	0	0	0	0	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**567**	0	0	0	0	0	0	0	0	**127**	0
Nitrosamines by Low-Level Method	**56**	0	**5**	0	0	**5**	0	0	0	**5**	**16**
Total Dissolved Solids by Standard Method 2540C	**5**	0	0	0	0	0	0	0	0	0	0

Table 7 – Quality Assurance Narratives

Well ID	Event Date	SW-846 Method 8260C QA Narratives
200-G-420	12/2/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-G-420	**12/2/2024**	**For SW-846 Method 8260 Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
200-G-420	**12/2/2024**	**For SW-846 Method 8260 Unknown (14 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-420	**12/2/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2412021345Y) at 14.0 ug/L.**
200-G-495	12/2/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-G-495	**12/2/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
200-G-495	**12/2/2024**	**For SW-846 Method 8260, Unknown (13 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-495	**12/2/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2412020950Y) at 13.0 ug/L.**
700-B-510	12/2/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
700-B-510	**12/2/2024**	**For SW-846 Method 8260, Unknown (28 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
700-B-510	**12/2/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
700-B-510	**12/2/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2412020941C) at 14.0 ug/L.**
PL-11-470	**12/2/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412021222B) at 14.0 ug/L.**
PL-11-470	**12/2/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2412020750B) at 12.0 ug/L.**
PL-11-470	**12/2/2024**	**For Low Level SW-846 Method 8260, for sample (2412020750B), Unknown (12 ug/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-470	**12/2/2024**	**For Low Level SW-846 Method 8260, for sample (2412021221B), multiple analytes were estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-470	**12/2/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-11-470	**12/2/2024**	**For Low Level SW-846 Method 8260, for sample (2412021221B), Unknown (14 ug/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-530	**12/2/2024**	**For Low Level SW-846 Method 8260 Unknown (41 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-530	12/2/2024	For Low Level SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2412021236B and 2412021238B were within control limits or below the calculable range.
PL-11-530	**12/2/2024**	**For Low Level SW-846 Method 8260 Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-4-464	12/2/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-4-464	**12/2/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-4-464	**12/2/2024**	**For SW-846 Method 8260, Unknown (37 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-4-464	**12/2/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412021451C) at 14.0 ug/L.**
200-G-220	12/3/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit

Well ID	Event Date	SW-846 Method 8260C QA Narratives
		(MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-G-220	**12/3/2024**	**For SW-846 Method 8260, for sample (2412031410 Y) analytes Unknown (14 ug/L) and 1,1,2-Trichloro-1,2,2-Trifluoroethane (0.53 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-220	**12/3/2024**	**For SW-846 Method 8260, for sample (2412021300 Y) Unknown (14 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-220	**12/3/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
200-G-220	**12/3/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2412031300Y) at 14.0 ug/L.**
200-G-340	12/3/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-G-340	**12/3/2024**	**For SW-846 Method 8260, Unknown (13 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-340	**12/3/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2412030920Y) at 13.0 ug/L.**
200-G-340	**12/3/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-11-710	12/3/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-11-710	**12/3/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412031216B) at 15.0 ug/L.**
PL-11-710	**12/3/2024**	**For Low Level SW-846 Method 8260, Unknown (41 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-710	**12/3/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-11-710	**12/3/2024**	**For low Level SW-846 Method 8260C, PL-11-710 sample 2412031215B is incorrectly reported as well "2412021215B" in the analytical report and the associated EDD file due to a laboratory error. The well and sample ID in the database was corrected to match the chain of custody and the logbook.**
PL-11-820	12/3/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-11-820	**12/3/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412031232B) at 12.0 ug/L.**
PL-11-820	**12/3/2024**	**For Low Level SW-846 Method 8260, Unknown (38 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-820	**12/3/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-11-980	12/3/2024	Forl SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit

Well ID	Event Date	SW-846 Method 8260C QA Narratives
		(MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected anno further corrective action was taken.
PL-11-980	**12/3/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412031252B) at 14.0 ug/L.**
PL-11-980	**12/3/2024**	**For Low Level SW-846 Method 8260, analytes Unknown (32 ug/L) and Toluene (0.23 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-11-980	**12/3/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
200-G-175	12/4/2024	For SW-846 Method 8260 The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
200-G-175	**12/4/2024**	**For SW-846 Method 8260C, field duplicate samples 2412041000Y and 2412041001Y the relative percent difference for Trichlorofluoromethane (CFC 11) was 44.8%. This value is outside the upper acceptance limit for relative percent difference of 25%.**
200-G-175	**12/4/2024**	**For SW-846 Method 8260C, Unknown was detected in the equipment blank (2412040910Y) at 12.0 ug/L.**
200-G-175	**12/4/2024**	**For SW-846 Method 8260 Unknown (12 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-6-528	**12/4/2024**	**For Low Level SW-846 Method 8260 Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-6-528	**12/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412041240B) at 13.0 ug/L.**
ST-6-528	**12/4/2024**	**For Low Level SW-846 Method 8260 Unknown (36 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-6-528	12/4/2024	For SW-846 Method 8260 The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-6-568	12/4/2024	For Low Level SW-846 Method 8260D The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-6-568	**12/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412041312B) at 13.0 ug/L.**
WW-1-452	**12/4/2024**	**For Low Level SW-846 Method 8260, Unknown (10 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-1-452	**12/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2412041245C) at 10.0 ug/L.**
WW-1-452	**12/4/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WW-1-452	12/4/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-1-452	**12/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412041426C) at 12.0 ug/L.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
WW-3-569	**12/4/2024**	**For Low Level SW-846 Method 8260, due to a chain of custody error sample 2412041350Y was incorrectly reported by the lab as "2412041351Y". The sample number has been corrected to match the logbook.**
WW-3-569	12/4/2024	For Low Level SW-846 Method 8260C, matrix spike recoveries for sample 2412050921Y were within laboratory control limits.
WW-3-569	12/4/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-3-569	**12/4/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WW-3-569	**12/4/2024**	**For Low Level SW-846 Method 8260, Unknown (35 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-3-569	**12/4/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the equipment blank (2412041350Y) at 13.0 ug/L.**
B650-EFF-1	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B650-EFF-1	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412050906) at 12.0 ug/L.**
B650-INF-1	**12/5/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412050921) at 12.0 ug/L.**
B650-INF-1	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B650-INF-1	**12/5/2024**	**For SW-846 Method 8260, analytes Unknown (37 ug/L) and Tetrachloroethene (PCE) (0.65 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B650-INF-1	**12/5/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
B655-EFF-2	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B655-EFF-2	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
B655-EFF-2	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412050954) at 12.0 ug/L.**
B655-EFF-2	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown (33 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-INF-2	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B655-INF-2	**12/5/2024**	**For SW-846 Method 8260, Unknown (40 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
B655-INF-2	**12/5/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
B655-INF-2	12/5/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2412051010 and 2412051011 were within control limits or below the calculable range.
B655-INF-2	**12/5/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412051012) at 11.0 ug/L.**
ST-3-586	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-3-586	**12/5/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-3-586	**12/5/2024**	**For SW-846 Method 8260, analytes Unknown (36 ug/L), Trichloroethene (TCE) (0.6 ug/L), and Trichlorofluoromethane (0.39 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-3-586	12/5/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2412050940C and 2412050941C were within control limits or below the calculable range.
ST-3-586	**12/5/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412050942C) at 12.0 ug/L.**
ST-3-735	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-3-735	**12/5/2024**	**For SW-846 Method 8260, analytes Unknown (36 ug/L) and Tetrachloroethene (CPE) (0.32 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-3-735	**12/5/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-3-735	**12/5/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412051431C) at 13.0 ug/L.**
ST-6-678	12/5/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-6-678	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-6-678	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412051202B) at 12.0 ug/L.**
ST-6-678	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown (11 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-6-678	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2412050730B) at 11.0 ug/L.**
ST-6-824	12/5/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-6-824	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown (31 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
ST-6-824	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-6-824	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412051224B) at 12.0 ug/L.**
ST-6-970	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-6-970	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown (29 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-6-970	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412051252B) at 11.0 ug/L.**
WW-3-469	12/5/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-3-469	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WW-3-469	**12/5/2024**	**For Low Level SW-846 Method 8260, Unknown (12 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-3-469	**12/5/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the equipment blank (2412051030Y) at 12.0 ug/L.**
PL-8-455	12/6/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-8-455	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown (12 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-8-455	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-8-455	**12/6/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the equipment blank (2412061230Y) at 12.0 ug/L.**
PL-8-605	12/6/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-8-605	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-8-605	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown (11 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-8-605	**12/6/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the equipment blank (2412060900Y) at 11.0 ug/L.**
ST-3-486	**12/6/2024**	**For SW-846 Method 8260, analytes Unknown (36 ug/L) and Tetrachloroethene (PCE) (0.25 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-3-486	**12/6/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-3-486	**12/6/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412060927C) at 12.0 ug/L.**
ST-3-486	12/6/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this

Well ID	Event Date	SW-846 Method 8260C QA Narratives
		sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-3-666	**12/6/2024**	**For SW-846 Method 8260, analytes Unknown (37 ug/L) and Tetrachloroethene (PCE) (0.23 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-3-666	**12/6/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-3-666	**12/6/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412061224C) at 13.0 ug/L.**
ST-3-666	12/6/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-2-489	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WW-2-489	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown (34 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-2-489	**12/6/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412061015A) at 11.0 ug/L.**
WW-2-664	12/6/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-2-664	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown (29 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-2-664	**12/6/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412061140A) at 13.0 ug/L.**
WW-2-664	**12/6/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
600A-001-GW-1	**12/9/2024**	**For SW-846 Method 8260, Unknown (31 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
600A-001-GW-1	**12/9/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
600A-001-GW-1	12/9/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
600A-001-GW-1	**12/9/2024**	**For SW-846 Method 8260D, Unknown was detected in the field blank (2412091001B) at 12.0 ug/L.**
BLM-42-569	12/9/2024	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken
BLM-42-569	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown (37 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-42-569	**12/9/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412091402A) at 13.0 ug/L.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
BLM-42-569	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-42-709	12/9/2024	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken
BLM-42-709	12/9/2024	For Low Level SW-846 Method 8260C, matrix spike recoveries for sample 2412091002A were within laboratory control limits.
BLM-42-709	**12/9/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412091001A) at 12.0 ug/L.**
BLM-42-709	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-42-709	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown (13 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-7-509	12/9/2024	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-7-509	**12/9/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2412090720C) at 11.0 ug/L.**
BLM-7-509	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-7-509	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown (11 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-7-509	**12/9/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412090911C) at 13.0 ug/L.**
ST-4-481	12/9/2024	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
ST-4-481	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
ST-4-481	**12/9/2024**	**For Low Level SW-846 Method 8260, Unknown (35 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-4-481	**12/9/2024**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2412091419C) at 13.0 ug/L.**
600A-002-GW-1	12/10/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
600A-002-GW-1	**12/10/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412101326C) at 12.0 ug/L.**
600A-002-GW-1	**12/10/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
600A-002-GW-1	12/10/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Well ID	Event Date	SW-846 Method 8260C QA Narratives
600A-002-GW-1	**12/10/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
BLM-27-270	**12/10/2024**	**For SW-846 Method 8260, analyte Trichlorofluoromethane (CFC 11) reported result was from a dilution.**
BLM-27-270	**12/10/2024**	**For SW-846 Method 8260, analytes Unknown (35 ug/L) and Trichloroethene (TCE) (0.87 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-27-270	12/10/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-27-270	12/10/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-27-270	12/10/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-27-270	**12/10/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412100931A) at 9.8 ug/L.**
BLM-27-270	**12/10/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03 and RQ2416180-03**
BLM-27-270	12/10/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2412100930A and 2412100932A were within control limits or below the calculable range.
BLM-27-270	**12/10/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
BW-7-211	**12/10/2024**	**For SW-846 Method 8260, analytes Unknow (11 ug/L) and Trichlorofluoromethane (CFC 11) (0.75 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-7-211	**12/10/2024**	**For SW-846 Method 8260, analytes Unknown (37 ug/L) and Dichlorofluoromethane (CFC 21) (0.28 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-7-211	**12/10/2024**	**For SW-846 Method 8260, multiple analytes result fro a blind control sample was outside standard limits.**
BW-7-211	12/10/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BW-7-211	**12/10/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03 and RQ2416180-03**
BW-7-211	**12/10/2024**	**For SW-846 Method 8260D, Unknown was detected in the field blank (2412101400A) at 13.0 ug/L.**
BW-7-211	**12/10/2024**	**For SW-846 Method 8260D in blind control sample (2409231320C), the percent recovery for 1,1,2-trichloro-1,2,2-trifluoroethane (9%), trichloroethene (15%) tetrachloroethene (14%), and trichlorofluoromethane (4%) were outside of the standard limits (75-125%). Affected data are appropriately qualified.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
BW-7-211	**12/10/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
400-EV-131	**12/11/2024**	**For SW-846 Method 8260, analyte Trichlorofluoromethane (CFC 11) (370 ug/L) reported result is from a dilution.**
400-EV-131	**12/11/2024**	**For SW-846 Method 8260, analytes Unknown (42 ug/L) and Dichlorofluoromethane (CFC 21) (0.33 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-EV-131	12/11/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
400-EV-131	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03 and RQ2416180-03**
400-EV-131	**12/11/2024**	**For SW-846 Method 8260D, Unknown was detected in the field blank (2412110946A) at 12.0 ug/L.**
400-EV-131	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
400-FV-131	12/11/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
400-FV-131	**12/11/2024**	**For SW-846 Method 8260, analytes Unknown (48 ug/L) and Toluene (0.31 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-FV-131	12/11/2024	For SW-846 Method 8260D, there were no detections in the trip blank.
400-FV-131	**12/11/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412110937C) at 14.0 ug/L.**
400-FV-131	12/11/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2412110935C and 2412110936C were within control limits or below the calculable range.
400-FV-131	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
400-GV-125	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
400-GV-125	**12/11/2024**	**For SW-846 Method 8260D, field duplicate samples 2412111110C and 2412111111C the relative percent difference for Trichlorofluoromethane (CFC 11) was 12.8%. Upper acceptance limit for relative percent difference is 25%.**
400-GV-125	**12/11/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-GV-125	12/11/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
400-GV-125	12/11/2024	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2412111110C and 2412111111C were within control limits or below the calculable range.
400-GV-125	**12/11/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412111112C) at 11.0 ug/L.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
400-GV-125	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416180-03.**
400-HV-147	**12/11/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-HV-147	12/11/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
400-HV-147	**12/11/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412111031A) at 13.0 ug/L.**
400-HV-147	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03.**
400-IV-123	**12/11/2024**	**For SW-846 Method 8260, analyte Unknown (31 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-IV-123	12/11/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
400-IV-123	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03 and RQ2416180-03**
400-IV-123	**12/11/2024**	**For SW-846 Method 8260D, Unknown was detected in the field blank (2412111351A) at 11.0 ug/L.**
400-JV-150	**12/11/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-JV-150	**12/11/2024**	**For SW-846 Method 8260, analyte Trichlorofluoromethane (CFC 11) reported result is from a dilution.**
400-JV-150	12/11/2024	For SW-846 Method 8260D, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
400-JV-150	**12/11/2024**	**For SW-846 Method 8260D, Unknown was detected in the field blank (2412111237C) at 11.0 ug/L.**
400-JV-150	**12/11/2024**	**For SW-846 Method 8260D, one unknown unknown compound was tentatively identified by a GC/MS library search in the method blank for analytical batch RQ2416107-03 and RQ2416180-03**
300-001-GSV	12/12/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
300-001-GSV	**12/12/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412121336C) at 15.0 ug/L.**
300-001-GSV	**12/12/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
300-001-GSV	**12/12/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	SW-846 Method 8260C QA Narratives
300-002-GSV	**12/16/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412161346C) at 11.0 ug/L.**
300-002-GSV	**12/16/2024**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
300-002-GSV	**12/16/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
300-002-GSV	12/16/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-2-504	**12/16/2024**	**For SW-846 Method 8260, Unknown (14 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-2-504	**12/16/2024**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2412161011A) at 13.0 ug/L.**
PL-2-504	**12/16/2024**	**For SW-846 Method 8260C, Unknown was detected in the trip blank (2412160820A) at 14.0 ug/L.**
PL-2-504	**12/16/2024**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PL-2-504	**12/16/2024**	**For SW-846 Method 8260, for sample (2412161010A) multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-2-504	12/16/2024	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Well ID	Event Date	Modified EPA Method 607 QA Narratives
B650-INF-1	**12/5/2024**	**For Modified EPA Method 607, analyte Bromacil (0.007 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit. No correction needed.**
ST-3-586	12/5/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2412050943C and 2412050944C were within control limits or below the calculable range.
600A-001-GW-1	**12/9/2024**	**For Modified EPA Method 607, analyte Bromacil results are from a dilution.**
600A-001-GW-1	**12/9/2024**	**For Modified EPA Method 607, sample 2412091002B was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
600A-001-GW-1	**12/9/2024**	**For Modified EPA Method 607, analyte Bromacil is an estimated value greater than the upper calibration limit**
BLM-27-270	**12/10/2024**	**For Modified EPA Method 607, field duplicate samples 2412100933A and 2412100934A the relative percent difference for N-Nitrosodimethylamine was 5.4%. Upper acceptance limit for relative percent difference is 25%.**
BLM-27-270	12/10/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2412100933A and 2412100934A were within control limits or below the calculable range.
BW-7-211	**12/10/2024**	**For Modified EPA Method 607, sample 2412101401A was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
BW-7-211	**12/10/2024**	**For Modified EPA Method 607, analytes NDMA and Bromacil were diluted 10 fold for reanalysis due to target analytes exceeding calibration curve.**

Well ID	Event Date	Modified EPA Method 607 QA Narratives
BW-7-211	**12/10/2024**	**For Modified EPA Method 607, analytes Bromacil, and N-Nitrosodimethylamine results are from a dilution.**
400-EV-131	**12/11/2024**	**For Modified EPA Method 607, analytes NDMA, DMN, and Bromacil results are from a dilution. Bromacil was diluted 5-fold for reanalysis due to target analytte exceeding calibration curve.**
400-EV-131	**12/11/2024**	**For Modified EPA Method 607, original results for Bromacil in sample 2412110947A exceeded the callibration curve and are rejected due to sample dilution 5-fold for reanalysis. Diluted bromacil sample is retained and the original sample is maintained in the Q_disk only.**
400-EV-131	**12/11/2024**	**For Modified EPA Method 607, sample 2412110947A was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
400-EV-131	**12/11/2024**	**For Modified EPA Method 607, analytes Bromacil, NDMA, and DMN results are from dilutions.**
400-EV-131	**12/11/2024**	**For Modified EPA Method 607, analyte Bromacil result was an estimated value greater than the upper calibration limit.**
400-FV-131	**12/11/2024**	**For Modified EPA Method 607, analyte Bromacil had a relative percent difference for a field duplicate that was outside standard limits.**
400-FV-131	**12/11/2024**	**For Modified EPA Method 607, field duplicate samples 2412110938C and 2412110939C the relative percent difference for Bromacil was 28.6%. This value is outside the upper acceptance limit for relative percent difference of 25%.**
400-GV-125	12/11/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2412111113C and 2412111114C were within control limits or below the calculable range.
400-HV-147	**12/11/2024**	**For Modified EPA Method 607, sample (2412111032A) was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
400-HV-147	**12/11/2024**	**For Modified EPA Method 607, analytes NDMA and DMN are an estimated value greater than the upper calibration limit.**
400-HV-147	**12/11/2024**	**For Modified EPA Method 607, sample 2412111032A was diluted 100-fold due to NDMA and DMN exceeding calibration curve in the initial analysis. Original Bromacil samples is retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
400-HV-147	**12/11/2024**	**For Modified EPA Method 607, N-Nitroso-di-n-propylamine-d14 (surrogate) was spiked into every sample before extraction at 0.50 µg/mL in extract. The surrogate recoveries for all samples were within method recovery criteria of 40-160%. Surrogate recoveries for samples 2412111032A (400-HV-147) were reported from initial analysis only.**
400-HV-147	**12/11/2024**	**For Modified EPA Method 607, analytes NDMA, DMN, and Bromacil reported results are from a dilution.**
300-001-GSV	**12/12/2024**	**For Modified EPA Method 607, N-Nitroso-di-n-propylamine-d14 (surrogate) was spiked into every sample before extraction at 0.50 µg/mL in extract. The surrogate recoveries for all samples were within method recovery criteria of 40-160%. Surrogate recoveries for sample 2412121337C (300-001-GSV) was reported from initial analysis only.**
300-001-GSV	**12/12/2024**	**For Modified EPA Method 607, sample (2412121337C) was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
300-001-GSV	**12/12/2024**	**For Modified EPA Method 607, sample (2412121337C) was diluted 50-fold due to NDMA and DMN exceeding calibration curve in the initial analysis. Diluted NDMA and DMN samples are retained and the original samples are flagged with an "R" and maintained in the Q_disk only.**
300-002-GSV	12/16/2024	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2412161347C and 2412161347C were within control limits or below the calculable range.

Well ID	Event Date	Modified EPA Method 607 QA Narratives
PL-2-504	**12/16/2024**	**For Modified EPA Method 607,for sample (2412161013A) analyte NDMA (0.008 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
PL-2-504	**12/16/2024**	**For Modified EPA Method 607,analyte Bromacil (0.008 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
PL-11-470	12/2/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
PL-11-470	12/2/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-11-470	**12/2/2024**	**For Low Level Nitrosamine Method, The internal standard recoveries for N-Nitrosodimethylamine-d6 (NDMA-d6) and NNitrodimethylamine- d6 (DMN-d6) were within the advisory QC limits of 10-100% for all samples and QC with two exceptions. Sample 2412021227B (PL-11-470) had recoveries for NDMA-d6 and DMN-d6 of 3.10% and 5.40%, respectively. Sample 2412031219B (PL-11-710) had a recovery for NDMA-d6 slightly low at 9.30%. In both cases, there was a peak present for NDMA that quantitated below the MDL and was not reported. DMN was not detected in either sample.**
PL-11-530	12/2/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-11-530	**12/2/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.46 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-4-464	12/2/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-11-710	12/3/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-11-820	12/3/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-11-980	12/3/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-11-980	**12/3/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.38 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-6-528	**12/4/2024**	**For Low Level Nitrosamine Method, analyte N Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
ST-6-528	**12/4/2024**	**For Low Level Nitrosamine Method, for sample (2412041246B) The internal standard recoveries for N-Nitrosodimethylamine-d6 (NDMA-d6) and NNitrodimethylamine-d6 (DMN-d6) were within the advisory QC limits of 10-100% for all samples and QC with two exceptions. Samples 2412041246B (ST-6-528) and 2412051341Y (WW-3-469) had recoveries for NDMA-d6 slightly low at 9.30% and 9.50%, respectively. In both cases, there was a peak present for NDMA (quantitated below the MDL for 2412041246B (ST-6-528)). DMN was not detected in either sample.**
ST-6-528	12/4/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-6-568	12/4/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-6-568	12/4/2024	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2412041314B and 2412041316B were within control limits or below the calculable range.
ST-6-568	**12/4/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
ST-6-568	**12/4/2024**	**For Low Level Nitrosamine Method, for sample (2412041316) N-Nitrosodimethylamine (0.46 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-1-452	12/4/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
WW-1-452	**12/4/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412041428C) at 0.35 ng/L.**

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
WW-1-452	**12/4/2024**	**For Low Level Nitrosamine Method, for sample (2412041428) N-Nitrosodimethylamine (0.35 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-1-452	**12/4/2024**	**For Low Level Nitrosamine Method, for sample (24041428) N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
WW-3-569	12/4/2024	For Low Level Nitrosamine Method, there were no detections in the equipment blank.
WW-3-569	12/4/2024	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2412050922Y and 2412050923Y were within control limits or below the calculable range.
B650-EFF-1	12/5/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
B650-EFF-1	**12/5/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
B650-EFF-1	**12/5/2024**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.44 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-EFF-2	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine (0.38 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-EFF-2	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
B655-EFF-2	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412050957) at 0.62 ng/L.**
ST-6-678	12/5/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
ST-6-678	12/5/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-6-824	12/5/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-6-824	**12/5/2024**	**For Low Level Nitrosamine Method, for sample (2412051234B) The internal standard recoveries for N-Nitrosodimethylamine-d6 (NDMA-d6) and NNitrodimethylamine-d6 (DMN-d6) were within the advisory QC limits of 10-100% for all samples and QC with two exceptions. Samples 2412051234B (ST-6-824) and 2412060901Y (PL-8-605) had recoveries for NDMA-d6 at 5.70% and 7.90%, respectively. In both cases, there was a peak present for NDMA that quantitated below the MDL and was not reported.**
ST-6-970	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412051259B) at 0.35 ng/L.**
ST-6-970	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine (0.35 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-3-469	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine (0.36 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-3-469	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2412051031Y) at 0.36 ng/L.**
WW-3-469	**12/5/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
WW-3-469	**12/5/2024**	**For Low Level Nitrosamine Method, for sample (2412051341Y) The internal standard recoveries for N-Nitrosodimethylamine-d6 (NDMA-d6) and NNitrodimethylamine-d6 (DMN-d6) were within the advisory QC limits of 10-100% for all samples and QC with two exceptions. Samples 2412041246B (ST-6-528) and 2412051341Y (WW-3-469) had recoveries for NDMA-d6 slightly low at 9.30% and 9.50%, respectively. In both cases, there was a peak present for NDMA (quantitated below the MDL for 2412041246B (ST-6-528)). DMN was not detected in either sample.**
PL-8-455	12/6/2024	For Low Level Nitrosamine Method, there were no detections in the equipment blank.

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
PL-8-605	12/6/2024	For Low Level Nitrosamine Method, there were no detections in the equipment blank.
PL-8-605	**12/6/2024**	**For Low Level Nitrosamine Method, for sample (2412060901Y) The internal standard recoveries for N-Nitrosodimethylamine-d6 (NDMA-d6) and NNitrodimethylamine-d6 (DMN-d6) were within the advisory QC limits of 10-100% for all samples and QC with two exceptions. Samples 2412051234B (ST-6-824) and 2412060901Y (PL-8-605) had recoveries for NDMA-d6 at 5.70% and 7.90%, respectively. In both cases, there was a peak present for NDMA that quantitated below the MDL and was not reported.**
WW-2-489	12/6/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-2-664	12/6/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-42-569	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
BLM-42-569	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
BLM-42-569	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
BLM-42-569	**12/9/2024**	**For Low Level Nitrosamine Method, the internal recoveries for NDMA were outside advisory QC limits.**
BLM-42-569	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412091404A) at 1.05 ng/L.**
BLM-42-569	**12/9/2024**	**For Low Level Nitrosamine Method, the blanks did not contain any positive detections above the MDL. However, blank PB24M13JZ1 contained an EMPC at ~2x the LOQ. This EMPC was observed in all samples in the associated extraction batch at approximately the same concentration, indicating the source was likely from the laboratory.**
BLM-42-709	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
BLM-42-709	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
BLM-42-709	**12/9/2024**	**For Low Level Nitrosamine Method, The internal standard recoveries for N-Nitrosodimethylamine-d6 (NDMA-d6) and NNitrodimethylamine-d6 (DMN-d6) were within the advisory QC limits of 10-100% for all samples and QC with the following exceptions. Samples 2412090913C (BLM-7-509), 2412091004A (BLM-42-709), 412091404A (BLM-42-569), 2412091421C (ST-4-481), 2412161014A (PL-2-504), and 2412161015A (PL-2-504) had recoveries for NDMA-d6 between 6.50% and 9.90%. In all but the last two samples listed, there was an EMPC for NDMA above the LOQ. Sample 2412161014A (PL-2-504) contained NDMA well above the LOQ and sample 2412161015A (PL-2-504) contained a peak for NDMA that quantitated below the MDL and was not reported.**
BLM-42-709	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
BLM-42-709	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412091004A) at 0.9 ng/L.**
BLM-42-709	12/9/2024	For Low Level Nitrosamine Method, matrix spike recoveries for sample 2412091005A were within laboratory control limits.
BLM-42-709	**12/9/2024**	**For Low Level Nitrosamine Method, the internal recoveries for NDMA were outside advisory QC limits.**
BLM-7-509	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
BLM-7-509	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
BLM-7-509	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
BLM-7-509	**12/9/2024**	**For Low Level Nitrosamine Method, this sample ahd internal standard recoveries for NDMA outside advisory QC limits, between 6.5-9.9%.**
BLM-7-509	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the trip blank (2412090721C) at 0.93 ng/L.**
BLM-7-509	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412090913C) at 0.93 ng/L.**
ST-4-481	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
ST-4-481	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
ST-4-481	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2412091421C) at 0.9 ng/L.**
ST-4-481	**12/9/2024**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
ST-4-481	**12/9/2024**	**For Low Level Nitrosamine Method, this sample had standard internal recoveries outside advisory QC limits for NDMA, between 6.5% and 9.9%**
PL-2-504	**12/16/2024**	**For Low Level Nitrosamine Method, this sample had standard internal recoveries outside advisory QC limits for NDMA, between 6.5% and 9.9%**
PL-2-504	12/16/2024	For Low Level Nitrosamine Method, there were no detections in the trip blank.
PL-2-504	12/16/2024	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-2-504	12/16/2024	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2412161014A and 2412161016A were within control limits or below the calculable range.

Well ID	Event Date	SW-846 Method 8270D QA Narratives
600A-001-GW-1	**12/9/2024**	**For SW-846 Method 8270, analytes Benzenesulfonamide,N-butyl- and 1,2-Benzenedicarboxylic acid, mono, were tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
600A-001-GW-1	**12/9/2024**	**For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
600A-002-GW-1	**12/10/2024**	**For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
300-001-GSV	**12/12/2024**	**For SW-846 Method 8260, analytes Unknown, Methanamine, N-methyl-N-Nitro, and 1-Methyl-1H-1,2,4-triazole, were tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
300-001-GSV	**12/12/2024**	**For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	Total Metals QA Narratives
200-G-420	**12/2/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-495	**12/2/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	Total Metals QA Narratives
700-B-510	**12/2/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
700-B-510	**12/2/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
700-B-510	12/2/2024	For Total Metals, relative percent differences (RPD) for duplicate samples 2412020943C and 2412020944C were within control limits or below the calculable range.
200-G-220	**12/3/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-340	**12/3/2024**	**For Total Metals, Magnesium, Total was detected in the equipment blank (2412030921Y) at 0.1 mg/L. Strontium, Total was detected in the equipment blank (2412030921Y) at 0.01 mg/L. Zinc, Total was detected in the equipment blank (2412030921Y) at 0.004 mg/L. Calcium, Total was detected in the equipment blank (2412030921Y) at 0.4 mg/L.**
200-G-340	**12/3/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
200-G-175	**12/4/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
600A-001-GW-1	**12/9/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
600A-002-GW-1	**12/10/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-27-270	**12/10/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BW-7-211	**12/10/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-EV-131	**12/11/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-FV-131	**12/11/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-FV-131	12/11/2024	For Total Metals, relative percent differences (RPD) for duplicate samples 2412110940C and 2412110941C were within control limits or below the calculable range.
400-GV-125	**12/11/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-GV-125	12/11/2024	For Total Metals, relative percent differences (RPD) for duplicate samples 2412111115C and 2412111116C were within control limits or below the calculable range.
400-HV-147	**12/11/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-IV-123	**12/11/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-JV-150	**12/11/2024**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**

Well ID	Event Date	Total Metals QA Narratives
300-001-GSV	12/12/2024	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
300-002-GSV	12/16/2024	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.

Well ID	Event Date	Miscellaneous QA Narratives
200-G-340	12/3/2024	For EPA Method 353.2, analyte Nitrate+ Nitrate as Nitrogen (0.005 mg/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
600A-001-GW-1	12/9/2024	For Total Anions, for sample 2412091005B the laboratory matrix spike recoveries for sulfate (89%) in laboratory control sample R2412919-004MS was outside laboratory control limits (90-110%).
400-GV-125	12/11/2024	For all analyses, due to an incorrect entry into the computer logbook, sample ID numbers where enterded in using the preface "241224", the correct preface is "241211". The database was corrected to match the chain of custody and laboratory report.

Table 8 – WSTF Blank Sample Detections

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
200-G-420	02-Dec-24	Carboy G3	8260	VOA-EB	TIC	Unknown	14	ug/L	J TIC
200-G-495	02-Dec-24	Carboy G3	8260	VOA-EB	TIC	Unknown	13	ug/L	J TIC
700-B-510	02-Dec-24	Carboy G1 / DP-584	8260	VOA-EB	TIC	Unknown	14	ug/L	J TIC
PL-11-470	02-Dec-24	Carboy	8260_LL	VOA-FB	TIC	Unknown	14	ug/L	J TIC
PL-11-470	02-Dec-24	Carboy	8260_LL	VOA-TB	TIC	Unknown	12	ug/L	J TIC
PL-11-530	02-Dec-24	Carboy	8260_LL	VOA-FB	TIC	Unknown	15	ug/L	J TIC
PL-4-464	02-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	14	ug/L	J TIC
200-G-220	03-Dec-24	Carboy G3	8260	VOA-EB	TIC	Unknown	14	ug/L	J TIC
200-G-340	03-Dec-24	Carboy G3	8260	VOA-EB	TIC	Unknown	13	ug/L	J TIC
200-G-340	03-Dec-24	Carboy G3	METALS	METALS-EB	7440-70-2	Calcium, Total	0.4	mg/L	J EB
200-G-340	03-Dec-24	Carboy G3	METALS	METALS-EB	7439-95-4	Magnesium, Total	0.1	mg/L	J EB
200-G-340	03-Dec-24	Carboy G3	METALS	METALS-EB	7440-24-6	Strontium, Total	0.01	mg/L	J EB
200-G-340	03-Dec-24	Carboy G3	METALS	METALS-EB	7440-66-6	Zinc, Total	0.004	mg/L	J EB
PL-11-710	03-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	15	ug/L	J TIC
PL-11-820	03-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
PL-11-980	03-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	14	ug/L	J TIC
200-G-175	04-Dec-24	Carboy G3	8260	VOA-EB	TIC	Unknown	12	ug/L	J
ST-6-528	04-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
ST-6-568	04-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
WW-1-452	04-Dec-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
WW-1-452	04-Dec-24	Carboy G1	8260_LL	VOA-TB	TIC	Unknown	10	ug/L	J TIC
WW-1-452	04-Dec-24	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.35	ng/L	J K FB
WW-3-569	04-Dec-24	Carboy G3	8260_LL	VOA-EB	TIC	Unknown	13	ug/L	J
B650-EFF-1	05-Dec-24	Carboy PF1	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
B650-INF-1	05-Dec-24	Carboy PF1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
B655-EFF-2	05-Dec-24	Carboy PF1	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
B655-EFF-2	05-Dec-24	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.62	ng/L	FB
B655-INF-2	05-Dec-24	Carboy PF1	8260	VOA-FB	TIC	Unknown	11	ug/L	J TIC
ST-3-586	05-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC
ST-3-735	05-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC
ST-6-678	05-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
ST-6-678	05-Dec-24	Carboy G2	8260_LL	VOA-TB	TIC	Unknown	11	ug/L	J TIC
ST-6-824	05-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
ST-6-970	05-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	11	ug/L	J TIC
ST-6-970	05-Dec-24	Carboy G2	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.35	ng/L	J FB
WW-3-469	05-Dec-24	Carboy G3	8260_LL	VOA-EB	TIC	Unknown	12	ug/L	J TIC
WW-3-469	05-Dec-24	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.36	ng/L	J K EB
PL-8-455	06-Dec-24	Carboy G3	8260_LL	VOA-EB	TIC	Unknown	12	ug/L	J TIC
PL-8-605	06-Dec-24	Carboy G3	8260_LL	VOA-EB	TIC	Unknown	11	ug/L	J TIC
ST-3-486	06-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	12	ug/L	J TIC
ST-3-666	06-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC
WW-2-489	06-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	11	ug/L	J TIC
WW-2-664	06-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
600A-001-GW-1	09-Dec-24	Carboy G3	8260	VOA-FB	TIC	Unknown	12	ug/L	J
BLM-42-569	09-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
BLM-42-569	09-Dec-24	Carboy G2	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	1.05	ng/L	A K RB FB
BLM-42-709	09-Dec-24	Carboy G2	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
BLM-42-709	09-Dec-24	Carboy G2	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.9	ng/L	A K RB FB
BLM-7-509	09-Dec-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
BLM-7-509	09-Dec-24	Carboy G1	8260_LL	VOA-TB	TIC	Unknown	11	ug/L	J TIC
BLM-7-509	09-Dec-24	Carboy G1	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.93	ng/L	A K RB TB FB
BLM-7-509	09-Dec-24	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.93	ng/L	A K RB TB FB
ST-4-481	09-Dec-24	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
ST-4-481	09-Dec-24	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.9	ng/L	A K RB FB
600A-002-GW-1	10-Dec-24	Carboy	8260	VOA-FB	TIC	Unknown	12	ug/L	J
BLM-27-270	10-Dec-24	Carboy	8260	VOA-FB	TIC	Unknown	9.8	ug/L	J
BW-7-211	10-Dec-24	Carboy G2	8260	VOA-FB	TIC	Unknown	13	ug/L	J
400-EV-131	11-Dec-24	Carboy G2	8260	VOA-FB	TIC	Unknown	12	ug/L	J
400-FV-131	11-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	14	ug/L	J
400-GV-125	11-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	11	ug/L	J
400-HV-147	11-Dec-24	Carboy G2	8260	VOA-FB	TIC	Unknown	13	ug/L	J
400-IV-123	11-Dec-24	Carboy G2	8260	VOA-FB	TIC	Unknown	11	ug/L	J
400-JV-150	11-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	11	ug/L	J
300-001-GSV	12-Dec-24	Carboy	8260	VOA-FB	TIC	Unknown	15	ug/L	J TIC
300-002-GSV	16-Dec-24	Carboy	8260	VOA-FB	TIC	Unknown	11	ug/L	J TIC

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
PL-2-504	16-Dec-24	Carboy G1	8260	VOA-TB	TIC	Unknown	14	ug/L	J TIC
PL-2-504	16-Dec-24	Carboy G1	8260	VOA-FB	TIC	Unknown	13	ug/L	J TIC

National Aeronautics and Space Administration



Quality Assurance Report for White Sands Test Facility Groundwater Monitoring Data

January 2025

NM8800019434

Report Submitted: April 2025

Report Prepared by:
Stephanie Portillo
Environmental Scientist IV
Navarro Research and Engineering, Inc.

1.0 Introduction

The WSTF Groundwater Monitoring Plan (GMP) requires the preparation of a periodic report to assess the quality of groundwater analytical data reported. The monthly Quality Assurance Report (QAR) prepared and reviewed by responsible environmental contractor data management personnel provides the following information:

- A summary of notable anomalies and a follow-up on previous anomalies, if necessary.
- A summary of notable data quality issues by analytical method, if any.
- A list of the sample events for which groundwater samples were collected in January 2025.
- The quantity and type of quality control samples collected or prepared in January 2025.
- Quality control sample percentages in annual period immediately preceding and during January 2025.
- Definitions of data qualifiers used in WSTF analytical data reporting.
- The quantity and type of data qualifiers applied to individual analytical results.
- A list of quality assurance narratives for the month arranged by analytical method.
- A summary table of detections in equipment blank, field blank, and trip blank samples.

2.0 Data Quality

2.1 Notable Anomalies Identified in Previous Quality Assurance Reports

There were no notable anomalies requiring follow-up associated with previous QARs.

2.2 Notable Anomalies

There were no notable anomalies in the groundwater data associated with the January 2025 QAR.

3.0 Data Tables

Table 1 summarizes the groundwater sample events initiated in January 2025. This report is based on data quality issues related to the sample events listed in Table 1. Tables 2 through 8 contain information related to the sample events identified in Table 1. As specified by the GMP, specific quality control samples are utilized to assess the quality of analytical data. Table 2 presents the quantity of quality control samples collected for each analytical method. Table 3 compares the quality control sample percentages collected to the requirements in the GMP. When data quality criteria are not met, data qualifiers are applied to the data. Definitions of data qualifiers used for WSTF chemical analytical data are listed in Table 4. Table 5 and Table 6 present the total number of individual result records and summarize the quantity of field and laboratory data qualifiers assigned to individual analyte result records in the WSTF analytical database. Table 7 provides all quality assurance narratives associated with the sample events in Table 1. Narratives associated with qualified data are identified by **bold text** in Table 7. Table 8 provides a summary of all detections in WSTF blank samples.

Table 1 – Sample Events for January 2025

Well ID	Event Date
BLM-24-565	04-Nov-24
BLM-32-543	04-Nov-24
BLM-32-571	04-Nov-24
BLM-32-632	04-Nov-24
BLM-8-418	04-Nov-24
ST-4-589	05-Nov-24

Well ID	Event Date
ST-4-690	05-Nov-24
BLM-2-630	06-Nov-24
BLM-36-610	06-Nov-24
BLM-36-860	06-Nov-24
BLM-17-493	07-Nov-24
BLM-3-182	07-Nov-24

Well ID	Event Date
BLM-36-800	07-Nov-24
BLM-36-350	08-Nov-24
BW-5-295	08-Nov-24
400-C-143	12-Nov-24
ST-5-485	12-Nov-24
ST-5-655	12-Nov-24

Well ID	Event Date
WW-4-419	12-Nov-24
WW-4-589	12-Nov-24
BLM-38-480	13-Nov-24
BLM-38-620	13-Nov-24
PL-12-570	13-Nov-24
PL-12-800	13-Nov-24
WW-4-848	13-Nov-24
WW-4-948	13-Nov-24
200-I-795	14-Nov-24
BLM-22-570	14-Nov-24
BLM-26-404	14-Nov-24
PL-7-560	14-Nov-24
ST-1-473	14-Nov-24

Well ID	Event Date
ST-1-541	14-Nov-24
100-001-GW	15-Nov-24
100-D-176	15-Nov-24
200-I-490	15-Nov-24
200-I-675	15-Nov-24
600C-005-GW	15-Nov-24
600-C-173	15-Nov-24
200-I-300	18-Nov-24
200-I-375	18-Nov-24
B650-EFF-1	18-Nov-24
B650-INF-1	18-Nov-24
B655-EFF-2	18-Nov-24
B655-INF-2	18-Nov-24

Well ID	Event Date
NASA 4	18-Nov-24
ST-1-630	18-Nov-24
400-001-GW	19-Nov-24
MPE-1	19-Nov-24
MPE-10	19-Nov-24
MPE-11	19-Nov-24
MPE-9	19-Nov-24
200-H-225	20-Nov-24
NASA 6	20-Nov-24
WB-1-200	20-Nov-24
BW-4-330	27-Nov-24

Table 2 – Quantity of Quality Control Samples

Method	Samples	Field Blanks	Equip Blanks	Trip Blanks	Blind Controls	Duplicates	Matrix Spikes
Chloride by EPA Method 300.0	**1**	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**15**	0	0	0	0	0	0
Nitrosamines by EPA Method 607	**26**	**2**	**1**	0	**1**	**3**	**1**
Perchlorate by SW-846 Method 6850	**13**	0	0	0	0	0	0
Organics by SW-846 Method 8015M	**2**	0	0	0	0	0	0
Pesticides by SW-846 Method 8081	**3**	0	0	0	0	0	0
PCBs by SW-846 Method 8082	**3**	0	0	0	0	0	0
Herbicides by SW-846 Method 8151	**3**	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**15**	**15**	0	0	**1**	**4**	0
Low Level Volatile Organics by SW-846 Method 8260C	**32**	**25**	**7**	**8**	0	**1**	**1**
Semi-Volatile Organics by SW-846 Method 8270D	**20**	0	0	0	0	0	0
Dioxins/Furans by SW-846 Method 8290	**3**	0	0	0	0	0	0
Cyanide by SW-846 Method 9012B	**3**	0	0	0	0	0	0
Sulfide by SW-846 Method 9030	**3**	0	0	0	0	0	0
Phenolics by SW-846 Method 9066	**3**	0	0	0	0	0	0
Anions by Various EPA Methods	**13**	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**18**	**2**	**1**	0	**1**	**2**	0
Nitrosamines by Low-Level Method	**35**	**29**	**6**	**9**	**1**	**4**	0
Total Dissolved Solids by Standard Method 2540C	**13**	0	0	0	0	0	0

Table 3 – Quality Control Sample Percentages

Quality Control Requirement	Requirement %	Samp. Qty. since January 2024	QC Qty. January 2024	QC % since January 2024	Sample Quantity January 2025	QC Quantity January 2025	QC % January 2025
VOA Duplicates	**10**	629	76	**12.08**	45	5	**11.11**
VOA Matrix Spikes	**2**	629	13	**2.07**	45	1	**2.22**
607 Duplicates	**10**	355	40	**11.27**	26	3	**11.54**
607 Matrix Spikes	**2**	355	10	**2.82**	26	1	**3.85**
607 Equipment Blanks	**2**	355	8	**2.25**	26	1	**3.85**
607 Field Blanks	**2**	355	13	**3.66**	26	2	**7.69**

Quality Control Requirement	Requirement %	Samp. Qty. since January 2024	QC Qty. January 2024	QC % since January 2024	Sample Quantity January 2025	QC Quantity January 2025	QC % January 2025
NDMA_LL Duplicates	**10**	383	41	**10.70**	33	4	**12.12**
NDMA_LL Matrix Spikes	**2**	383	12	**3.13**	33	0	**0.00**
Metals Duplicates	**10**	257	30	**11.67**	18	2	**11.11**
Metals Matrix Spikes	**2**	257	5	**1.95**	18	0	**0.00**
Metals Equipment Blanks	**5**	257	12	**4.67**	18	1	**5.56**
Metals Field Blanks	**5**	257	19	**7.39**	18	2	**11.11**

Quality Control Requirement	Requirement %	Sample Events since January 2024	QC Qty. since January 2024	QC % since January 2024	Sample Events January 2025	QC Quantity January 2025	QC % January 2025
VOA Equipment Blanks and Field Blanks	*Should approach 100%*	622	619	**99.52%**	45	45	**100%**
Low Level Nitrosamine Equipment Blanks and Field Blanks	*Should approach 100%*	378	378	**100%**	33	33	**100%**

Quality Control Requirement	Requirement %	Shipments since January 2024	TB Qty. since January 2024	TB % since January 2024	Shipments in January 2025	TB Quantity January 2025	QC % January 2025
VOA Trip Blank (per shipment)	*Should approach 100%*	106	106	**100%**	8	8	100%
Low Level Nitrosamine Trip Blank (per shipment)	*Should approach 100%*	96	96	**100%**	9	9	100%

Table 4 – Definitions of Data Qualifiers

Qualifier	Definition
*	User defined qualifier. See quality assurance narrative.
A	The result of an analyte for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.
AD	Relative percent difference for analyst (laboratory) duplicates was outside standard limits.
D	The reported result is from a dilution.
EB	The analyte was detected in the equipment blank.
FB	The analyte was detected in the field blank.
G	The result is an estimated value greater than the upper calibration limit.
i	The result, quantitation limit, and/or detection limit may have been affected by matrix interference.
J	The result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.
K	The peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration.
NA	The value/result was either not analyzed for or not applicable.
ND	The analyte was not detected above the detection limit.
Q	The result for a blind control sample was outside standard limits.
QD	The relative percent difference for a field duplicate was outside standard limits.
R	The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
RB	The analyte was detected in the method blank.
S	The result was determined by the method of standard addition.
SP	The matrix spike recovery and/or the relative percent difference for matrix spike duplicates was outside standard limits.
T	The sample was analyzed outside the specified holding time or temperature.
TB	The analyte was detected in the trip blank.

Qualifier	Definition
TIC	The analyte was tentatively identified by a GC/MS library search and the amount reported is an estimated value.

Table 5 – Quantity of Field Based Data Qualifiers Assigned to Individual Result Records

Method	Total Result Records	FB	EB	TB	Q	QD	SP	R
Chloride by EPA Method 300.0	**1**	0	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**15**	0	0	0	0	0	0	0
Nitrosamines by EPA Method 607	**93**	0	0	0	0	0	0	**6**
Perchlorate by SW-846 Method 6850	**13**	0	0	0	0	0	0	0
Organics by SW-846 Method 8015M	**2**	0	0	0	0	0	0	0
Pesticides by SW-846 Method 8081	**63**	0	0	0	0	0	0	0
PCBs by SW-846 Method 8082	**21**	0	0	0	0	0	0	0
Herbicides by SW-846 Method 8151	**18**	0	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**1218**	**2**	0	0	**4**	0	0	0
Low Level Volatile Organics by SW-846 Method 8260C	**2122**	0	0	0	0	0	0	0
Semi-Volatile Organics by SW-846 Method 8270D	**607**	0	0	0	0	0	0	0
Dioxins/Furans by SW-846 Method 8290	**75**	0	0	0	0	0	0	0
Cyanide by SW-846 Method 9012B	**3**	0	0	0	0	0	0	0
Sulfide by SW-846 Method 9030	**3**	0	0	0	0	**1**	0	0
Phenolics by SW-846 Method 9066	**3**	0	0	0	0	0	0	0
Anions by Various EPA Methods	**52**	0	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**540**	**2**	**1**	0	**6**	**2**	0	0
Nitrosamines by Low-Level Method	**78**	**3**	**3**	**2**	0	0	0	0
Total Dissolved Solids by Standard Method 2540C	**13**	0	0	0	0	0	0	0

Table 6 – Quantity of Laboratory based Data Qualifiers Assigned to Individual Result Records

Method	Total Result Records	*	A	AD	G	RB	T	D	i	J	K
Chloride by EPA Method 300.0	**1**	0	0	0	0	0	0	0	0	0	0
Nitrate plus Nitrite as N by EPA Method 353.2	**15**	0	0	0	0	0	0	0	0	**1**	0
Nitrosamines by EPA Method 607	**93**	0	0	0	**4**	0	0	**6**	0	**4**	0
Perchlorate by SW-846 Method 6850	**13**	0	0	0	0	0	0	0	0	**2**	0
Organics by SW-846 Method 8015M	**2**	0	0	0	0	0	0	0	0	0	0
Pesticides by SW-846 Method 8081	**63**	0	0	0	0	0	0	0	0	0	0
PCBs by SW-846 Method 8082	**21**	0	0	0	0	0	0	0	0	0	0
Herbicides by SW-846 Method 8151	**18**	0	0	0	0	0	0	0	0	0	0
Volatile Organics by SW-846 Method 8260C	**1218**	0	0	0	**2**	0	0	**3**	0	**20**	0
Low Level Volatile Organics by SW-846 Method 8260C	**2122**	0	0	0	0	0	0	0	0	**9**	0
Semi-Volatile Organics by SW-846 Method 8270D	**607**	0	0	0	0	**1**	0	0	0	**1**	0
Dioxins/Furans by SW-846 Method 8290	**75**	0	0	0	0	0	0	0	0	0	0
Cyanide by SW-846 Method 9012B	**3**	0	0	0	0	0	0	0	0	0	0
Sulfide by SW-846 Method 9030	**3**	0	0	0	0	0	0	0	0	0	0
Phenolics by SW-846 Method 9066	**3**	0	0	0	0	0	0	0	0	0	0
Anions by Various EPA Methods	**52**	0	0	0	0	0	0	0	0	0	0
Total Metals by Various SW-846 Methods	**540**	0	0	0	0	**37**	0	0	0	**115**	0

Method	Total Result Records	*	A	AD	G	RB	T	D	i	J	K
Nitrosamines by Low-Level Method	**78**	**2**	**8**	0	0	**7**	0	0	0	**4**	**15**
Total Dissolved Solids by Standard Method 2540C	**13**	0	0	0	0	0	0	0	0	0	0

Table 7 – Quality Assurance Narratives

Well ID	Event Date	SW-846 Method 8260 QA Narratives
400-A-151	**1/2/2025**	**For SW-846 Method 8260, analyte Trichloroethene (TCE) (0.86 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
400-A-151	1/2/2025	For SW-846 Method 8260C, there were no detections in the field blank.
400-A-151	1/2/2025	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2501021400A and 2501021401A were within control limits or below the calculable range.
400-A-151	**1/2/2025**	**For SW-846 Method 8260, analyte Trichlorofluoromethane (CFC 11) reported result is due to a dilution.**
400-A-151	1/2/2025	For SW-846 Method 8260 The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-6-488	1/2/2025	For SW-846 Method 8260C, there were no detections in the field blank.
BLM-6-488	**1/2/2025**	**For SW-846 Method 8260, analyte 1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a) (0.23 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-6-488	1/2/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-10-517	1/3/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
BLM-10-517	1/3/2025	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
BLM-10-517	1/3/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
BLM-10-517	**1/3/2025**	**For Low Level SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane (0.23 ug/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
JP-1-424	1/6/2025	For SW-846 Method 8260, The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.
JP-1-424	1/6/2025	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
JP-1-424	1/6/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
JP-2-447	1/6/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
JP-2-447	1/6/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.

Well ID	Event Date	SW-846 Method 8260 QA Narratives
JP-2-447	**1/6/2025**	**For Low Level SW-846 Method 8260, analyte Toluene (0.27 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
ST-7-544	1/6/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-7-544	1/6/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
ST-7-779	1/6/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-7-779	1/6/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
ST-7-970	1/6/2025	For SW-846 Method 8260 The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
ST-7-970	1/6/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
B650-EFF-1	1/7/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B650-EFF-1	1/7/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
B650-INF-1	**1/7/2025**	**For SW-846 Method 8260, analyte Tetrachloroethene (PCE) (0.94 ug/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B650-INF-1	**1/7/2025**	**For SW-846 Method 8260C, 1,1,2-Trichloro-1,2,2-Trifluoroethane was detected in the field blank (2501071251) at 0.43 ug/L. Trichloroethene (TCE) was detected in the field blank (2501071251) at 0.21 ug/L.**
B650-INF-1	**1/7/2025**	**For SW-846 Method 8260C, due to a sample labeling error in the field sample 2501071250 and field blank 2501071251 were switched in the field. Using historic concentration comparison, sample numbers in the database were corrected to match the field logbook.**
B650-INF-1	1/7/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B650-INF-1	**1/7/2025**	**For SW-846 Method 8260, analyte Tetrachloroethene (PCE) (0.94 ug/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-EFF-2	1/7/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
B655-EFF-2	1/7/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
B655-INF-2	**1/7/2025**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane reported result is from a dilution.**

Well ID	Event Date	SW-846 Method 8260 QA Narratives
B655-INF-2	**1/7/2025**	**For SW-846 Method 8260, analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane result is an estimated value greater than the upper calibration limit.**
B655-INF-2	1/7/2025	For SW-846 Method 8260C, there were no detections in the field blank.
B655-INF-2	1/7/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-5-459	1/7/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-5-459	1/7/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
WW-5-579	1/7/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
WW-5-579	1/7/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
BLM-15-305	**1/13/2025**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-15-305	**1/13/2025**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-15-305	**1/13/2025**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2501131401C) at 15.0 ug/L.**
BLM-17-550	**1/13/2025**	**For SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
BLM-17-550	**1/13/2025**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-17-550	**1/13/2025**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2501131031C) at 15.0 ug/L.**
WW-5-809	1/13/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
WW-5-809	**1/13/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501131151B) at 13.0 ug/L.**
WW-5-809	**1/13/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2501130730B) at 12.0 ug/L.**
WW-5-809	**1/13/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WW-5-809	**1/13/2025**	**For Low Level SW-846 Method 8260, Unknown (12 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-5-909	1/13/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
WW-5-909	**1/13/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501131216B) at 13.0 ug/L.**

Well ID	Event Date	SW-846 Method 8260 QA Narratives
WW-5-909	**1/13/2025**	**For Low Level SW-846 Method 8260, analytes Toluene (0.32 ug/L) and Unknown (30 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WW-5-909	**1/13/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
100-F-358	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
100-F-358	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501140956C) at 13.0 ug/L.**
100-F-358	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown (39 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-F-358	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
100-G-223	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
100-G-223	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501141416C) at 13.0 ug/L.**
100-G-223	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown (44 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-G-223	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
JER-1-483	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
JER-1-483	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501141253B) at 13.0 ug/L.**
JER-1-483	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
JER-1-483	**1/14/2025**	**For Low Level SW-846 Method 8260, analytes Toluene (0.49 ug/L) and Unknown (41 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
JER-1-563	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
JER-1-563	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501141319B) at 12.0 ug/L.**
JER-1-563	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
JER-1-563	**1/14/2025**	**For Low Level SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
JER-1-683	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
JER-1-683	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501141341B) at 12.0 ug/L.**

Well ID	Event Date	SW-846 Method 8260 QA Narratives
JER-1-683	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
JER-1-683	**1/14/2025**	**For Low Level SW-846 Method 8260, analytes Vinyl Chloride (0.26 ug/L) and Unknown (40 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WELL K	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
WELL K	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the equipment blank (2501140906) at 13.0 ug/L.**
WELL K	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WELL K	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown (36 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
WELL M	1/14/2025	For SW-846 Method 8260, The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
WELL M	**1/14/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the field blank (2501140846) at 14.0 ug/L.**
WELL M	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
WELL M	**1/14/2025**	**For Low Level SW-846 Method 8260, Unknown (37 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
300-F-175	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
300-F-175	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
300-F-175	1/15/2025	For Low Level SW-846 Method 8260C, due to a chain of custody error sample 2501150916C was incorrectly reported by the lab as "250115916C". The sample number has been corrected to match the logbook.
300-F-175	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
JER-2-504	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
JER-2-504	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
JER-2-504	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
JER-2-584	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
JER-2-584	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
JER-2-684	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Well ID	Event Date	SW-846 Method 8260 QA Narratives
JER-2-684	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
JER-2-684	**1/15/2025**	**For Low Level SW-846 Method 8260, analyte Toluene (0.46 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PFE-1	1/15/2025	For SW-846 Method 8260C, there were no detections in the field blank.
PFE-1	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PFE-2	**1/15/2025**	**For SW-846 Method 8260, analytes 1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a) (0.31 ug/L) and Dichlorofluoromethane (CFC 21) (0.21 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PFE-2	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PFE-2	1/15/2025	For SW-846 Method 8260C, there were no detections in the field blank.
PL-1-486	1/15/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-1-486	1/15/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
PL-1-486	1/15/2025	For Low Level SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2501151350C and 2501151352C were within control limits or below the calculable range.
JP-3-509	1/16/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
JP-3-509	1/16/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
JP-3-689	1/16/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
JP-3-689	1/16/2025	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
JP-3-689	1/16/2025	For Low Level SW-846 Method 8260C, matrix spike recoveries for sample 2501160942C were within laboratory control limits.
JP-3-689	1/16/2025	For Low Level SW-846 Method 8260C, there were no detections in the field blank.
PFE-3	**1/16/2025**	**For SW-846 Method 8260, analyte 1,2-Dichloro-1,1,2-trifluoroethane (CFC 123a) (0.22 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PFE-3	**1/16/2025**	**For SW-846 Method 8260, Samples are routinely tested for pH after analysis to confirm that any acid added was sufficient to reduce the pH to**
PFE-3	1/16/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PFE-3	1/16/2025	For SW-846 Method 8260C, there were no detections in the field blank.

Well ID	Event Date	SW-846 Method 8260 QA Narratives
PFE-5	**1/16/2025**	**For SW-846 Method 8260, for sample (2501161228), Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**
PFE-5	**1/16/2025**	**For SW-846 Method 8260, for sample (2501161228), Unknown (5.2 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PFE-5	**1/16/2025**	**For SW-846 Method 8260, Samples are routinely tested for pH after analysis to confirm that any acid added was sufficient to reduce the pH to**
PFE-5	**1/16/2025**	**For SW-846 Method 8260C, Unknown was detected in the field blank (2501161228) at 5.2 ug/L.**
PFE-7	**1/16/2025**	**For SW-846 Method 8260, analyte Toluene (0.2 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PFE-7	**1/16/2025**	**For SW-846 Method 8260, Samples are routinely tested for pH after analysis to confirm that any acid added was sufficient to reduce the pH to**
PFE-7	1/16/2025	For SW-846 Method 8260C, there were no detections in the field blank.
PFE-7	1/16/2025	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2501161250 and 2501161251 were within control limits or below the calculable range.
PL-10-592	1/16/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-10-592	1/16/2025	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
PL-10-592	**1/16/2025**	**For Low Level SW-846 Method 8260, analyte Toluene (0.25 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-18-430	**1/17/2025**	**For SW-846 Method 8260, analytes 1,1,2-Trichloro-1,2,2-Trifluoroethane (0.94 ug/L) and Trichlorofluoromethane (CFC 11) (0.33 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-18-430	**1/17/2025**	**For SW-846 Method 8260, multiple analytes had results for a blind control samples that were outside standard limits.**
BLM-18-430	**1/17/2025**	**For SW-846 Method 8260, analytes Tetrachloroethene (PCE) (0.69 ug/L) and Toluene (0.3 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-18-430	**1/17/2025**	**For SW-846 Method 8260, multiple analytes had results for a blind control samples that were outside standard limits.**
BLM-18-430	1/17/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
BLM-18-430	**1/17/2025**	**For SW-846 Method 8260, Samples are routinely tested for pH after analysis to confirm that any acid added was sufficient to reduce the pH to**
BLM-18-430	**1/17/2025**	**For SW-846 Method 8260D in blind control sample (2501171000B), the percent recovery for 1,1,2-trichloro-1,2,2-trifluoroethane (4.7%), trichloroethene (11.5%) tetrachloroethene (9.5%), and trichlorofluoromethane (1.6%) were outside of the standard limits (75-125%). Affected data are appropriately qualified.**
BLM-18-430	1/17/2025	For SW-846 Method 8260C, there were no detections in the field blank.
PFE-4A	1/17/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Well ID	Event Date	SW-846 Method 8260 QA Narratives
PFE-4A	**1/17/2025**	**For SW-846 Method 8260, Samples are routinely tested for pH after analysis to confirm that any acid added was sufficient to reduce the pH to**
PFE-4A	1/17/2025	For SW-846 Method 8260C, there were no detections in the field blank.
PL-10-484	1/17/2025	For SW-846 method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-6-1195	1/22/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-6-1195	1/22/2025	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
PL-6-1195	1/22/2025	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
600-G-138	1/27/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
600-G-138	1/27/2025	For SW-846 Method 8260C, relative percent differences (RPD) for duplicate samples 2501271000A and 2501271001A were within control limits or below the calculable range.
600-G-138	1/27/2025	Method 8260D, 02/03/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
600-G-138	1/27/2025	For SW-846 Method 8260C, there were no detections in the field blank.
600-G-138	**1/27/2025**	**For SW-846 Method 8260, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-6-1335	1/27/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-6-1335	1/27/2025	For Low Level SW-846 Method 8260C, there were no detections in the trip blank.
PL-6-1335	1/27/2025	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
600A-004-GW	1/28/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
600A-004-GW	1/28/2025	For SW-846 Method 8260C, there were no detections in the field blank.
PL-6-915	1/28/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-6-915	1/28/2025	For Low Level SW-846 Method 8260C, there were no detections in the equipment blank.
PL-6-725	1/30/2025	For SW-846 Method 8260, The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the

Well ID	Event Date	SW-846 Method 8260 QA Narratives
		exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
PL-6-725	**1/30/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the equipment blank (2501301438Y) at 14.0 ug/L.**
PL-6-725	1/30/2025	For Low Level SW-846 Method 8260C, due to a chain of custody error sample 2501311115Y was incorrectly reported by the lab as "250131115Y". The sample number has been corrected to match the logbook.
PL-6-725	**1/30/2025**	**For Low Level SW-846 Method 8260C, Unknown was detected in the trip blank (2501300900Y) at 14.0 ug/L.**
PL-6-725	**1/30/2025**	**For Low Level SW-846 Method 8260, matrix spike recoveries for sample 2501300900Y for analyte 2,2-Dichloro-1,1,1-trifluoroethane (132%) the matrix spike recovery was outside standard limits (70-130%).**
PL-6-725	**1/30/2025**	**For Low Level SW-846 Method 8260, Unknown (14 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-6-725	**1/30/2025**	**For Low Level SW-846 Method 8260, Unknown was tentatively identified by a GC/MS library search and the amount reported is an estimated value.**

Well ID	Event Date	Modified EPA Method 607 QA Narratives
BLM-6-488	1/2/2025	For Modified EPA Method 607, matrix spike recoveries for sample 2501021018A were within laboratory control limits.
B650-INF-1	**1/7/2025**	**For Modified EPA Method 607, analyte Bromacil (0.0097 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-15-305	**1/13/2025**	**For Modified EPA Method 607, analytes Bromacil, NDMA and DMN reported results some from a dilution.**
BLM-15-305	**1/13/2025**	**For Modified EPA Method 607, sample 2501131402C) was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
BLM-15-305	**1/13/2025**	**For Modified EPA Method 607, analytes NDMA, DMN, and Bromacil are estimated values greater than the upper calibration limit.**
BLM-17-550	1/13/2025	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2501131032C and 2501131033C were within control limits or below the calculable range.
PFE-2	1/15/2025	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2501151302 and 2501151303 were within control limits or below the calculable range.
PFE-2	**1/15/2025**	**For Low Level Nitrosamine Method, analyte Bromacil (0.007 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
PFE-5	1/16/2025	For all analyses, due to an incorrect entry into the computer logbook, sample ID numbers where entered in using the preface "2401", the correct preface is "2501". The database was corrected to match the chain of custody and laboratory report.
BLM-18-430	1/17/2025	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2501170932B and 2501170933B were within control limits or below the calculable range.
PL-6-1335	1/27/2025	For Nitrosamine Method, due to an incorrect entry into the computer logbook, sample 2501271400Y was incorrectly identified as a "Metals-EB" sample. The database was corrected to identify the sample as "NDMA-EB" to match the chain of custody and laboratory report.
PL-6-1335	1/27/2025	For all analyses, due to an incorrect entry into the computer logbook, sample ID numbers where entered in using the preface "2401", the correct preface is "2501". The database was corrected to match the chain of custody and laboratory report.
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, sample (2501280952C) was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**

Well ID	Event Date	Modified EPA Method 607 QA Narratives
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, analyte Bromacil is an estimated value greater than the upper calibration limit.**
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, analytes Bromacil, NDMA and DMN reported results some from a dilution.**
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, Bromacil exceeded calibration curve in sample 2501280952C (600A-004-GW). Extract was diluted 10-fold prior to reanalysis.**
600A-004-GW	1/28/2025	For Modified EPA Method 607, there were no detections in the field blank.
BLM-6-488	1/2/2025	For Modified EPA Method 607, matrix spike recoveries for sample 2501021018A were within laboratory control limits.
B650-INF-1	**1/7/2025**	**For Modified EPA Method 607, analyte Bromacil (0.0097 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
BLM-15-305	**1/13/2025**	**For Modified EPA Method 607, analytes Bromacil, NDMA and DMN reported results some from a dilution.**
BLM-15-305	**1/13/2025**	**For Modified EPA Method 607, sample 2501131402C) was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
BLM-15-305	**1/13/2025**	**For Modified EPA Method 607, analytes NDMA, DMN, and Bromacil are estimated values greater than the upper calibration limit.**
BLM-17-550	1/13/2025	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2501131032C and 2501131033C were within control limits or below the calculable range.
PFE-2	1/15/2025	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2501151302 and 2501151303 were within control limits or below the calculable range.
PFE-2	**1/15/2025**	**For Low Level Nitrosamine Method, analyte Bromacil (0.007 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
PFE-5	1/16/2025	For all analyses, due to an incorrect entry into the computer logbook, sample ID numbers where entered in using the preface "2401", the correct preface is "2501". The database was corrected to match the chain of custody and laboratory report.
BLM-18-430	1/17/2025	For Modified EPA Method 607, relative percent differences (RPD) for duplicate samples 2501170932B and 2501170933B were within control limits or below the calculable range.
PL-6-1335	1/27/2025	For Nitrosamine Method, due to an incorrect entry into the computer logbook, sample 2501271400Y was incorrectly identified as a "Metals-EB" sample. The database was corrected to identify the sample as "NDMA-EB" to match the chain of custody and laboratory report.
PL-6-1335	1/27/2025	For all analyses, due to an incorrect entry into the computer logbook, sample ID numbers where entered in using the preface "2401", the correct preface is "2501". The database was corrected to match the chain of custody and laboratory report.
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, sample (2501280952C) was diluted 5-fold due to Bromacil exceeding calibration curve in the initial analysis. Original NDMA and DMN samples are retained and the diluted samples are flagged with an "R" and maintained in the Q_disk only.**
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, analyte Bromacil is an estimated value greater than the upper calibration limit.**
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, analytes Bromacil, NDMA and DMN reported results some from a dilution.**
600A-004-GW	**1/28/2025**	**For Modified EPA Method 607, Bromacil exceeded calibration curve in sample 2501280952C (600A-004-GW). Extract was diluted 10-fold prior to reanalysis.**
600A-004-GW	1/28/2025	For Modified EPA Method 607, there were no detections in the field blank.

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
BLM-6-488	1/2/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
BLM-10-517	1/3/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
BLM-10-517	1/3/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.
JP-1-424	1/6/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.
JP-1-424	1/6/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JP-2-447	1/6/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-7-544	**1/6/2025**	**For Low Level Nitrosamine Method, analyte N Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
ST-7-544	1/6/2025	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2501061247B and 2501061248B were within control limits or below the calculable range.
ST-7-544	1/6/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-7-779	**1/6/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
ST-7-779	1/6/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
ST-7-970	**1/6/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
ST-7-970	1/6/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
B650-EFF-1	**1/7/2025**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.43 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B650-EFF-1	**1/7/2025**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
B650-EFF-1	**1/7/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2501071243) at 0.4 ng/L.**
B650-EFF-1	**1/7/2025**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine is detected in the method blank.**
B655-EFF-2	**1/7/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2501071316) at 0.36 ng/L.**
B655-EFF-2	**1/7/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine (0.36 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-EFF-2	**1/7/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
B655-EFF-2	**1/7/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine is detected in the method blank.**
WW-5-459	1/7/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.
WW-5-459	1/7/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-5-459	**1/7/2025**	**For Low Level Nitrosamine Method, for sample (2501071225), N-Nitrosodimethylamine was detected in the method blank.**
WW-5-579	1/7/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-5-579	**1/7/2025**	**For Low Level Nitrosamine Method, N Nitrosodimethylamine was detected in the method blank.**
WW-5-809	1/13/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-5-809	1/13/2025	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2501131152B and 2501131153B were within control limits or below the calculable range.
WW-5-809	1/13/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
WW-5-809	**1/13/2025**	**For Low Level Nitrosamine Method, the analyte N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
WW-5-909	1/13/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
WW-5-909	**1/13/2025**	**For Low Level Nitrosamine Method, for sample (251081100) N-Nitrosodimethylamine was detected in the method blank.**
WW-5-909	**1/13/2025**	**For Low Level Nitrosamine Method, for sample (2501131217) N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
100-F-358	**1/14/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2501140959C) at 0.34 ng/L.**
100-F-358	**1/14/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
100-F-358	**1/14/2025**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine (0.40 ng/L) results are estimated values less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-G-223	1/14/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-1-483	1/14/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-1-483	1/14/2025	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2501141254B and 2501141255B were within control limits or below the calculable range.
JER-1-483	**1/14/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
JER-1-563	1/14/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-1-563	**1/14/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
JER-1-683	1/14/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-1-683	**1/14/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine had results for a laboratory control sample (LCS), initial calibration verification (ICV) or continuing calibration verification (CCV) was outside standard limits.**
WELL K	1/14/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
WELL M	1/14/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
300-F-175	1/15/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-2-504	1/15/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-2-504	1/15/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.
JER-2-584	1/15/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JER-2-684	1/15/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-1-486	1/15/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JP-3-509	1/16/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JP-3-689	1/16/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
JP-3-689	1/16/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.
PFE-7	1/16/2025	For Low Level Nitrosamine Method, there were no detections in the field blank.
PL-10-592	1/16/2025	For Low Level Nitrosamine Method, relative percent differences (RPD) for duplicate samples 2501161426Y and 2501161427Y were within control limits or below the calculable range.
PL-10-592	1/16/2025	For Low Level Nitrosamine Method, Spike recovery in LFB25A29AR1 was within limits (70-130%) for DMN (101%) but above the acceptance limit for NDMA (155%). This is due to contribution from the EMPC detected in the associated blank.
PL-10-592	1/16/2025	For Low Level Nitrosamine Method, there were no detections in the equipment blank.

Well ID	Event Date	Low-Level Nitrosamine Method QA Narratives
PL-10-592	**1/16/2025**	**For Low Level Nitrosamine Method, initial analysis of sample 2501161426Y did not contain peaks for the labeled compounds, indicating a bad injection. The sample was reanalyzed the following day with acceptable results. Only the reanalysis results are reported.**
PFE-4A	**1/17/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the field blank (2501170754) at 0.54 ng/L.**
PFE-4A	**1/17/2025**	**For Low Level Nitrosamine Method, analyte Bromacil (0.009 ug/L) result is an estimated value less than the quantitation limit, but greater than or equal to the detection limit.**
PL-10-484	1/17/2025	For Low Level Nitrosamine Method, there were no detections in the equipment blank.
PL-10-484	**1/17/2025**	**For Low Level Nitrosamine Method, analyte N-Nitrosodimethylamine was detected in the method blank.**
PL-6-1195	**1/22/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the trip blank (2501221301Y) at 0.49 ng/L.**
PL-6-1195	**1/22/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2501221401Y) at 0.62 ng/L.**
PL-6-1195	1/22/2025	For Low Level Nitrosamine Method, Spike recovery in LFB25A29AR1 was within limits (70-130%) for DMN (101%) but above the acceptance limit for NDMA (155%). This is due to contribution from the EMPC detected in the associated blank.
PL-6-1195	**1/22/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
PL-6-1195	**1/22/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
PL-6-1335	**1/27/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2501271321Y) at 0.72 ng/L.**
PL-6-1335	**1/27/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the trip blank (2501271101Y) at 0.53 ng/L.**
PL-6-1335	**1/27/2025**	**For Low Level Nitrosamine Method, the blanks did not contain any positive detections above the MDL. All three blanks contained an EMPC for NDMA. In Blank PB25B03JZ1it was below the LOQ. In Blank PB25B06JZ1 it was below the MDL and not reported. In Blank PB25B12CM1 it was >2x above the LOQ.**
PL-6-1335	**1/27/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
PL-6-1335	**1/27/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
PL-6-915	**1/28/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2501281351Y) at 0.49 ng/L.**
PL-6-915	**1/28/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine peak ratio did not meet ± 25% criteria. Concentration should be considered an estimated maximum possible concentration (EMPC).**
PL-6-915	**1/28/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the method blank.**
PL-6-915	**1/28/2025**	**For Low Level Nitrosamine Method, the blanks did not contain any positive detections above the MDL. All three blanks contained an EMPC for NDMA. In Blank PB25B03JZ1it was below the LOQ. In Blank PB25B06JZ1 it was below the MDL and not reported. In Blank PB25B12CM1 it was >2x above the LOQ.**
PL-6-725	1/30/2025	For Low Level Nitrosamine Method, there were no detections in the trip blank.
PL-6-725	**1/30/2025**	**For Low Level Nitrosamine Method, N-Nitrosodimethylamine was detected in the equipment blank (2501301440Y) at 0.53 ng/L.**

Well ID	Event Date	SW-846 Method 8270D QA Narratives
BLM-6-488	**1/2/2025**	**For SW-846 Method 8270, multiple analytes were detected in the method blank.**

Well ID	Event Date	SW-846 Method 8270D QA Narratives
BLM-6-488	1/2/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl-, Cyclohexane, Phenol, 4-(1,1-dimethylpropyl), and Unknown were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
BLM-6-488	1/2/2025	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
100-F-358	1/14/2025	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
100-F-358	1/14/2025	For SW-846 Method 8270,analytes Butane,2-methoxy-2-methyl-, Cyclohexane, Unknown, and Squalene were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
100-F-358	1/14/2025	For SW-846 Method 8270,analytes Butane,2-methoxy-2-methyl- and Cyclohexane were detected in the method blank.
100-G-223	1/14/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- and Cyclohexane reported results are from a dilution.
100-G-223	1/14/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- (390 ug/L) and Cyclohexane (21 ug/L) were estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
100-G-223	1/14/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- and Cyclohexane were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
300-F-175	1/15/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- (350 ug/L) and Cyclohexane (17 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
300-F-175	1/15/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- and Cyclohexane were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
300-F-175	1/15/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl- and Cyclohexane were detected in the method blank.
600A-004-GW	1/28/2025	For SW-846 Method 8270, analytes Butane,2-methoxy-2-methyl-, Benzenesulfonamide,N-butyl-, Bromacil, and n-Hexadecanoic acid were tentatively identified by a GC/MS library search and the amount reported is an estimated value.
600A-004-GW	1/28/2025	For SW-846 Method 8270, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.

Well ID	Event Date	Total Metals QA Narratives
400-A-151	1/2/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
400-A-151	1/2/2025	For Total Metals, analytes Molybdenum, Total and Vanadium, Total, were detected in the method blank.
BLM-6-488	1/2/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
BLM-6-488	1/2/2025	For Total Metals, analytes Molybdenum, Total and Vanadium, Total were detected in the method blank.
BLM-10-517	1/3/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
BLM-10-517	1/3/2025	For Total Metals, analytes Molybdenum, Total and Vanadium, Total were detected in the method blank.

Well ID	Event Date	Total Metals QA Narratives
B655-EFF-2	**1/7/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
B655-EFF-2	**1/7/2025**	**For Total Metals, analytes Barium, Total, and Vanadium, Total, were detected in the method blank.**
B655-EFF-2	**1/7/2025**	**For Total Metals, field duplicate samples 2501071318 and 2501071319 the relative percent difference for Zinc, Total was 185.5%. This value is outside the upper acceptance limit for relative percent difference of 25%.**
B655-INF-2	**1/7/2025**	**For Total Metals, analytes Barium, Total, and Vanadium, Total, were both detected in the method blank.**
B655-INF-2	**1/7/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-15-305	**1/13/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-17-550	**1/13/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-F-358	1/14/2025	For Total Metals, there were no detections in the field blank.
100-F-358	**1/14/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
100-G-223	**1/14/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
300-F-175	**1/15/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
JP-3-509	1/16/2025	For Total Metals, relative percent differences (RPD) for duplicate samples 2501161340C and 2501161341C were within control limits or below the calculable range.
JP-3-509	**1/16/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
JP-3-509	**1/16/2025**	**For Total Metals, analytes Magnesium, Total, Barium, Total, and Vanadium, Total, were detected in the method blank.**
JP-3-689	**1/16/2025**	**For Total Metals, analytes Magnesium, Total, Barium, Total, and Vanadium, Total were detected in the method blank.**
JP-3-689	**1/16/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
BLM-18-430	**1/17/2025**	**For Total Metals in blind control sample (2501171002B), the percent recovery for multiple metals were outside of the standard limits (75-125%). Affected data are appropriately qualified.**
BLM-18-430	**1/17/2025**	**For Total Metals, multiple analytes had results for a blind control samples that were outside standard limits.**
BLM-18-430	**1/17/2025**	**For Total Metals,analytes Magnesium, Total, Selenium, Total, Cobalt, Total, Barium, Total, and Manganese, Total were detected in the method blank.**
BLM-18-430	**1/17/2025**	**For Total Metals,analytes Magnesium, Total, Barium, Total, and Vanadium, Total were detected in the method blank.**
BLM-18-430	**1/17/2025**	**For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.**
PL-6-1195	**1/22/2025**	**For Total Metals, analytes Masnesium, total, Barium, total, Vanadium, total, Selenium, total, and Cobalt, total, were detected in the method blank.**

Well ID	Event Date	Total Metals QA Narratives
PL-6-1195	1/22/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
600-G-138	1/27/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
600-G-138	1/27/2025	For Total Metals, analytes Barium, total, and Vanadium, total, were detected in the method blanks.
PL-6-1335	1/27/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
PL-6-1335	1/27/2025	For Total Metals, analytes Vanadium, total, and Barium, total, were detected in the method blank.
600A-004-GW	1/28/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
600A-004-GW	1/28/2025	For Total Metals, Barium, Total was detected in the field blank (2501280956C) at 0.007 mg/L. Cadmium, Total was detected in the field blank (2501280956C) at 0.0006 mg/L. Cobalt, Total was detected in the field blank (2501280956C) at 0.002 mg/L. Magnesium, Total was detected in the field blank (2501280956C) at 0.05 mg/L. Strontium, Total was detected in the field blank (2501280956C) at 0.004 mg/L. Vanadium, Total was detected in the field blank (2501280956C) at 0.002 mg/L.
600A-004-GW	1/28/2025	For Total Metals, analytes Barium, total, and Vanadium, total, were detected in the method blank.
PL-6-915	1/28/2025	For Total Metals, analytes Cobalt, total, and Vanadium, total were detected in the method blank.
PL-6-915	1/28/2025	For Total Metals, multiple analytes result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
PL-6-915	1/28/2025	For Total Metals, Cobalt, Total was detected in the equipment blank (2501281352Y) at 0.001 mg/L. Magnesium, Total was detected in the equipment blank (2501281352Y) at 0.08 mg/L. Sodium, Total was detected in the equipment blank (2501281352Y) at 0.7 mg/L. Strontium, Total was detected in the equipment blank (2501281352Y) at 0.006 mg/L. Vanadium, Total was detected in the equipment blank (2501281352Y) at 0.0008 mg/L. Zinc, Total was detected in the equipment blank (2501281352Y) at 0.037 mg/L.

Well ID	Event Date	Miscellaneous QA Narratives
100-F-358	1/14/2025	For EPA Method 353.2, analyte Nitrate+Nitrate as Nitrogen (0.005 mg/L) was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
100-G-223	1/14/2025	For EPA Method 6850, analyte Perchlorate (0.059 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.
300-F-175	1/15/2025	For EPA Method 6850, analyte Perchlorate (0.16 ug/L) result was estimated value less than the quantitation limit, but greater than or equal to the detection limit. The analyte(s) is flagged accordingly.

Table 8 – WSTF Blank Sample Detections

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
B650-EFF-1	07-Jan-25	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.4	ng/L	J K RB FB
B650-INF-1	07-Jan-25	Carboy PF1	8260	VOA-FB	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.43	ug/L	J FB

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
B650-INF-1	07-Jan-25	Carboy PF1	8260	VOA-FB	79-01-6	Trichloroethene (TCE)	0.21	ug/L	J FB
B655-EFF-2	07-Jan-25	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.36	ng/L	J K RB FB
BLM-15-305	13-Jan-25	Carboy G2	8260	VOA-FB	TIC	Unknown	15	ug/L	J TIC
BLM-17-550	13-Jan-25	Carboy G2	8260	VOA-FB	TIC	Unknown	15	ug/L	J TIC
WW-5-809	13-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
WW-5-809	13-Jan-25	Carboy G1	8260_LL	VOA-TB	TIC	Unknown	12	ug/L	J TIC
WW-5-909	13-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
100-F-358	14-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
100-F-358	14-Jan-25	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.34	ng/L	A J FB
100-G-223	14-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
JER-1-483	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
JER-1-563	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
JER-1-683	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
WELL K	14-Jan-25	Carboy G3	8260_LL	VOA-EB	TIC	Unknown	13	ug/L	J TIC
WELL M	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	14	ug/L	J TIC
PFE-5	16-Jan-25	Carboy PF1	8260	VOA-FB	TIC	Unknown	5.2	ug/L	J TIC
PFE-4A	17-Jan-25	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.54	ng/L	FB
PL-6-1195	22-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.62	ng/L	K RB TB EB
PL-6-1195	22-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.49	ng/L	K RB TB EB
PL-6-1335	27-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.72	ng/L	RB TB EB
PL-6-1335	27-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.53	ng/L	K RB TB EB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7439-95-4	Magnesium, Total	0.05	mg/L	J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-39-3	Barium, Total	0.007	mg/L	RB J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-24-6	Strontium, Total	0.004	mg/L	J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-48-4	Cobalt, Total	0.002	mg/L	RB J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-62-2	Vanadium, Total	0.002	mg/L	RB J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-43-9	Cadmium, Total	0.0006	mg/L	RB J FB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-23-5	Sodium, Total	0.7	mg/L	J EB
PL-6-915	28-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.49	ng/L	K RB EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7439-95-4	Magnesium, Total	0.08	mg/L	J EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-66-6	Zinc, Total	0.037	mg/L	EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-24-6	Strontium, Total	0.006	mg/L	J EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-48-4	Cobalt, Total	0.001	mg/L	RB J EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-62-2	Vanadium, Total	0.0008	mg/L	RB J EB
PL-6-725	30-Jan-25	Carboy G1	8260_LL	VOA-TB	TIC	Unknown	14	ug/L	J TIC
PL-6-725	30-Jan-25	Carboy G1	8260_LL	VOA-EB	TIC	Unknown	14	ug/L	J TIC
PL-6-725	30-Jan-25	Carboy G1	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.53	ng/L	EB

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
B650-EFF-1	07-Jan-25	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.4	ng/L	J K RB FB
B650-INF-1	07-Jan-25	Carboy PF1	8260	VOA-FB	76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.43	ug/L	J FB
B650-INF-1	07-Jan-25	Carboy PF1	8260	VOA-FB	79-01-6	Trichloroethene (TCE)	0.21	ug/L	J FB
B655-EFF-2	07-Jan-25	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.36	ng/L	J K RB FB
BLM-15-305	13-Jan-25	Carboy G2	8260	VOA-FB	TIC	Unknown	15	ug/L	J TIC
BLM-17-550	13-Jan-25	Carboy G2	8260	VOA-FB	TIC	Unknown	15	ug/L	J TIC
WW-5-809	13-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
WW-5-809	13-Jan-25	Carboy G1	8260_LL	VOA-TB	TIC	Unknown	12	ug/L	J TIC
WW-5-909	13-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
100-F-358	14-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
100-F-358	14-Jan-25	Carboy G1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.34	ng/L	A J FB
100-G-223	14-Jan-25	Carboy G1	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
JER-1-483	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	13	ug/L	J TIC
JER-1-563	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
JER-1-683	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	12	ug/L	J TIC
WELL K	14-Jan-25	Carboy G3	8260_LL	VOA-EB	TIC	Unknown	13	ug/L	J TIC
WELL M	14-Jan-25	Carboy G3	8260_LL	VOA-FB	TIC	Unknown	14	ug/L	J TIC
PFE-5	16-Jan-25	Carboy PF1	8260	VOA-FB	TIC	Unknown	5.2	ug/L	J TIC
PFE-4A	17-Jan-25	Carboy PF1	NDMA_LL	NDMA_LL-FB	62-75-9	N-Nitrosodimethylamine	0.54	ng/L	FB
PL-6-1195	22-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.62	ng/L	K RB TB EB
PL-6-1195	22-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.49	ng/L	K RB TB EB
PL-6-1335	27-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.72	ng/L	RB TB EB
PL-6-1335	27-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-TB	62-75-9	N-Nitrosodimethylamine	0.53	ng/L	K RB TB EB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7439-95-4	Magnesium, Total	0.05	mg/L	J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-39-3	Barium, Total	0.007	mg/L	RB J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-24-6	Strontium, Total	0.004	mg/L	J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-48-4	Cobalt, Total	0.002	mg/L	RB J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-62-2	Vanadium, Total	0.002	mg/L	RB J FB
600A-004-GW	28-Jan-25	Carboy G1	METALS	METALS-FB	7440-43-9	Cadmium, Total	0.0006	mg/L	RB J FB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-23-5	Sodium, Total	0.7	mg/L	J EB
PL-6-915	28-Jan-25	Carboy G3	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.49	ng/L	K RB EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7439-95-4	Magnesium, Total	0.08	mg/L	J EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-66-6	Zinc, Total	0.037	mg/L	EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-24-6	Strontium, Total	0.006	mg/L	J EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-48-4	Cobalt, Total	0.001	mg/L	RB J EB
PL-6-915	28-Jan-25	Carboy G3	METALS	METALS-EB	7440-62-2	Vanadium, Total	0.0008	mg/L	RB J EB

Well ID	Event Date	Comment	Analysis	Sample Type	CAS No.	Analyte	Result	Units	QA flag
PL-6-725	30-Jan-25	Carboy G1	8260_LL	VOA-TB	TIC	Unknown	14	ug/L	J TIC
PL-6-725	30-Jan-25	Carboy G1	8260_LL	VOA-EB	TIC	Unknown	14	ug/L	J TIC
PL-6-725	30-Jan-25	Carboy G1	NDMA_LL	NDMA_LL-EB	62-75-9	N-Nitrosodimethylamine	0.53	ng/L	EB

Appendix D
Comparison to Cleanup Levels

Appendix D.1: Groundwater Monitoring Wells
Appendix D.2: PFTS
Appendix D.3: MPITS

Appendix D.1
Groundwater Monitoring Wells

Analytical Results for Groundwater Monitoring Wells that Exceed Clean Up Levels

CAS Number 62-75-9 Cleanup **Analyte N-Nitrosodimethylamine**

Level 0.00491 ug/L (4.91 ng/L) **Source GMP**

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
200-I-795	11/14/2024	607	2411150711Y	N-Nitrosodimethylamine	0.02	µg/L	0.0098	0.0049	47	
300-001-GS	12/12/2024	607	2412121337C	N-Nitrosodimethylamine	10.49	µg/L	0.49	0.24	58	D *
300-001-GS	12/12/2024	8270	2412121338C	N-Nitrosodimethylamine	12	ug/L	10	1.0		
300-002-GS	12/16/2024	607	2412161347C	N-Nitrosodimethylamine	0.26	µg/L	0.0095	0.0048	58	
400-001-GW	11/19/2024	607	2411191343A	N-Nitrosodimethylamine	2.86	µg/L	0.0095	0.0048	52	
400-001-GW	11/19/2024	8270	2411191344A	N-Nitrosodimethylamine	3.8	ug/L	10	1.0		J
400-A-151	1/2/2025	607	2501021403A	N-Nitrosodimethylamine	5.16	µg/L	0.0094	0.0047	39	
400-C-143	11/12/2024	607	2411120932A	N-Nitrosodimethylamine	2.75	µg/L	0.0095	0.0048	47	
400-C-143	11/12/2024	8270	2411120933A	N-Nitrosodimethylamine	4.7	ug/L	10	1.0		J
400-EV-131	12/11/2024	607	2412110947A	N-Nitrosodimethylamine	0.62	µg/L	0.0097	0.0049	57	
400-FV-131	12/11/2024	607	2412110938C	N-Nitrosodimethylamine	0.3	µg/L	0.0097	0.0049	57	
400-FV-131	12/11/2024	607	2412110939C	N-Nitrosodimethylamine	0.32	µg/L	0.0095	0.0048	57	
400-GV-125	12/11/2024	607	2412111113C	N-Nitrosodimethylamine	0.92	µg/L	0.0095	0.0048	57	
400-GV-125	12/11/2024	607	2412111114C	N-Nitrosodimethylamine	0.93	µg/L	0.0097	0.0049	57	
400-HV-147	12/11/2024	607	2412111032A	N-Nitrosodimethylamine	164.57	µg/L	0.95	0.48	57	D *
400-JV-150	12/11/2024	607	2412111238C	N-Nitrosodimethylamine	1.67	µg/L	0.0096	0.0048	57	
BLM-15-305	1/13/2025	607	2501131402C	N-Nitrosodimethylamine	6.14	µg/L	0.048	0.024	35	D
BLM-17-493	11/7/2024	607	2411070940A	N-Nitrosodimethylamine	0.75	µg/L	0.0097	0.0049	44	
BLM-17-550	1/13/2025	607	2501131032C	N-Nitrosodimethylamine	0.29	µg/L	0.0095	0.0048	35	
BLM-17-550	1/13/2025	607	2501131033C	N-Nitrosodimethylamine	0.29	µg/L	0.0095	0.0048	35	
BLM-26-404	11/14/2024	607	2411140902A	N-Nitrosodimethylamine	0.14	µg/L	0.0095	0.0048	47	
BLM-27-270	12/10/2024	607	2412100933A	N-Nitrosodimethylamine	2.34	µg/L	0.0095	0.0048	57	
BLM-27-270	12/10/2024	607	2412100934A	N-Nitrosodimethylamine	2.47	µg/L	0.0094	0.0047	57	
BLM-36-350	11/8/2024	607	2411081337Y	N-Nitrosodimethylamine	0.5	µg/L	0.0096	0.0048	44	
BLM-36-350	11/8/2024	607	2411081400Y	N-Nitrosodimethylamine	0.45	µg/L	0.0094	0.0047	44	
BLM-42-709	12/9/2024	NDMA_LL	2412091006A	N-Nitrosodimethylamine	6.29	ng/L	0.47	0.34		A RB FB
BW-5-295	11/8/2024	607	2411081019A	N-Nitrosodimethylamine	0.46	µg/L	0.0097	0.0049	44	
BW-7-211	12/10/2024	607	2412101342A	N-Nitrosodimethylamine	1.04	µg/L	0.01	0.0052	57	
NASA 6	11/20/2024	607	2411201033C	N-Nitrosodimethylamine	15.63	µg/L	0.0095	0.0048	52	G
NASA 6	11/20/2024	607	2411201033C	N-Nitrosodimethylamine	20.95	µg/L	0.95	0.48	52	D
NASA 6	11/20/2024	607	2411201034C	N-Nitrosodimethylamine	16.53	µg/L	0.0096	0.0048	52	G
NASA 6	11/20/2024	607	2411201034C	N-Nitrosodimethylamine	24.33	µg/L	0.96	0.48	52	D
PL-2-504	12/16/2024	NDMA_LL	2412161016A	N-Nitrosodimethylamine	24.16	ng/L	0.48	0.35		
PL-2-504	12/16/2024	NDMA_LL	2412161014A	N-Nitrosodimethylamine	24.71	ng/L	0.47	0.34		

CAS Number 62-75-9 **Analyte** N-Nitrosodimethylamine

Cleanup Level 0.00491 ug/L (4.9 ng/L) **Source** GMP

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
ST-1-473	11/14/2024	607	2411141412C	N-Nitrosodimethylamine	0.23	µg/L	0.0097	0.0049	47	
ST-1-541	11/14/2024	607	2411140917C	N-Nitrosodimethylamine	1.55	µg/L	0.0097	0.0049	47	
ST-1-630	11/18/2024	607	2411181017A	N-Nitrosodimethylamine	0.24	µg/L	0.0095	0.0048	52	
ST-3-486	12/6/2024	607	2412060928C	N-Nitrosodimethylamine	0.02	µg/L	0.0095	0.0048	58	
ST-3-735	12/5/2024	607	2412051432C	N-Nitrosodimethylamine	0.23	µg/L	0.0094	0.0047	58	

CAS Number 127-18-4 **Analyte** Tetrachloroethene (PCE)

Cleanup Level 5 ug/L **Source** GMP

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
ST-1-473	11/14/2024	8260	2411141410C	Tetrachloroethene (PCE)	6.7	ug/L	1.0	0.21		
ST-1-541	11/14/2024	8260	2411140915C	Tetrachloroethene (PCE)	5.6	ug/L	1.0	0.21		
ST-1-630	11/18/2024	8260	2411181015A	Tetrachloroethene (PCE)	10	ug/L	1.0	0.21		

CAS Number 79-01-6 **Analyte** Trichloroethene (TCE)

Cleanup Level 5 ug/L **Source** GMP

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
200-I-300	11/18/2024	8260	2411181316Y	Trichloroethene (TCE)	31	ug/L	1.0	0.20		
200-I-300	11/18/2024	8260	2411181315Y	Trichloroethene (TCE)	34	ug/L	1.0	0.20		
600A-004-G	1/28/2025	8260	2501280950C	Trichloroethene (TCE)	28	ug/L	1.0	0.20		
600-G-138	1/27/2025	8260	2501271000A	Trichloroethene (TCE)	47	ug/L	1.0	0.20		
600-G-138	1/27/2025	8260	2501271001A	Trichloroethene (TCE)	49	ug/L	1	0.2		
BLM-15-305	1/13/2025	8260	2501131400C	Trichloroethene (TCE)	9.8	ug/L	1.0	0.20		
BLM-17-493	11/7/2024	8260	2411070938A	Trichloroethene (TCE)	48	ug/L	1.0	0.20		
BLM-17-550	1/13/2025	8260	2501131030C	Trichloroethene (TCE)	75	ug/L	1.0	0.20		
BLM-18-430	1/17/2025	8260	2501170930B	Trichloroethene (TCE)	18	ug/L	1.0	0.20		Q
BLM-26-404	11/14/2024	8260	2411140900A	Trichloroethene (TCE)	23	ug/L	1.0	0.20		
BLM-3-182	11/7/2024	8260	2411071353A	Trichloroethene (TCE)	20	ug/L	1.0	0.20		
BLM-36-350	11/8/2024	8260	2411081335Y	Trichloroethene (TCE)	64	ug/L	1.0	0.20		
BLM-36-350	11/8/2024	8260	2411081336Y	Trichloroethene (TCE)	62	ug/L	1.0	0.20		
BW-4-330	11/27/2024	8260	2411270925C	Trichloroethene (TCE)	71	ug/L	1.0	0.20		
BW-4-330	11/27/2024	8270	2411270928C	Trichloroethene (TCE)	6.9	ug/L	NA	NA		J TIC
PL-12-570	11/13/2024	8260	2411131000A	Trichloroethene (TCE)	6.5	ug/L	1.0	0.20		
PL-12-570	11/13/2024	8260	2411131001A	Trichloroethene (TCE)	6.7	ug/L	1.0	0.20		
PL-12-800	11/13/2024	8260	2411131420A	Trichloroethene (TCE)	5.5	ug/L	1.0	0.20		
PL-2-504	12/16/2024	8260	2412161010A	Trichloroethene (TCE)	46	ug/L	1.0	0.20		
ST-1-473	11/14/2024	8260	2411141410C	Trichloroethene (TCE)	160	ug/L	2.0	0.40		D
ST-1-541	11/14/2024	8260	2411140915C	Trichloroethene (TCE)	130	ug/L	1.0	0.20		
ST-1-630	11/18/2024	8260	2411181015A	Trichloroethene (TCE)	270	ug/L	5.0	1.0		D
ST-3-486	12/6/2024	8260	2412060926C	Trichloroethene (TCE)	8.2	ug/L	1.0	0.20		
ST-3-735	12/5/2024	8260	2412051430C	Trichloroethene (TCE)	15	ug/L	1.0	0.20		
ST-7-544	1/6/2025	8260_LL	2501061245B	Trichloroethene (TCE)	5.8	ug/L	0.50	0.20		

Appendix D.2
PFTS

Analytical Results for PFTS and PFE Wells that Exceed Clean Up Levels

CAS Number 62-75-9 CleanupAnalyte N-Nitrosodimethylamine

Level 0.00491 ug/L (4.91 ng/L) Source GMP

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
B650-INF-1	11/18/2024	607	2411181008	N-Nitrosodimethylamine	0.07	µg/L	0.0097	0.0049	52	
B650-INF-1	12/5/2024	607	2412050922	N-Nitrosodimethylamine	0.05	µg/L	0.0095	0.0048	58	
B650-INF-1	1/7/2025	607	2501071252	N-Nitrosodimethylamine	0.06	µg/L	0.0097	0.0049	40	
PFE-1	1/15/2025	607	2501151242	N-Nitrosodimethylamine	0.05	µg/L	0.0095	0.0048	35	
PFE-2	1/15/2025	607	2501151303	N-Nitrosodimethylamine	0.12	µg/L	0.0095	0.0048	35	
PFE-2	1/15/2025	607	2501151302	N-Nitrosodimethylamine	0.12	µg/L	0.0095	0.0048	35	
PFE-3	1/16/2025	607	2501161322	N-Nitrosodimethylamine	0.08	µg/L	0.0094	0.0047	40	
PFE-4A	1/17/2025	NDMA_LL	2501170753	N-Nitrosodimethylamine	20.44	ng/L	0.48	0.35		
PFE-5	1/16/2025	607	2501161229	N-Nitrosodimethylamine	0.18	µg/L	0.0099	0.005	40	

CAS Number 79-01-6 **Analyte** Trichloroethene (TCE)

Cleanup Level 5 ug/L **Source** GMP

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
B650-INF-1	11/18/2024	8260	2411181005	Trichloroethene (TCE)	20	ug/L	1.0	0.20		
B650-INF-1	11/18/2024	8260	2411181006	Trichloroethene (TCE)	21	ug/L	1.0	0.20		
B650-INF-1	12/5/2024	8260	2412050920	Trichloroethene (TCE)	16	ug/L	1.0	0.20		
B650-INF-1	1/7/2025	8260	2501071250	Trichloroethene (TCE)	17	ug/L	1.0	0.20		FB
PFE-1	1/15/2025	8260	2501151240	Trichloroethene (TCE)	7.3	ug/L	1.0	0.20		
PFE-2	1/15/2025	8260	2501151300	Trichloroethene (TCE)	71	ug/L	1.0	0.20		
PFE-3	1/16/2025	8260	2501161320	Trichloroethene (TCE)	34	ug/L	1.0	0.20		
PFE-5	1/16/2025	8260	2501161227	Trichloroethene (TCE)	36	ug/L	1.0	0.20		

Appendix D.3
MPITS

Analytical Results for MPITS and MPE Wells that Exceed Clean Up Levels

CAS Number 62-75-9 **Analyte N-Nitrosodimethylamine**

Clean Up Level 0.00491 ug/L (4.91 ng/L) **Source GMP**

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
B655-INF-2	11/18/2024	607	2411181259	N-Nitrosodimethylamine	1.94	µg/L	0.0094	0.0047	52	
B655-INF-2	1/7/2025	607	2501071339	N-Nitrosodimethylamine	1.78	µg/L	0.0095	0.0048	40	
B655-INF-2	12/5/2024	607	2412051013	N-Nitrosodimethylamine	1.88	µg/L	0.0094	0.0047	58	
MPE-1	11/19/2024	607	2411191257	N-Nitrosodimethylamine	2.78	µg/L	0.0095	0.0048	52	
MPE-10	11/19/2024	607	2411191002	N-Nitrosodimethylamine	2.34	µg/L	0.0096	0.0048	52	
MPE-11	11/19/2024	607	2411191314	N-Nitrosodimethylamine	0.17	µg/L	0.0095	0.0048	52	
MPE-9	11/19/2024	607	2411190942	N-Nitrosodimethylamine	2.64	µg/L	0.011	0.0053	52	

CAS Number 79-01-6 **Analyte** Trichloroethene (TCE)

Clean Up Level 5 ug/L **Source** GMP

Well ID	Event Date	Analysis Method	Sample	Constituent	Result	Units	Quant Limit	Det Limit	Xtrct Effic	QA Flag
B655-INF-2	11/18/2024	8260	2411181257	Trichloroethene (TCE)	61	ug/L	1.0	0.20		
B655-INF-2	1/7/2025	8260	2501071338	Trichloroethene (TCE)	57	ug/L	1.0	0.20		
B655-INF-2	1/7/2025	8260	2501071337	Trichloroethene (TCE)	56	ug/L	1.0	0.20		
B655-INF-2	12/5/2024	8260	2412051011	Trichloroethene (TCE)	51	ug/L	1.0	0.20		
B655-INF-2	12/5/2024	8260	2412051010	Trichloroethene (TCE)	53	ug/L	1.0	0.20		
MPE-1	11/19/2024	8260	2411191255	Trichloroethene (TCE)	70	ug/L	1.0	0.20		
MPE-10	11/19/2024	8260	2411191000	Trichloroethene (TCE)	52	ug/L	1.0	0.20		
MPE-9	11/19/2024	8260	2411190940	Trichloroethene (TCE)	76	ug/L	1.0	0.20		

Appendix E
Time-Concentration Plots

Concentration trends for four of the primary WSTF COCs (Freon 11, TCE, PCE, and NDMA)

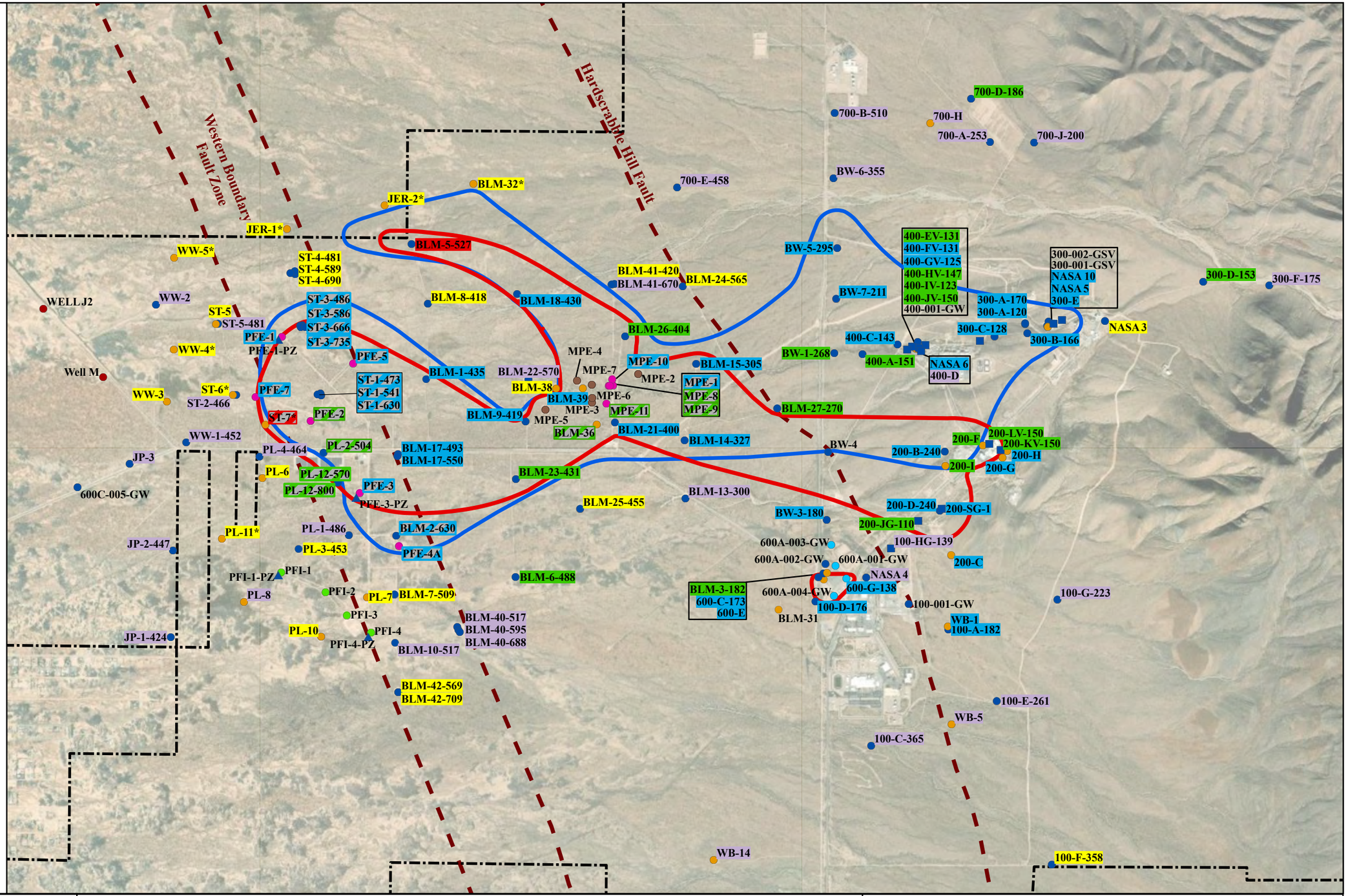
Interpretation Key

- Non-Detect All Primary COCs
- Fluctuating Low-Level NDMA Detections (Detection Limit to <4.9 ng/L) and Non-Detect for Other Primary COCs
- Fluctuating Low-Level NDMA Detections (≥4.9 ng/L) and Non-Detect for Other Primary COCs
- Natural Migration: No Overall Trend of One or More Primary COCs
- Natural Migration: Decreasing Trend of One or More Primary COCs
- Natural Migration: Increasing Trend of One or More Primary COCs
- Pumping-Related Migration: No Overall Trend of One or More Primary COCs
- Pumping-Related Migration: Decreasing Trend of One or More Primary COCs
- Pumping-Related Migration: Increasing Trend of One or More Primary COCs

No Color Indicates a Well with Insufficient Data for a Trend OR a water production well

Note: The identification of a trend for COC concentrations within a specific well is based on the evaluation of analytical data collected over a minimum of four sampling events (data points) to provide adequate data for statistical analyses. Each T-C trend evaluation emphasizes the most recent analytical results, which may supersede earlier trends that may have been evident following initial well installation

See Report Section 6.3 for more information
See Appendix E for Time-Concentration plots and Table Interpretations.





1:29,000

April 2025

0 1,250 2,500 5,000 Feet

Well Type

- Multiport Well
- Conventional Well
- Perched Well
- MSVGM Well
- Extraction Well
- Injection Well
- Piezometer
- Exploration Well
- Production Well

* Multiport well with FLUTe sampling system.

Other

- NDMA Cleanup Level (4.9 ng/L)
- TCE Cleanup Level (5.0 ug/L)
- WSTF Boundary
- Fault

Time Concentration Plot Interpretations for First Quarter 2025

NASA Johnson Space Center
White Sands Test Facility Las Cruces, New Mexico

Coordinate System:
NAD 1983 HARN StatePlane New Mexico Central FIPS 3002 Feet

G:\Projects\environmental\PMR\2025\1Q2025\AppE_Map\

Appendix E:

Reporting Period: 1Q/2025

Summary of Maximum Concentrations, Current Concentrations and T-C Plot Interpretations for WSTF Monitoring Well Network

Upgradient Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
100-F-358 Conv	2005	Fluctuating LL NDMA (<4.9 ng/L)	0.48 DL	2010	0.24 DL	2025	0.43 DL	2010	0.21 DL	2025	0.63 DL	2010	0.2 DL	2025	0.005 DL	NP	2024	0.004 DL	NP	2025	0.4 DL	2025	0.40 A J FB	2025
100-G-223 Conv	2005	Non Detect	0.48 DL	2010	0.24 DL	2025	0.43 DL	2010	0.21 DL	2025	0.63 DL	2010	0.2 DL	2025	0.005 DL	NP	2012	0.004 DL	NP	2025	0.37 DL	2024	0.35 DL	2025
300-F-175 Conv	2005	Non Detect	0.48 DL	2010	0.24 DL	2025	0.43 DL	2010	0.21 DL	2025	0.63 DL	2010	0.2 DL	2025	0.005 DL	NP	2016	0.004 DL	NP	2025	0.36 J	2024	0.35 J	2025
NASA 3 Conv	1988	Fluctuating LL NDMA (<4.9 ng/L)	5.00 RL	1988	0.42 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2023	0.65 FB	2024	0. FB	2024

100/600 Area Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
100-001-GW Conv	2024	New Well	46	2024	46	2024	0.21 DL	2024	0.21 DL	2024	0.2 DL	2024 DL	0.2	2024	0.004 DL	NP	2004	0.004 DL	NP	2024	N/A		N/A	
100-A-182 Conv	1989	Natural Migration (Decreasing)	5.00	1995	2.1	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
100-D-176 Conv	1997	Natural Migration (Decreasing)	1.60 DL	2003	0.24 DL	2024	2.00 DL	1999	0.21 DL	2024	9.60	1999	4.50	2023	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
100-HG-139 MSVGM	2011	Non Detect	0.79 J	2011	0.24 DL	2024	0.33 J	2015	0.21 DL	2024	10	2014	0.2 DL	2024	0.005 DL	NP	2020	0.004 DL	NP	2024	0.93 RB FB	2012	0.93 RB FB	2012
600A-001-GW Conv	2024	New Well	0		0		0		0		0		0		0			0			N/A		N/A	
600A-002-GW Conv	2024	New Well	0		0		0		0		0		0		0			0			N/A		N/A	
600A-003-GW Conv	2025	New Well	0		0		0		0		0		0		0			0			N/A		N/A	
600A-004-GW Conv	2025	New Well	0.24 DL0	2025	0.24DL	2025	0.21 DL	2025	0.21 DL	2025	28	2025	28	2025	0.004 DL	38	2025	0.004 DL	38	2025	N/A		N/A	
600-C-173 Conv	1988	Natural Migration (Decreasing)	5.00 RL	1988	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	9.00	1998	1.50	2024	0.1	NP	1988	0.004 DL	NP	2024	N/A		N/A	

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
600-E Westbay	1998	Natural Migration (Decreasing)	1.60 DL	2002	0.24 DL	2024	2.00 DL	1999	0.21 DL	2024	2.00 DL	1999	0.36 J	2024	0.005 DL	NP	2016	0.004 DL	NP	2024	N/A		N/A	
600-G-138 Conv	2011	Natural Migration (Decreasing)	5.10	2017	0.49 J	2025	0.3 DL	2018	0.21 DL	2025	130	2012	49	2025	0.1 DL	NP	2021	0.005 DL	NP	2024	0.96 RB FB	2012	0.96 RB FB	2012
BLM-3-182 Conv	1988	Natural Migration (No Overall Trend)	10	1988	0.41 J	2024	2.50 RL	1995	0.21 DL	2024	41	1991	20	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
BW-3-180 Conv	1988	Natural Migration (Decreasing)	10	1988	0.31 JQ	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
NASA 4 Conv	1988	Non Detect	5.00 RL	1988	0.24 DL	2024	2.50 RL	1995	0.21 DL	2024	3.50	2009	0.2 DL	2024	0.05 RL	NP	1997	0.005 DL	NP	2024	N/A		N/A	
WB-1 Westbay	1990	Natural Migration (Decreasing)	15	1996	0.24 QD	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.31 J	2024	0.05 RL	NP	1993	0.004 DL	NP	2024	N/A		N/A	

200 Area Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
200-B-240 Conv	1989	Natural Migration (Decreasing)	280	1996	14	2024	15 QD	1989	0.78 J	2024	290 QD	1989	15	2024	1.60	25	1993	0.15	53	2024	N/A		N/A	
200-C Westbay	1993	Natural Migration (Decreasing)	51	1996	12	2024	2.50 RL	1996	0.21 DL	2024	4.30	2003	1.50	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
200-D-240 Conv	1988	Natural Migration (Decreasing)	240 QD	1995	59	2024	2.50 RL	1995	0.3 J	2024	110	1990	15	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
200-F Westbay	1995	Natural Migration (No Overall Trend)	41	2005	2.50	2024	2.50 RL	1996	0.34 J	2024	34	2009	20	2024	0.41 J A	1	2021	0.004 DL	NP	2024	N/A		N/A	
200-G Westbay	1995	Natural Migration (Decreasing)	55	1995	4.10 QD	2024	2.50 RL	1996	0.21 DL	2024	4.80	2004	1.40	2024	0.05 RL	NP	1997	0.005 DL	NP	2024	N/A		N/A	
200-H Westbay	1994	Natural Migration (Decreasing)	6.00	2003	0.93 J	2024	2.50 RL	1996	0.21 DL	2024	3.00 J	1997	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
200-I Westbay	1997	Natural Migration (No Overall Trend)	2.40 J	1999	0.42J	2024	2.00 DL	1999	0.61 J	2024	35	2019	34	2024	0.021 J	42	2006	0.42 DL	NP	2024	N/A		N/A	
200-JG-110 MSVGM	2012	Natural Migration (No Overall Trend)	17	2013	6.00	2024	2.20	2020	1.60	2024	25	2013	24	2024	0.005 DL	NP	2012	0.004 DL	NP	2024	0.93 J	2012	0.93 J	2012

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
200-KV-150 MSVGM	2015	Natural Migration (No Overall Trend)	90	2020	41	12024	0.3 DL	2015	0.21 DL	2024	22	2020	11	2024	0.005 DL	NP	2020	0.004 DL	NP	2024	N/A		N/A	
200-LV-150 Conv	2018	Natural Migration (Decreasing)	0.27 DL	2018	0.24 DL	2024	0.3 DL	2018	0.21 DL	2024	0.89 J Q	2018	0.36 J	2024	0.004 DL	NP	2018	0.004 DL	NP	2024	N/A		N/A	
200-SG-1 MSVGM	2004	Natural Migration (Decreasing)	81	2008	8.10	2024	17	2007	3.90	2024	380	2007	89	2024	0.016 J	44	2008	0.004 DL	NP	2023	N/A		N/A	

300/400 Area Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
300-001-GSV MSVGM	2024	New Well	0		44	2024	0		0.21	2024	0		0.29	2024	0			18.086		2024	N/A		N/A	
300-002-GSV MSVGM	2024	New Well	0		32	2024	0		0.21	2024	0		0.33	2024	0			0.448		2024	N/A		N/A	
300-A-120 Conv	1988	Natural Migration (Decreasing)	4300 FB	1996	92	2024	2.50 RL	1996	0.21 DL	2024	2.50	2004	0.2 DL	2024	46	24	1990	2.179	50	2024	N/A		N/A	
300-A-170 Conv	1988	Natural Migration (Decreasing)	6000	1988	130	2024	2.50 RL	1996	0.21 DL	2024	7.00	1988	0.75 J	2024	48 QD	21	1995	2.936 D	63	2024	N/A		N/A	
300-B-166 Conv	1988	Natural Migration (Decreasing)	1600	1988	95	2024	2.50 RL	1996	0.21 DL	2024	8.00	1988	0.31 J	2024	14	39	1991	5.754	57	2024	N/A		N/A	
300-C-128 Conv	1988	Natural Migration (Decreasing)	3000	1988	410	2023	2.50 RL	1996	0.21 DL	2023	3.70 J	1996	1.90	2023	47	32	2000	6.30	52	2023	N/A		N/A	
300-D-153 Conv	1988	Natural Migration (No Overall Trend)	6.30	2013	6.60	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
300-E Westbay	1995	Natural Migration (Decreasing)	180	1996	9.80	2024	2.50 RL	1996	0.21 DL	2024	9.30	1997	1.20	2024	49 A	1	2021	0.015	63	2024	N/A		N/A	
400-001-GW Conv	2024	New Well	0		140	2024	0		0.21	2024	0		0.86	2024	0			5.50		2024	N/A		N/A	
400-A-151 Conv	1989	Natural Migration (No Overall Trend)	450	1990	190	2025	2.50 RL	1996	0.21 DL	2025	2.50 RL	1996	0.92 J	2025	280	18	1991	13.23 D	55	2025	N/A		N/A	
400-C-143 Conv	1989	Natural Migration (Decreasing)	1600	1989	270	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	1.30	2024	93	15	1989	5.851	52	2024	N/A		N/A	

Appendix E: Summary of Maximum Concentrations, Current Concentrations and T-C Plot Interpretations for WSTF Monitoring Well Network

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
400-D Westbay	1995	Non Detect	3.30 J EB	1996	0.24 DL	2024	3.50 J	1998	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.29	34	1996	0.004 DL	NP	2024	N/A		N/A	
400-EV-131 MSVGM	2017	Natural Migration (No Overall Trend)	520	2017	370 D	2024	0.3 DL	2018	0.21 DL	2024	13	2017	1.10	2024	3.30	46	2020	1.087	40	2024	N/A		N/A	
400-FV-131 MSVGM	2017	Natural Migration (Decreasing)	290	2021	6.90	2024	0.3 DL	2018	0.21 DL	2024	1.90	2021	1.90 J	2024	3.30	60	2020	0.561	40	2024	N/A		N/A	
400-GV-125 MSVGM	2017	Natural Migration (Decreasing)	320	2021	100 D	2024	0.3 DL	2018	0.21 DL	2024	1.80	2022	0.48	2024	5.70	44	2021	1.631	40	2024	N/A		N/A	
400-HV-147 MSVGM	2017	Natural Migration (No Overall Trend)	240	2021	110	2024	0.3 DL	2018	0.21 DL	2024	2.00	2017	0.31 J	2024	320 D	53	2021	288.719 D	48	2024	N/A		N/A	
400-IV-123 MSVGM	2017	Natural Migration (No Overall Trend)	430	2017	150	2024	0.93 J	2018	0.21 DL	2024	0.29 J	2021	0.2 DL	2024	0.041	87	2017	0.004 DL	NP	2024	N/A		N/A	
400-JV-150 MSVGM	2017	Natural Migration (No Overall Trend)	970	2021	680 D	2024	0.3 DL	2018	0.21 DL	2024	1.50	2017	0.41 J	2024	5.90	44	2021	2.929	40	2024	N/A		N/A	
BW-1-268 Conv	1989	Natural Migration (No Overall Trend)	1100	1989	190 D	2024	2.50 RL	1996	0.21 DL	2024	5.00	1989	1.30	2024	130	18	1991	9.948	44	2024	N/A		N/A	
BW-5-295 Conv	1989	Natural Migration (Decreasing)	360	1989	77	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.46 J	2024	1.90	49	1997	1.045	57	2024	N/A		N/A	
BW-7-211 Conv	1989	Natural Migration (Decreasing)	2400	1991	130	2024	2.50 RL	1995	0.21 DL	2024	13	1989	1.10	2024	17	34	1994	1.824	42	2024	N/A		N/A	
NASA 10 Conv	1988	Natural Migration (Decreasing)	250	1996	8.50	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	4.70	19	1996	0.068	48	2024	N/A		N/A	
NASA 5 Conv	1988	Natural Migration (Decreasing)	350	1991	16	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	13	19	1996	1.318	48	2024	N/A		N/A	
NASA 6 Conv	1988	Natural Migration (Decreasing)	1300	1996	190	2024	2.50 RL	1996	0.21 DL	2023	5.00	1990	0.42 J	2024	95	21	1996	46.788 D	50	2024	N/A		N/A	

Northern Boundary Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
700-A-253 Conv	1990	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
700-B-510 Conv	1990	Non Detect	2.50 RL	1995	0.24 DL	2024	2.50 RL	1995	0.21 DL	2024	2.50 RL	1995	0.2 DL	2023	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
700-D-186 Conv	1990	Natural Migration (No Overall Trend)	2.50 RL	1995	0.47 J	2024	2.50 RL	1995	0.21 DL	2024	2.50 RL	1995	0.33 J	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
700-E-458 Conv	1990	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	N/A		N/A	
700-H Westbay	1999	Non Detect	1.60 DL	2003	0.24 DL	2024	0.62 DL	2004	0.21 DL	2024	1.90 RB TB EB	2021	0.2 DL	2024	0.005 DL	NP	2013	0.004 DL	NP	2024	N/A		N/A	
700-J-200 Conv	1999	Non Detect	1.60 DL	2003	0.24 DL	2024	0.62 DL	2004	0.21 DL	2024	3.70	2005	0.2 DL	2024	0.005 DL	NP	2017	0.004 DL	NP	2024	N/A		N/A	
BLM-24-565 Conv	1991	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1995	0.24 DL	2024	2.50 RL	1995	0.21 DL	2024	2.50 RL	1995	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	0.7 RB A FB	2023	0.04 J FB	2024
BLM-32 FLUTe	1997	Fluctuating LL NDMA (<4.9 ng/L)	1.60 DL	2002	0.24 DL	2024	2.00 DL	1999	0.21 DL	2024	2.00 DL	1999	0.2 DL	2024	0.016 J	36	2004	0.004 DL	NP	2024	21	2015	1.00 FB	2024
BLM-41-420 Conv	2013	Non Detect Fluctuating LL NDMA (<4.9 ng/L)	0.27 DL	2018	0.24 DL	2024	0.3 DL	2013	0.21 DL	2024	1.00	2013	0.2 DL	2024	0.005 DL	NP	2015	0.004 DL	NP	2024	5.40	2017	0.52 TB	2024
BLM-41-670 Conv	2013	Non Detect	0.27 DL	2018	0.24 DL	2024	0.28 DL	2018	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.005 DL	NP	2013	0.004 DL	NP	2024	5.50 FB	2017	0.35	2024
BW-6-355 Conv	1992	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.32	37	2004	0.004 DL	NP	2024	N/A		N/A	
JER-1 FLUTe	2004	Fluctuating LL NDMA (<4.9 ng/L)	0.6 DL	2004	0.24 DL	2025	0.62 DL	2004	0.21 DL	2025	0.72	2011	0.2 DL	2024	0.014 J	41	2005	0.004 DL	NP	2024	360	2009	2.7 A	2025
JER-2 FLUTe	2004	Fluctuating LL NDMA (<4.9 ng/L)	0.6 DL	2004	0.24 DL	2025	0.62 DL	2004	0.21 DL	2025	0.63 DL	2010	0.2 DL	2025	0.016 J	43	2005	0.005 DL	NP	2024	290 QD	2006	1.47	2025

Southern Boundary Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
100-C-365 Conv	1989	Non Detect	1.00 DL	2010	0.24 DL	2024	1.00 DL	2010	0.21 DL	2024	1.00 DL	2010	0.2 DL	2024	0.05 RL	NP	1992	0.004 DL	NP	2024	N/A		N/A	
100-E-261 Conv	1989	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1996	0.004 DL	NP	2024	N/A		N/A	

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
BLM-13-300 Conv	1988	Non Detect	5.00 RL	1988	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.005 DL	NP	2024	0.35 DL	2024	0.35 DL	2024
BLM-25-455 Conv	1991	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2023	0.05 RL	NP	1997	0.004 DL	NP	2024	0.42 J FB	2024	0.42 J FB	2024
BLM-40-517 Conv	2013	Non Detect	0.27 DL	2018	0.24 DL	2024	0.3 DL	2017	0.21 DL	2024	0.22 DL	2017	0.2 DL	2024	0.005 DL	NP	2023	0.004 DL	NP	2024	1.80	2023	0.36 DL	2024
BLM-40-595 Conv	2013	Non Detect	0.27 DL	2018	0.24 DL	2024	0.28 DL	2018	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.005 DL	NP	2023	0.005 DL	NP	2024	0.67 FB	2014	0.38 DL	2024
BLM-40-688 Conv	2013	Non Detect	0.27 DL	2018	0.24 DL	2024	0.3 DL	2016	0.21 DL	2024	0.22 DL	2016	0.2 DL	2024	0.005 DL	NP	2023	0.004 DL	NP	2024	1.30 FB	2023	0.35 DL	2024
BLM-6-488 Conv	1990	Natural Migration (No Overall Trend)	3.10 J	1999	0.24 DL	2025	2.50 RL	1996	0.21 DL	2025	14	1999	2.80	2025	0.05 RL	NP	1997	0.004 DL	NP	2025	45 FB	2001	0.970	2025
WB-14 Westbay	1992	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.31 J	2024	0.05 RL	NP	1993	0.004 DL	NP	2024	N/A		N/A	
WB-5 Westbay	1990	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1991	0.004	NP	2024	N/A		N/A	

MPCA Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
BLM-14-327 Conv	1990	Natural Migration (Decreasing)	230	1995	79	2024	9.20	2002	1.9	2024	180	1995	62	2024	1.20	18	2002	0.4	40	2024	N/A		N/A	
BLM-15-305 Conv	1989	Natural Migration (Decreasing)	770	1991	93	2025	2.50 RL	1996	0.5 J	2025	30	2023	9.8	2024	150 A	8	1989	24 D	35	2024	N/A		N/A	
BLM-18-430 Conv	1989	Natural Migration (Decreasing)	120 QD	2005	21 Q	2025	2.50 RL	1996	0.5 J	2024	58	2009	18 Q	2025	0.15 QD	31	2009	0.004	NP	2025	N/A		N/A	
BLM-21-400 Conv	1991	Natural Migration (Decreasing)	320	1996	56	2024	12	1995	1.30	2024	220	1991	37	2024	5.60	16	1995	0.8330	48	2024	N/A		N/A	
BLM-22-570 Conv	1990	Non Detect	2.50 RL	1995	0.24 DL	2024	2.50 RL	1995	0.21 DL	2024	2.50 RL	1995	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	44	2024	0.35 DL	2023	0.34 DL	2024
BLM-23-431 Conv	1990	Natural Migration (No Overall Trend)	240	1995	45	2024	8.00	1991	2.10	2024	240	1995	59	2024	1.10	33	2006	0.4770	44	2024	N/A		N/A	
BLM-26-404 Conv	1991	Natural Migration (No Overall Trend)	110	2008	83	2024	2.50 RL	1996	0.64 J	2024	28	2008	23	2024	1.20	50	1991	00.2970	47	2024	N/A		N/A	

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
BLM-27-270 Conv	1991	Natural Migration (No Overall Trend)	530	2023	440 D	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.97	2024	13	41	2006	4.333 0	57	2024	N/A		N/A	
BLM-36 Westbay	2000	Pumping Related Migration (No Overall Trend)	98	2011	42	2024	4.40	2011	2.9	2024	97	2008	64	2024	2.00	43	2007	1.136 0	53	2024	N/A		N/A	
BLM-38 Westbay	2000	Fluctuating LL NDMA (<4.9 ng/L)	1.60 DL	2003	0.24 DL	2024	0.62 DL	2004	0.21 DL	2024	0.7 DL	2003	0.2 DL	2024	0.024 J	33	2002	0.005 DL	NP	2024	0.41 J EB	2024	0.41 J EB	2024
BLM-39 Westbay	2000	Natural Migration (Decreasing)	340	2005	110	2024	10	2007	6	2024	330 QD	2002	170	2024	9.70	19	2002	5.181 0	44	2024	N/A		N/A	
BLM-5-527 Conv	1988	Natural Migration (Increasing)	25	2023	22	2024	2.50 RL	1996	0.86 J Q	2024	33	2023	32 Q	2024	0.26	43	2022	0.289 0G	38	2024	220 G	2017	220 G	2017
BLM-8-418 Conv	1988	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1996	0.25 J	2024	2.50 RL	1996	0.21 DL	2024	3.80 QD	2001	0.22 J	2024	0.05 RL	NP	1997	0.009 J	54	2024	0.43 J	2024	0.43 J	2024
BLM-9-419 Conv	1989	Natural Migration (Decreasing)	320	1991	11	2024	12	1989	0.21 DL	2024	240	1989	7.2	2024	8.80	16	1995	0.204 0	44	2024	350 A	2024	85.65 D	2024

Main Plume Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
BLM-17-493 Conv	1989	Natural Migration (Decreasing)	480	1989	44	2024	31	1989	1.7	2024	430	1989	48	2028	11 A Q	7	1989	1.704 0	44	2023	N/A		N/A	
BLM-17-550 Conv	1990	Natural Migration (Decreasing)	440	1991	85	2025	20	1990	2.8	2025	390	1991	75	2025	8.10	16	1995	0.828 0	35	2025	N/A		N/A	
BLM-2-630 Conv	1988	Pumping Related Migration (Decreasing)	470 QD	1988	0.26 J	2024	8.00	1991	0.21 DL	2024	310 QD	1988	1	2024	1.30	31	2002	0.004 DL	NP	2024	0.36 DL	2023	0.34 DL	2024
PL-12-570 Conv	2020	Pumping Related Migration (No Overall Trend)	17	2020	6.10	2024	0.46 J	2020	0.21 DL	2024	20	2020	6.70	2024	0.005 DL	NP	2023	0.004 DL	NP	2023	34 RB A * TB FB	2023	0.690	2024
PL-12-800 Conv	2020	Pumping Related Migration (No Overall Trend)	14	2020	5.20	2024	0.24 J	2021	0.21 DL	2024	17	2020	5.50	2024	0.004 DL	NP	2023	0.004 DL	NP	2023	11 QD	2023	1.330	2024

Appendix E: Summary of Maximum Concentrations, Current Concentrations and T-C Plot Interpretations for WSTF Monitoring Well Network

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
PL-1-486 Conv	1988	Non Detect	190	1996	0.24 DL	2025	4.60	2004	0.21 DL	2025	180	2004	0.2 DL	2025	0.093	43	2005	0.004 DL	NP	2024	260 QD	2002	0.35 DL	2025
PL-2-504 Conv	1989	Pumping Related Migration (No Overall Trend)	230	1996	33	2024	2.50 RL	1996	0.77 J	2024	180	2004	46	2024	0.45 QD	58	2021	0.004 DL	NP	2024	300 G RB Q	2020	24.71	2024
ST-1-473 Conv	1989	Pumping Related Migration (Decreasing)	610	1996	150	2024	13	2010	6.70	2024	370	2005	160 D	2024	1.70	27	2009	0.489 0	47	2024	N/A		N/A	
ST-1-541 Conv	1992	Pumping Related Migration (Decreasing)	790	1995	140	2024	37	1995	5.60	2024	650	1995	130	2024	4.80 QD	37	2003	3.297 0	40	2024	N/A		N/A	
ST-1-630 Conv	1992	Pumping Related Migration (Decreasing)	410	2006	240 D	2024	19 QD	2007	10	2024	440	2000	270 D	2024	1.90	40	2019	0.461 0	52	2024	N/A		N/A	
ST-3-486	1991	Pumping Related Migration (Decreasing)	800	1996	4.50	2024	19	2003	0.25 J	2024	690	1991	8.20	2024	4.40	45	2011	0.034 0	58	2024	N/A		N/A	
ST-3-586 Conv	1992	Pumping Related Migration (Decreasing)	640 T TB Q	1996	0.42 J	2024	15	2007	0.21 DL	2024	320	2005	0.610 J	2024	3.80 QD	37	2003	0.004 DL	NP	2024	N/A		N/A	
ST-3-666 Conv	1992	Pumping Related Migration (Decreasing)	280	2009	2.1	2024	15	2009	0.230 J	2024	320	2009	4.5	2024	3.70	30	2006	0.004 0 DL	NP	2024	N/A		N/A	
ST-3-735 Conv	1992	Pumping Related Migration (Decreasing)	240	2005	8.60	2024	14	2007	0.32 J	2024	320	2005	15	2024	7.80 QD	32	2009	0.396 0	58	2024	N/A		N/A	

Plume Front Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
BLM-10-517 Conv	1988	Non Detect	5.00 RL	1988	0.24 DL	2025	2.50 RL	1996	0.21 DL	2025	4.40	2012	0.2 DL	2025	0.095 RL	NP	1988	0.004 DL	NP	2025	5.90	2020	0.35 DL	2025
BLM-7-509 Conv	1988	Fluctuating LL NDMA (<4.9 ng/L)	5.00 RL	1988	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.09 J	32	1996	0.004 DL	NP	2024	9.40 RB FB *	2023	0.97 A K RB	2024
PL-4-464 Conv	1990	Non Detect	28	2005	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	21	2005	0.2 DL	2045	0.05 RL	NP	1997	0.004 DL	NP	2045	2.70 RB FB	2005	0.35 DL	2045

Reporting Period: 1Q/2025

Appendix E: Summary of Maximum Concentrations, Current Concentrations and T-C Plot Interpretations for WSTF Monitoring Well Network

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
PL-6 Westbay	1992	Fluctuating LL NDMA (<4.9 ng/L)	4.10 J	1996	0.24 DL	2025	5.60	1996	0.21 DL	2025	4.90 J	1996	0.2 DL	2025	1.00	53	2025	0.004 DL	NP	2024	44	2023	0.34 DL	2025
PL-7 Westbay	1993	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	11 RB TB EB	2023	0.54E B	2024
ST-2-466 Conv	1989	Non Detect	2.50 RL	1995	0.24 DL	2024	2.50 RL	1995	0.21 DL	2024	2.50 RL	1995	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	2.60 RB	2004	2.6 RB	2004
ST-4-481 Conv	1992	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	1.80 FB	2012	0.88 A K RB	2024
ST-4-589 Conv	1992	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2023	1.10 RB Q	2008	0.34 DL	2024
ST-4-690 Conv	1992	Fluctuating LL NDMA (<4.9 ng/L)	3.00 J	1998	0.24 DL	2024	2.50 RL	1995	0.21 DL	2024	10	1998	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	2.70	2008	0.87	2024
ST-5 Westbay	1992	Fluctuating LL NDMA (<4.9 ng/L)	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	7.20	2017	0.48	2024
ST-5-481 Conv	1992	Non Detect	2.50 RL	1996	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.05 RL	NP	1997	0.004 DL	NP	2024	0.7 FB	2002	0.70 FB	2002
ST-6 FLUTe	1998	Fluctuating LL NDMA (<4.9 ng/L)	21 EB	2005	0.24 DL	2024	2.00 DL	1999	0.21 DL	2024	67	2004	0.27 J	2024	0.012	90	2017	0.005 DL	NP	2023	53 Q QD	2023	0.35 DL	2024
ST-7 FLUTe	1999	Pump Related Migration (Increasing)	4.20	2025	4.2	2025	0.62 DL	2004	0.21 DL	2025	5.8	2025	5.8	2025	0.005 DL	NP	2013	0.005 DL	NP	2023	3.80 FB	2002	0.64 K	2025
WW-1-452 Conv	1988	Non Detect	5.00 RL	1988	0.24 DL	2024	2.50 RL	1996	0.21 DL	2024	2.50 RL	1996	0.2 DL	2024	0.3 T	30	2006	0.005 DL	NP	2024	3.47 K TB FB	2024	.350 DL	2024

Sentinel Monitoring Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
600C-005-GW Conv	2024	New Well	0.24 DL	2024	0.24 DL	2024	0.21 DL	2024	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.004 DL	NP	2024	0.004 DL	NP	2024	N/A		N/A	
BLM-42-569 Conv	2020	Fluctuating LL NDMA (<4.9 ng/L)	0.24 DL	2024	0.24 DL	2024	0.21 DL	2024	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.004 DL	NP	2021	0.004 DL	NP	2023	1.60 RB * TB FB	2021	0.88A K RB FB	2024
BLM-42-709 Conv	2020	Fluctuating LL NDMA (<4.9 ng/L)	0.24 DL	2024	0.24 DL	2024	0.21 DL	2024	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.004 DL	NP	2023	0.004 DL	NP	2023	1.50 RB * FB	2021	0.87 A K RB FB	2024

Appendix E: Summary of Maximum Concentrations, Current Concentrations and T-C Plot Interpretations for WSTF Monitoring Well Network

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
JP-1-424 Conv	1988	Non Detect	5.50	2001	0.24 DL	2025	2.50 RL	1996	0.21 DL	2025	2.50 RL	1996	0.2 DL	2025	0.061 J	36	1998	0.004 DL	NP	2025	15 RB QD	2004	0.35 DL	2025
JP-2-447 Conv	1988	Non Detect	2.50 RL	1996	0.24 DL	2025	2.50 RL	1996	0.21 DL	2025	4.50	2001	0.2 DL	2025	0.05 RL	NP	1997	0.004 DL	NP	2023	14	2000	0.36 DL	2025
JP-3-509 Conv	2013	Non Detect	0.27 DL	2019	0.24 DL	2025	0.28 DL	2019	0.21 DL	2025	0.2 DL	2024	0.2 DL	2025	0.004 DL	NP	2017	0.004 DL	NP	2025	0.85 * TB	2021	0.34 DL	2025
JP-3-689 Conv	2014	Non Detect	0.27 DL	2019	0.24 DL	2025	0.28 DL	2019	0.21 DL	2025	0.2 DL	2024	0.2 DL	2025	0.005 DL	NP	2014	0.004 DL	NP	2025	1.80 TB FB	2021	0.34 DL	2025
PL-10 Westbay	2002	Fluctuating LL NDMA (<4.9 ng/L)	1.60 DL	2003	0.24 DL	2025	0.62 DL	2004	0.21 DL	2025	0.62 DL	2004	0.2 DL	2025	0.005 DL	NP	2021	0.004 DL	NP	2023	7.3 EB	2024	3.8 RB	2025
PL-11 FLUTe	2017	Fluctuating LL NDMA (<4.9 ng/L)	0.46 J	2024	0.24 DL	2024	0.28 DL	2018	0.21 DL	2024	0.36 J	2024	0.2 DL	2024	0.005 DL	NP	2023	0.005 DL	NP	2023	58 *	2023	1.7	2024
PL-8 Westbay	2000	Non Detect	1.60 DL	2002	0.24 DL	2024	0.62 DL	2004	0.21 DL	2024	0.7 DL	2003	0.2 DL	2024	0.021	47	2023	0.004 DL	NP	2024	12FB	2002	0.360 DL	2024
WW-2-489 Conv	2013	Non Detect	0.27 DL	2018	0.24 DL	2024	0.28 DL	2018	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.005 DL	NP	2014	0.004 DL	NP	2023	4.34 K FB	2024	.340 DL	2024
WW-2-664 Conv	2013	Non Detect	0.27 DL	2018	0.24 DL	2024	0.28 DL	2018	0.21 DL	2024	0.2 DL	2024	0.2 DL	2024	0.005 DL	NP	2014	0.004 DL	NP	2023	2.32 K FB	2024	0.35 DL	2024
WW-3 Westbay	2001	Fluctuating LL NDMA (<4.9 ng/L)	1.60 DL	2002	0.24 DL	2024	0.62 DL	2004	0.21 DL	2024	0.7 DL	2003	0.2 DL	2024	0.012 J	40	2004	0.004 DL	NP	2024	95 RB *	2007	0.95	2024
WW-4 FLUTe	2001	Fluctuating LL NDMA (<4.9 ng/L)	1.60 DL	2002	0.24 DL	2024	0.62 DL	2004	0.21 DL	2024	0.7 DL	2003	0.2 DL	2024	0.005 DL	NP	2016	0.004 DL	NP	2024	35	2016	3.40	2024
WW-5 FLUTe	2001	Fluctuating LL NDMA (<4.9 ng/L)	1.60 DL	2003	0.24 DL	2025	0.62 DL	2004	0.21 DL	2025	0.62 DL	2004	0.2 DL	2025	0.005 DL	NP	2016	0.004 DL	NP	2024	24	2024	3.2 A	2025

Other Well Group

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
MPE-1 Conv*	1999	Pumping Related Migration (Decreasing)	560	2005	91	2024	8.70	2010	3.6	2024	180	2010	70	2024	25	30	2009	5.346	52	2024	N/A		N/A	
MPE-10 Conv*	2004	Pumping Related Migration (Decreasing)	150	2017	73	2024	3.50	2022	2.3	2024	71	2022	52	2024	8.50	40	2021	4.5	52	2024	N/A		N/A	

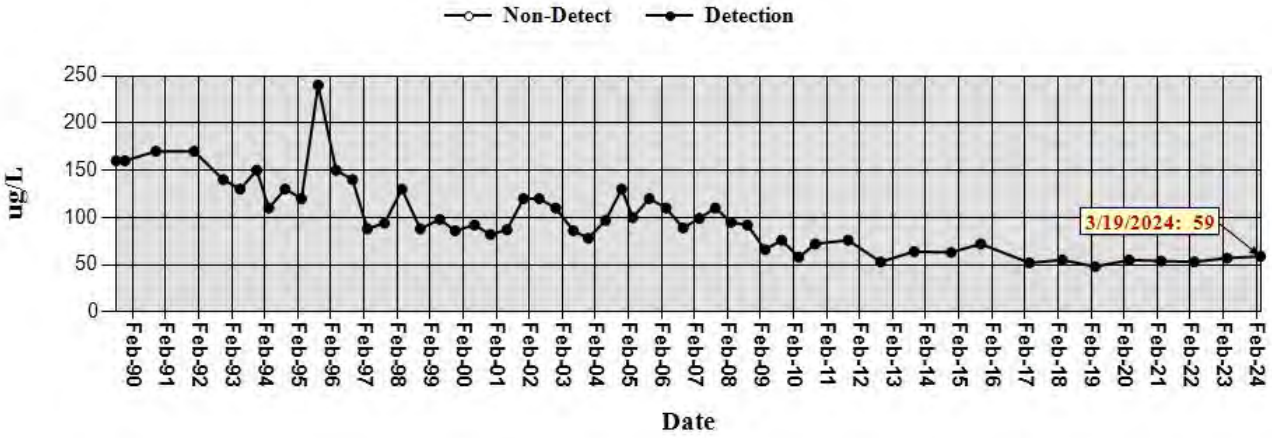
Appendix E: Summary of Maximum Concentrations, Current Concentrations and T-C Plot Interpretations for WSTF Monitoring Well Network

Well	1st Sample	Interpretation	Freon 11 Concentration (ug/L)				PCE Concentration (ug/L)				TCE Concentration (ug/L)				NDMA 607 Concentration (ug/L)						NDMA LL Concentration (ng/L)			
			Max	Year	Last	Year	Max	Year	Last	Year	Max	Year	Last	Year	Max	Ex Eff	Year	Last	Ex Eff	Year	Max	Year	Last	Year
MPE-11 Conv*	2004	Pumping Related Migration (No Overall Trend)	65	2008	8.6	2024	1.60	2008	0.21 DL	2024	41	2008	4.9	2024	1.60	40	2007	0.326	52	2024	N/A		N/A	
MPE-8 Conv*	2003	Pumping Related Migration (No Overall Trend)	200	2020	78	2022	4.20	2021	2.70	2022	88	2021	61	2022	6.50	40	2021	4.782	46	2022	N/A		N/A	
MPE-9 Conv*	2004	Pumping Related Migration (No Overall Trend)	250	2015	110	2024	5.60	2018	3.3	2024	130	2018	76	2024	13	35	2019	5.07	52	2024	N/A		N/A	
PFE-1 Conv*	2000	Pumping Related Migration (Decreasing)	110	2010	4.1	2025	4.80	2010	0.21 DL	2025	140	2005	7.3	2025	0.39	36	2017	0.142	35	2025	N/A		N/A	
PFE-2 Conv*	2000	Pumping Related Migration (No Overall Trend)	170	2007	59	2025	7.60	2007	2.8	2025	220	2007	71	2025	0.44	50	2024	0.342	35	2025	N/A		N/A	
PFE-3 Conv*	1991	Pumping Related Migration (Decreasing)	290	2006	27	202	18	2004	1.5	2025	340	2004	34	2025	3.90	18	1991	0.2	40	2025	N/A		N/A	
PFE-4A Conv*	2001	Pumping Related Migration (Decreasing)	190	2004	1.4	2025	8.40	2007	0.21 DL	2025	240	2004	2.0	2025	0.26	36	2010	0.004 0	NP	2025	N/A		20.44	2025
²PFE-5	2000	Pumping Related Migration (Decreasing)	120	2009	9.8	2025	7.70	2006	01.5	2025	180	2009	36	2025	2.40	33	2006	0.45	44	2025	N/A		N/A	
PFE-7 Conv*	2001	Pumping Related Migration (Decreasing)	32	2004	2.5	2025	0.81 J	2004	0.21 DL	2025	41	2004	4.4	2025	0.022	44	2004	0.004 DL	NP	2025	N/A		1.99	2025

Notes:
T-C plot interpretations are based on a review of all T-C plots for a given well. This table generalizes the historical maximum concentration and last concentrations for four of the primary VOCs in groundwater. Evaluation of the data in this table should be used in conjunction with T-C plots as the maximum and current values do not always accurately represent the overall T-C plot trend.
NDMA analytical results using two methods: 1) Method 607 (ug/L), extraction efficiency provided, the applicable detection limit is typically 0.004 to 0.005 ug/L; and 2) Low Level (ng/L), the applicable detection limit is 0.22 to 0.23 ng/L.
For wells with several maximum concentrations with the same value (typically the detection limit), the latest sampling event for which the detection limit applied was used for the sample year.
DL = Maximum detection limit and most recent year they were used are reported in the table. Detection limits can change over time, typically decreasing as analytical techniques improve.
EB = Detected in equipment blank
FB = Detected in field blank
J = Concentration values between the detection limit and practical quantitation limit.
NP = NDMA Method 607 extraction efficiency not provided where the analytical result is non-detect (eg, 0.004DL or 0.05RL)
QD = duplicate error
RL = Concentration presents half of the reporting limit. The maximum reporting limits and most recent year it was used are reported in the table. Reporting limits can change over time, typically decreasing as analytical techniques improve.
TB = Detected in trip blank

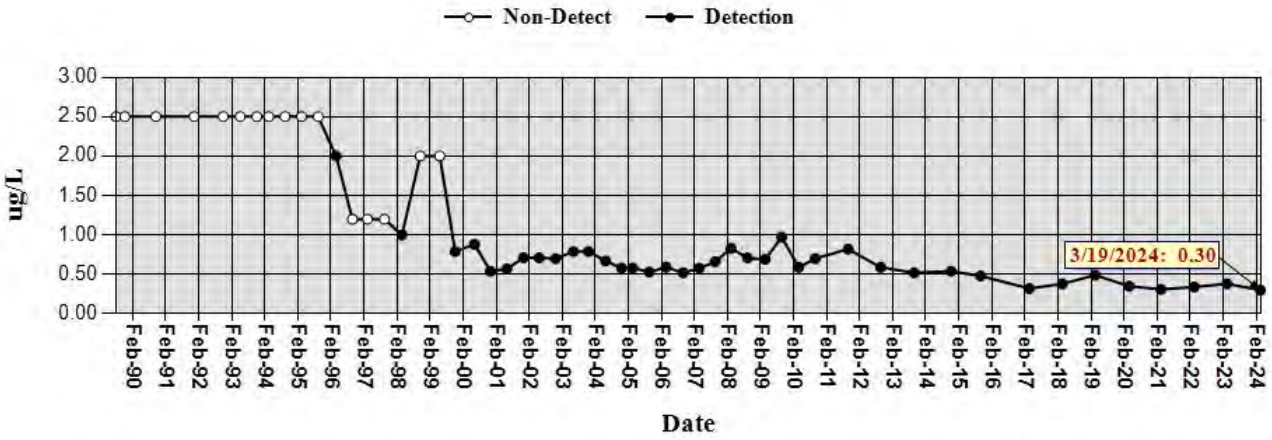
Well ID: 200-D-240
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



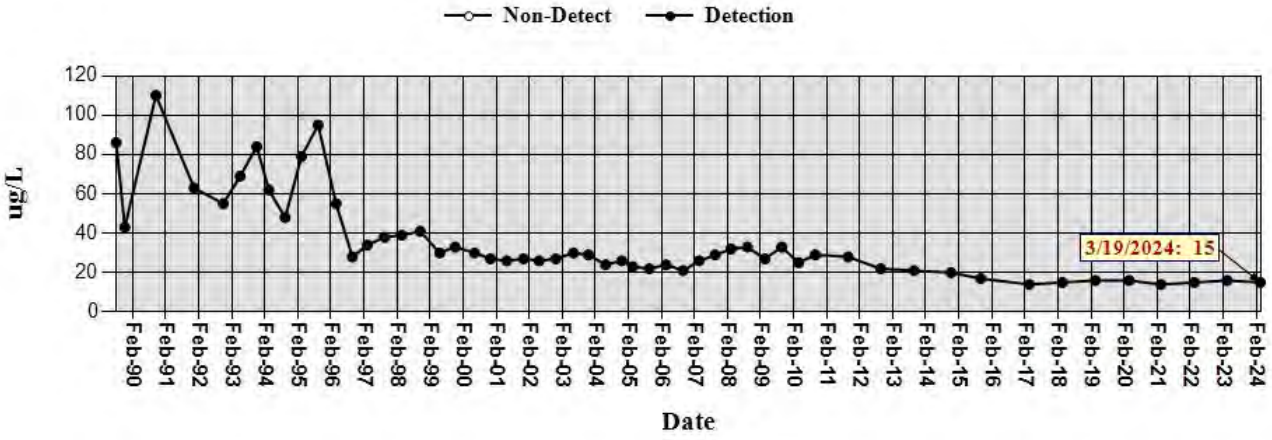
Well ID: 200-D-240
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: 200-D-240
CAS RN: 79-01-6 Trichloroethene

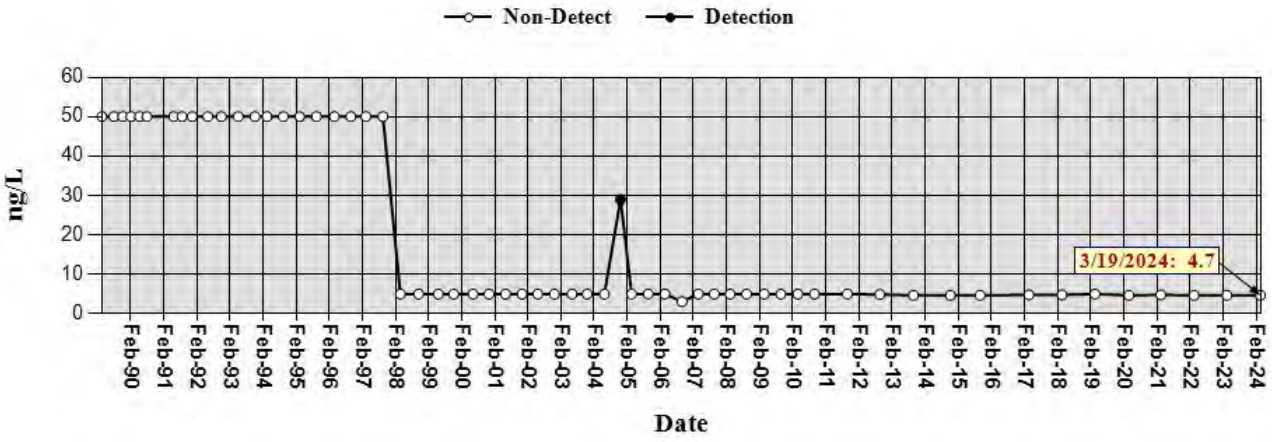
Analysis: 8260



Well ID: 200-D-240
CAS RN: 62-75-9 N-Nitrosodimethylamine

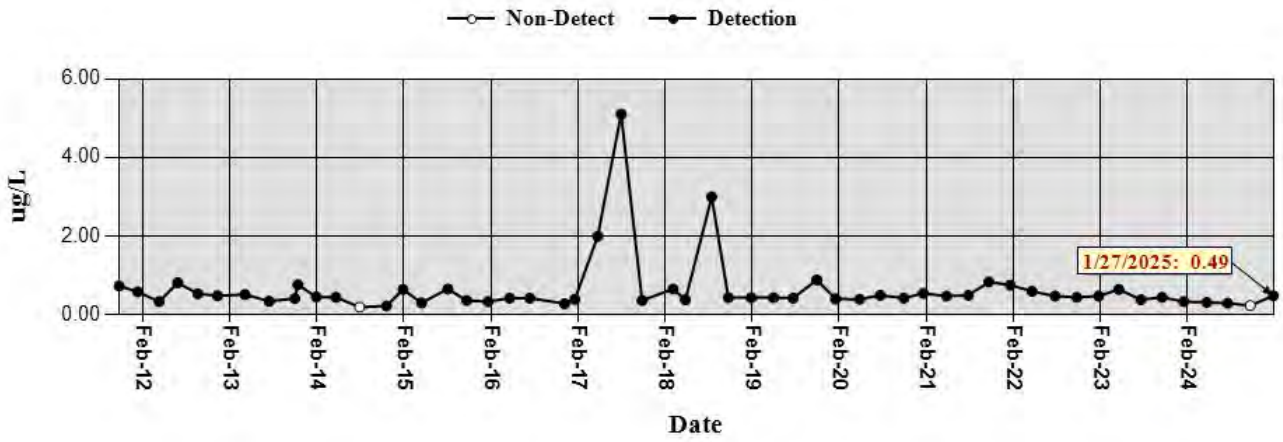
Analysis: 607

Results are Corrected for Extraction Efficiency



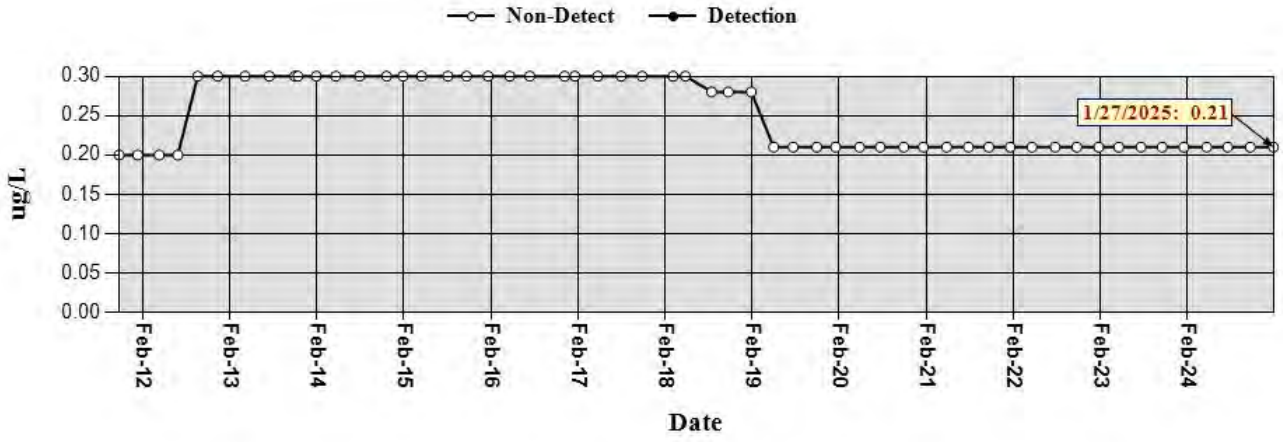
Well ID: 600-G-138
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



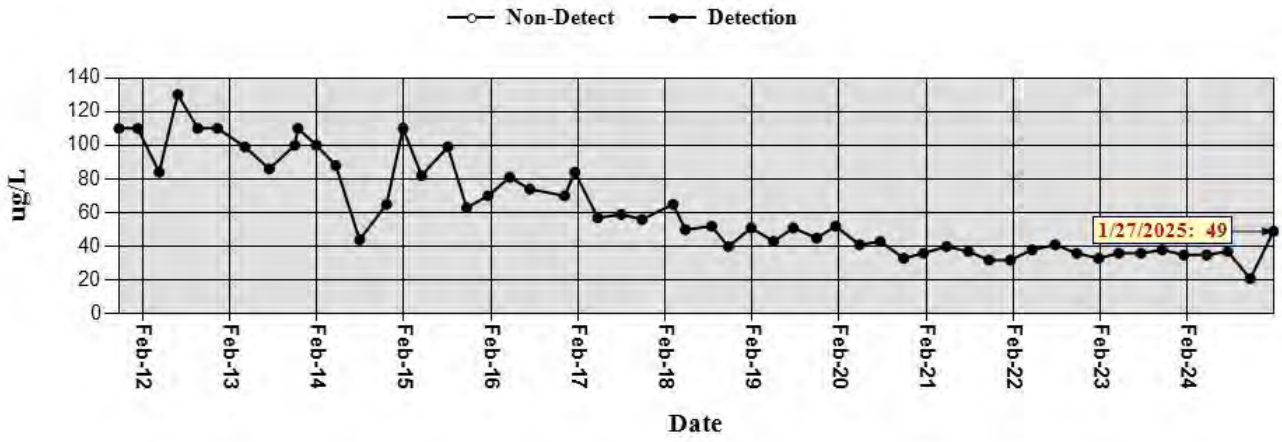
Well ID: 600-G-138
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



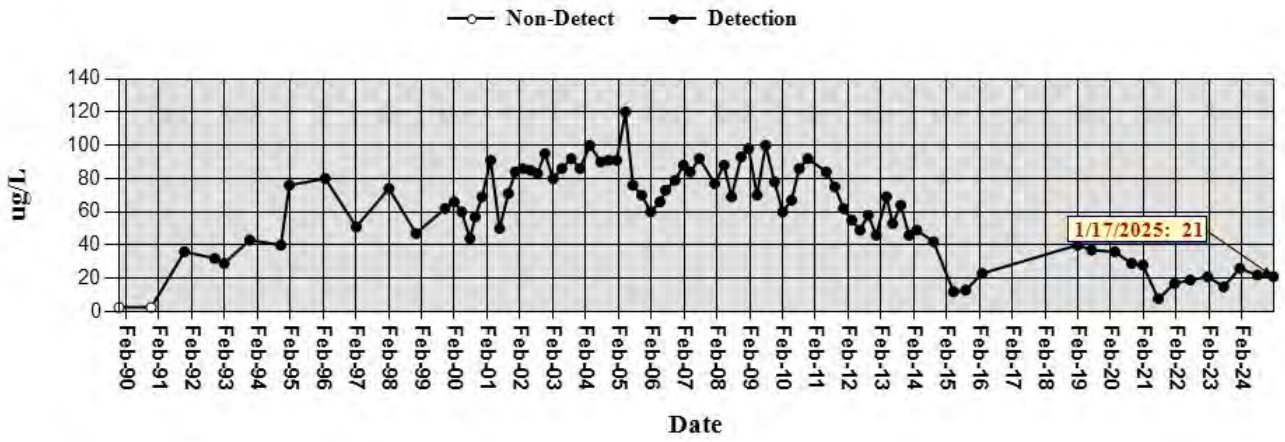
Well ID: 600-G-138
CAS RN: 79-01-6 Trichloroethene

Analysis: 8260



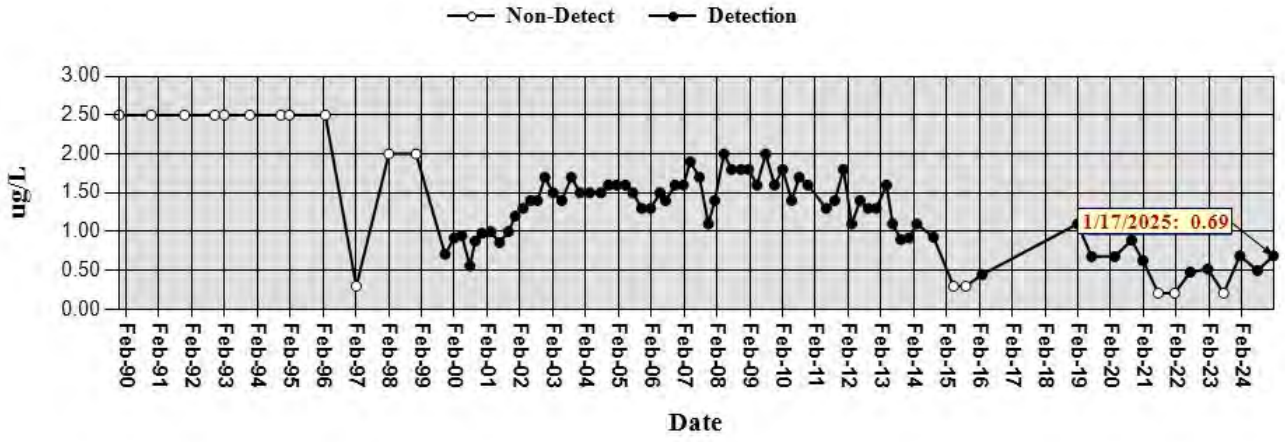
Well ID: BLM-18-430
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



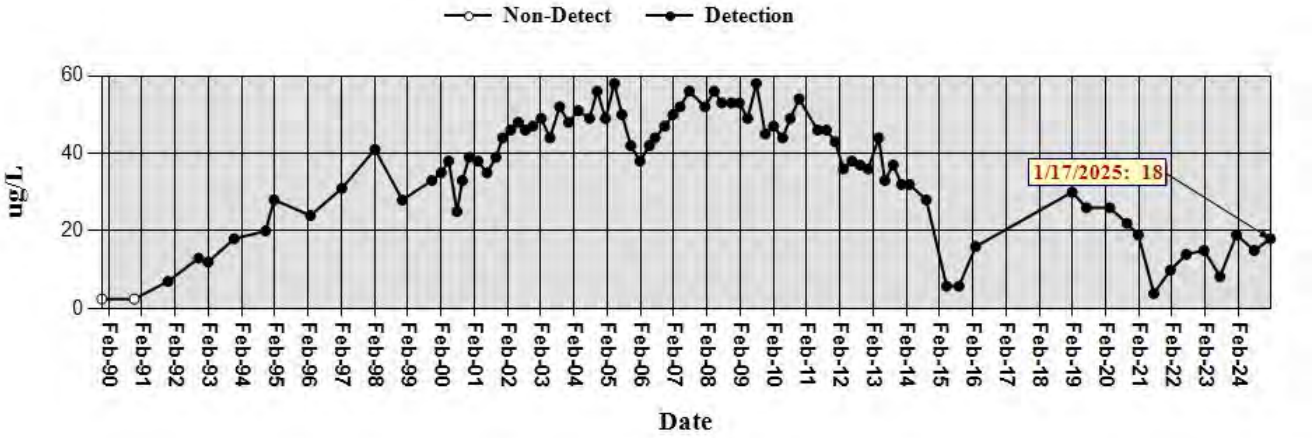
Well ID: BLM-18-430
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: BLM-18-430
CAS RN: 79-01-6 Trichloroethene

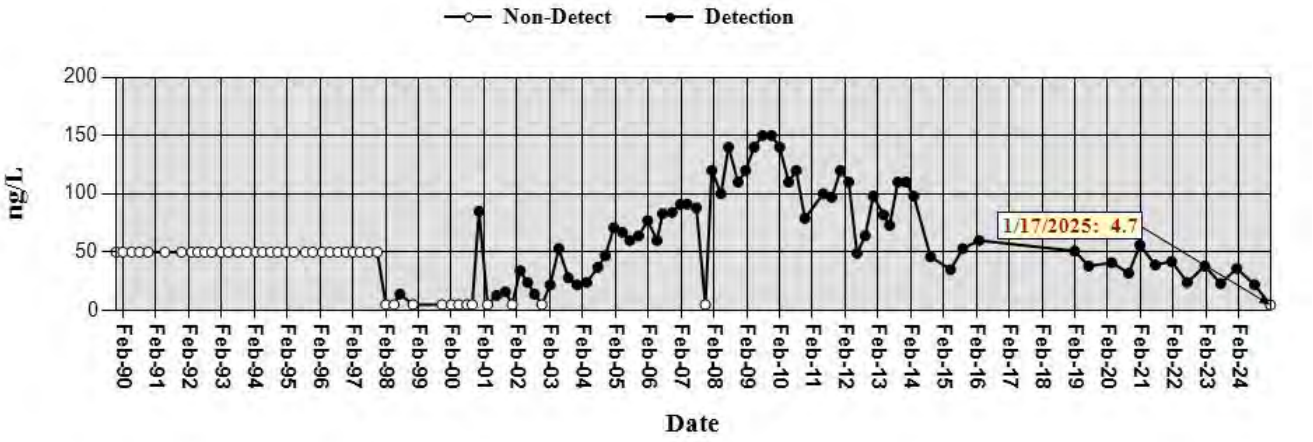
Analysis: 8260



Well ID: BLM-18-430
CAS RN: 62-75-9 N-Nitrosodimethylamine

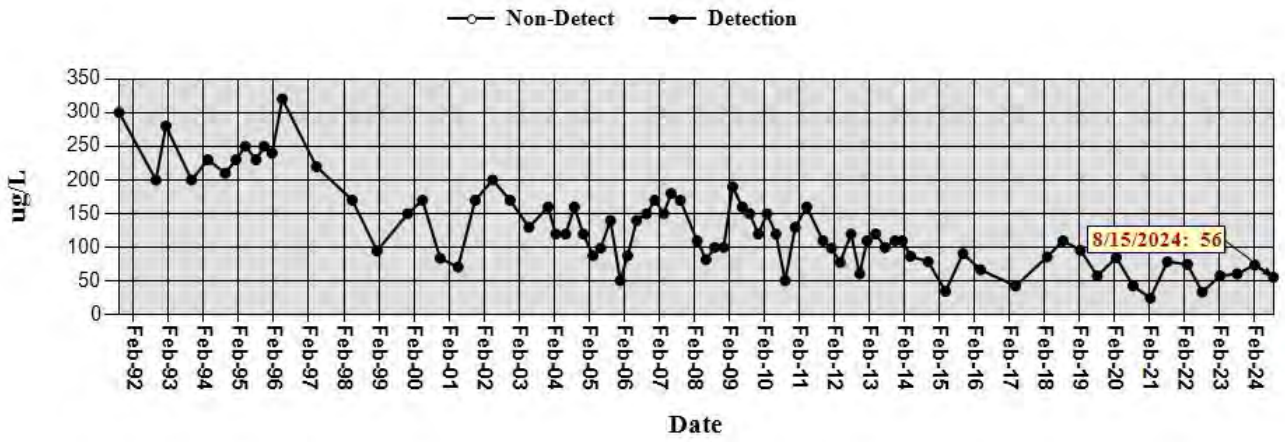
Analysis: 607

Results are Corrected for Extraction Efficiency



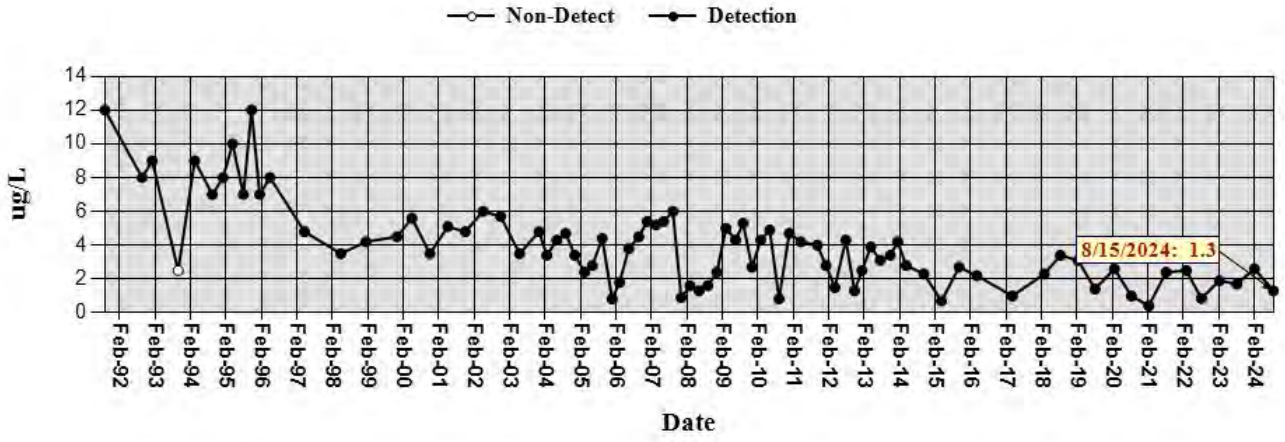
Well ID: BLM-21-400
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



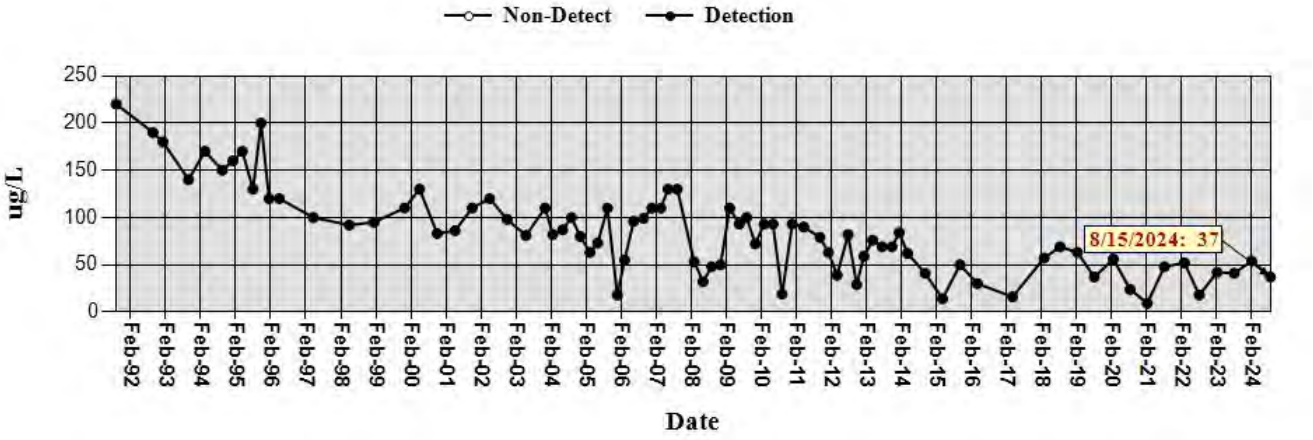
Well ID: BLM-21-400
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: BLM-21-400
CAS RN: 79-01-6 Trichloroethene

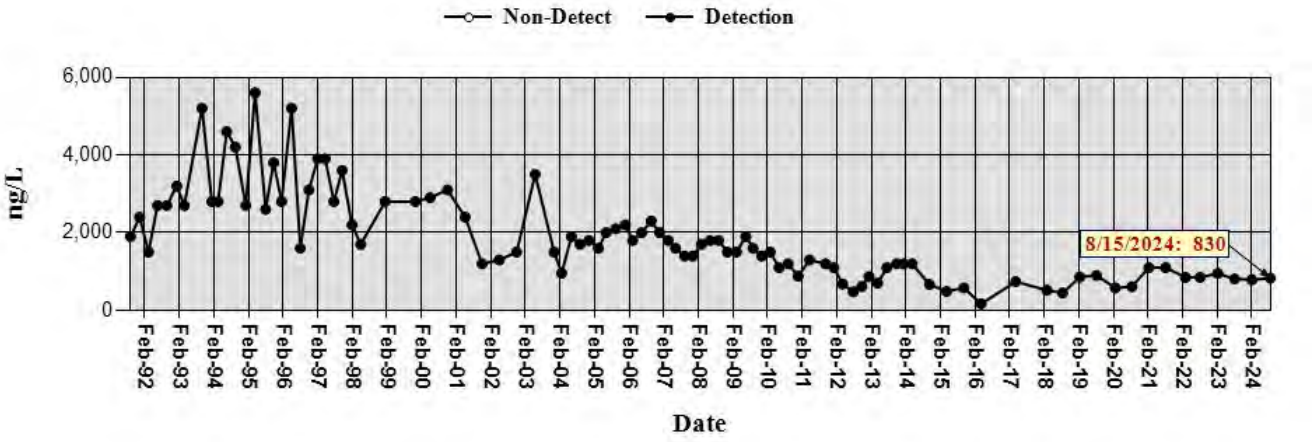
Analysis: 8260



Well ID: BLM-21-400
CAS RN: 62-75-9 N-Nitrosodimethylamine

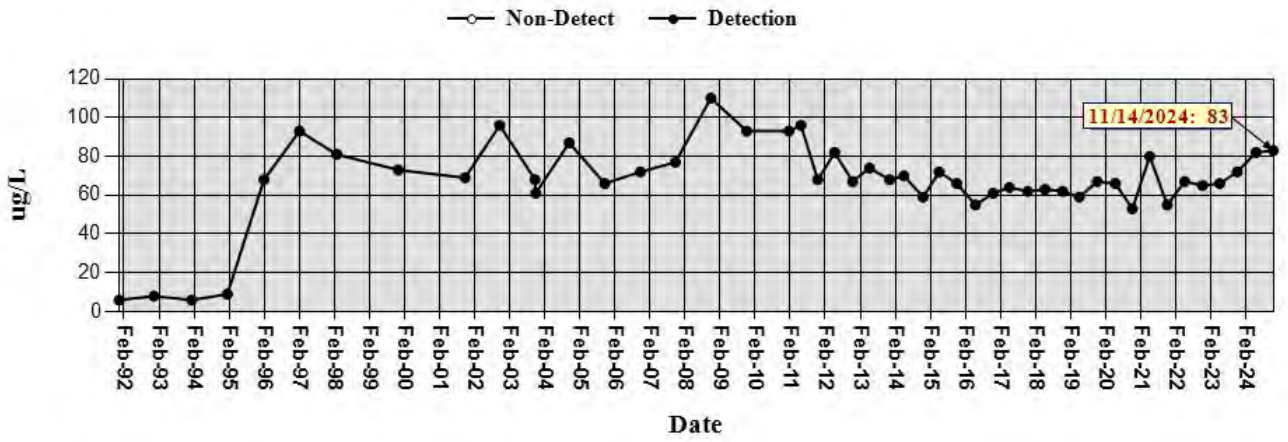
Analysis: 607

Results are Corrected for Extraction Efficiency



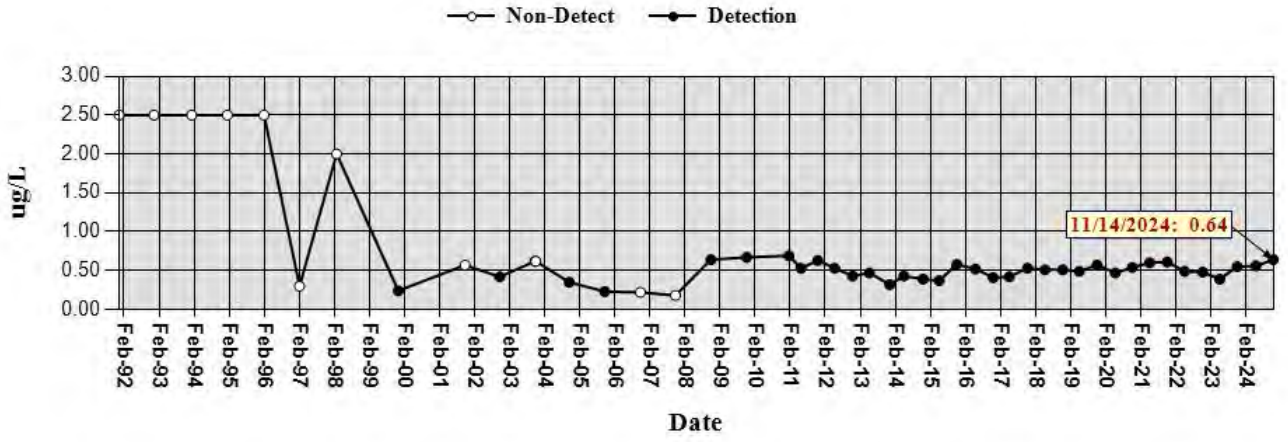
Well ID: BLM-26-404
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



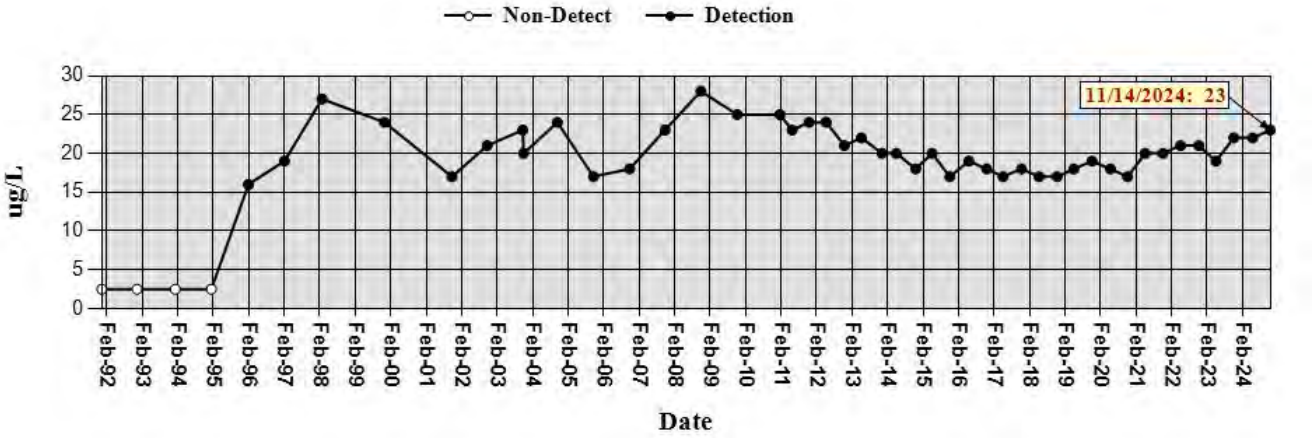
Well ID: BLM-26-404
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: BLM-26-404
CAS RN: 79-01-6 Trichloroethene

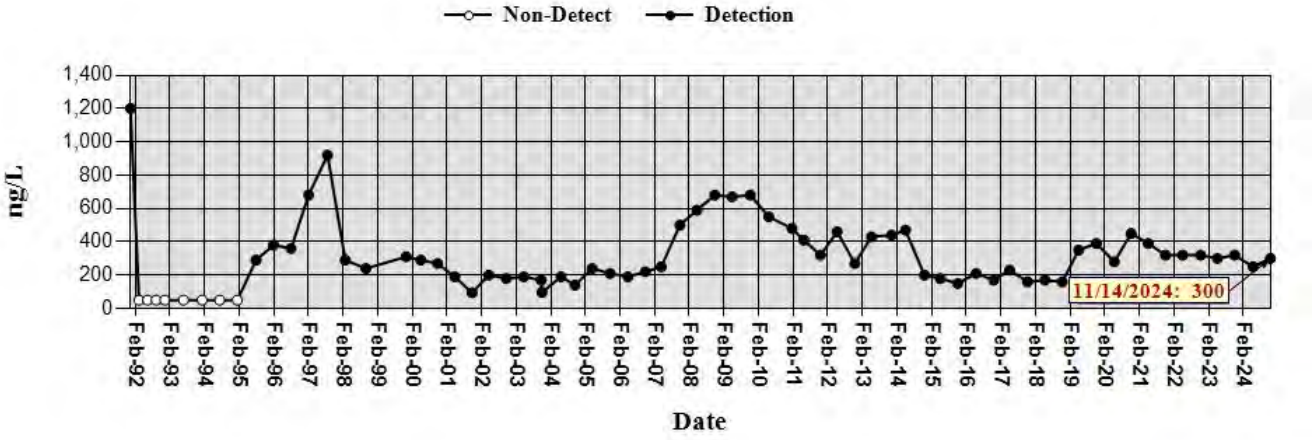
Analysis: 8260



Well ID: BLM-26-404
CAS RN: 62-75-9 N-Nitrosodimethylamine

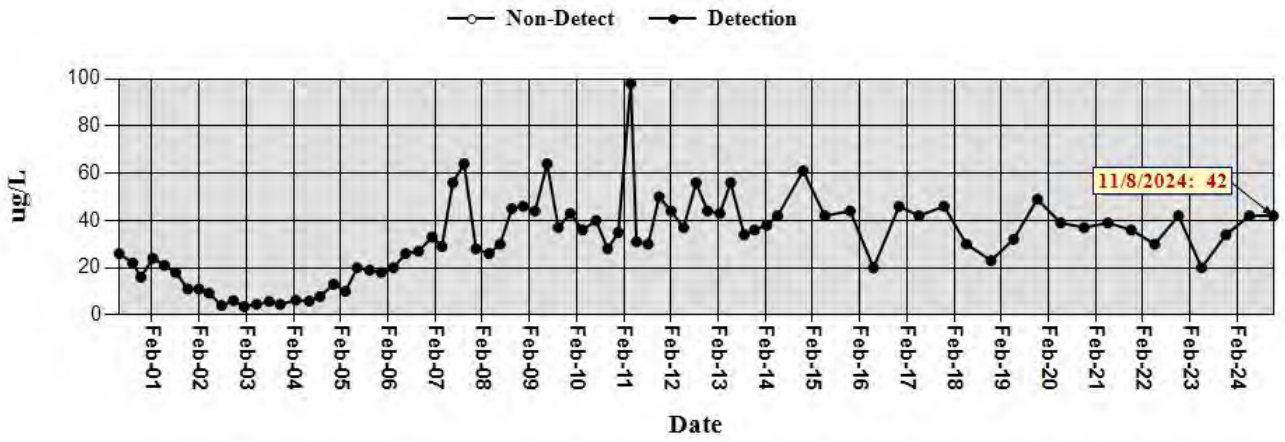
Analysis: 607

Results are Corrected for Extraction Efficiency



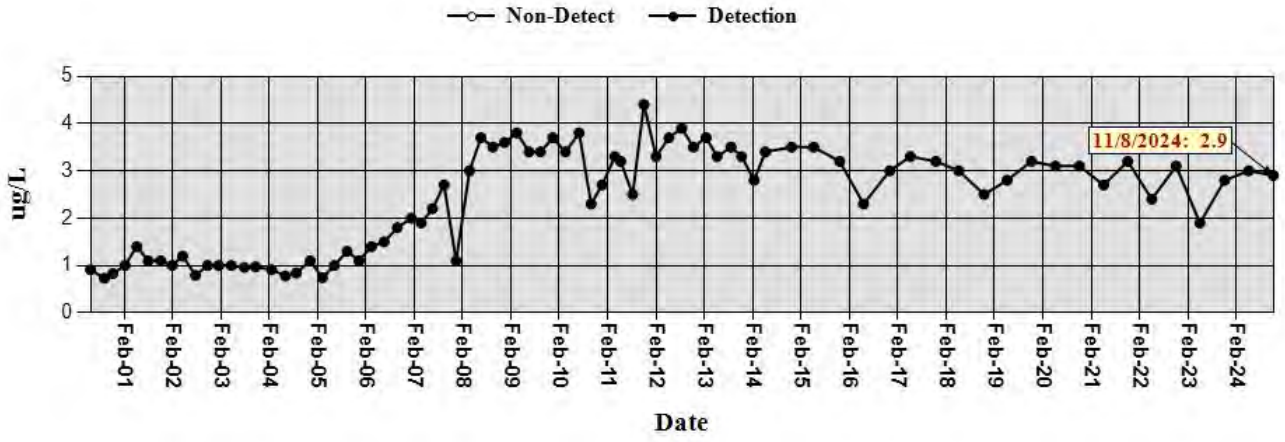
Well ID: BLM-36-350
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



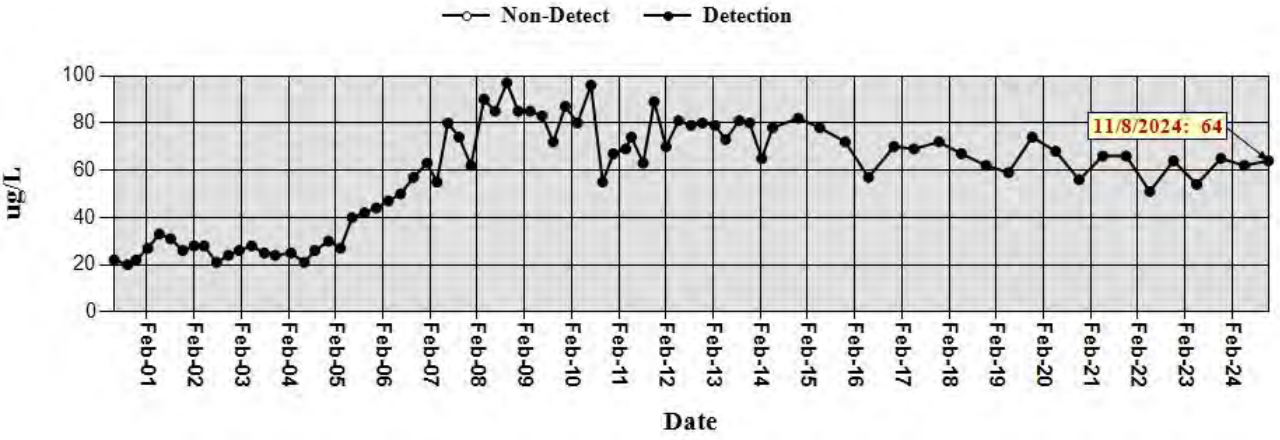
Well ID: BLM-36-350
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: BLM-36-350
CAS RN: 79-01-6 Trichloroethene

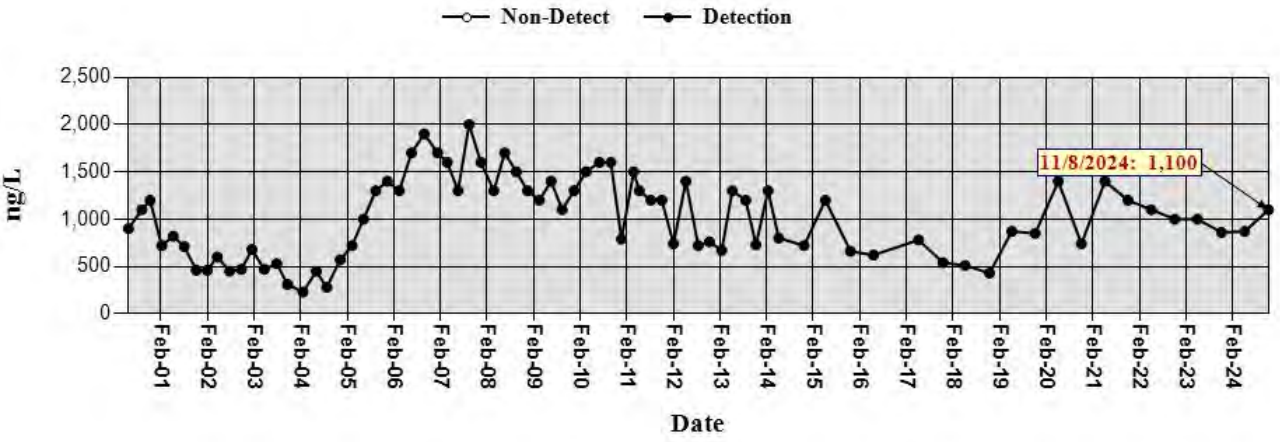
Analysis: 8260



Well ID: BLM-36-350
CAS RN: 62-75-9 N-Nitrosodimethylamine

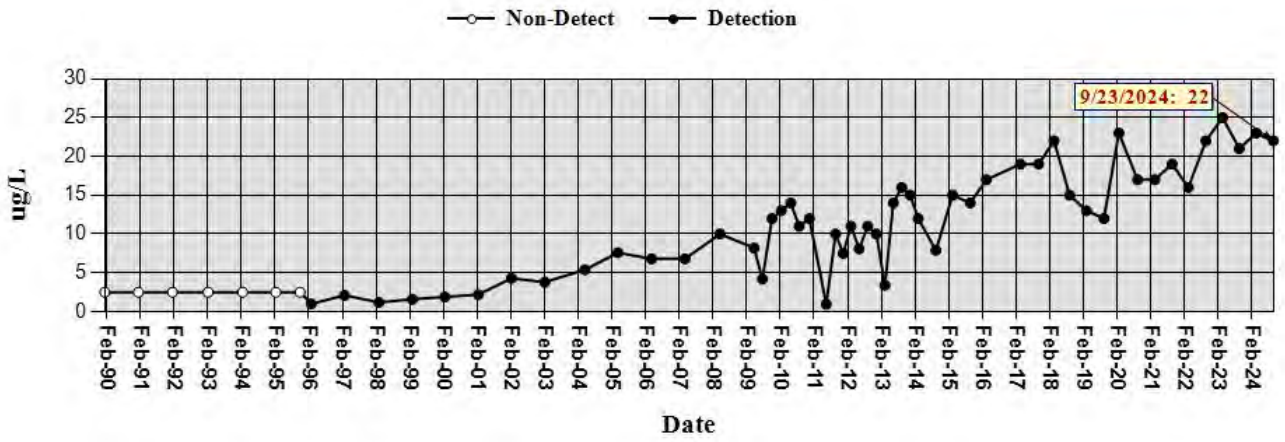
Analysis: 607

Results are Corrected for Extraction Efficiency



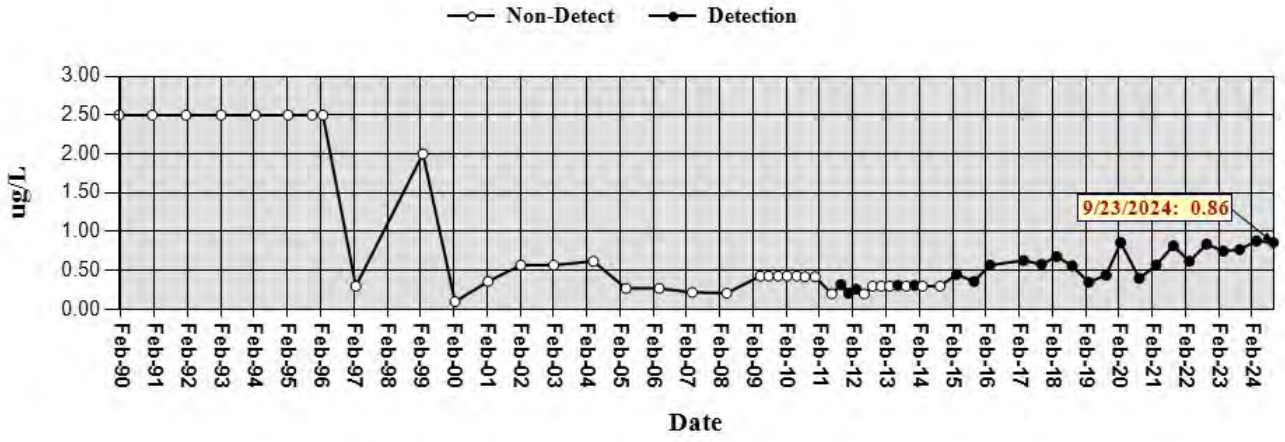
Well ID: BLM-5-527
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



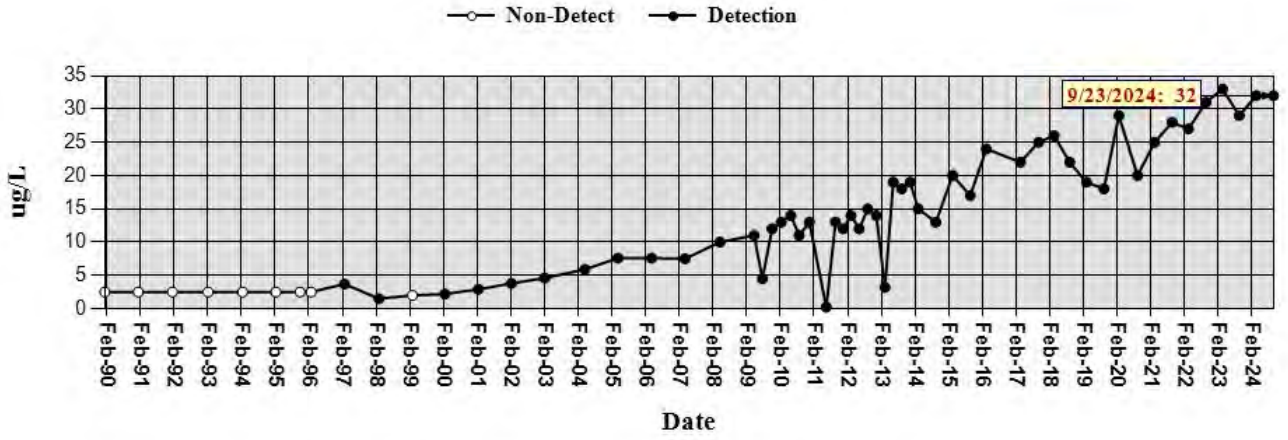
Well ID: BLM-5-527
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



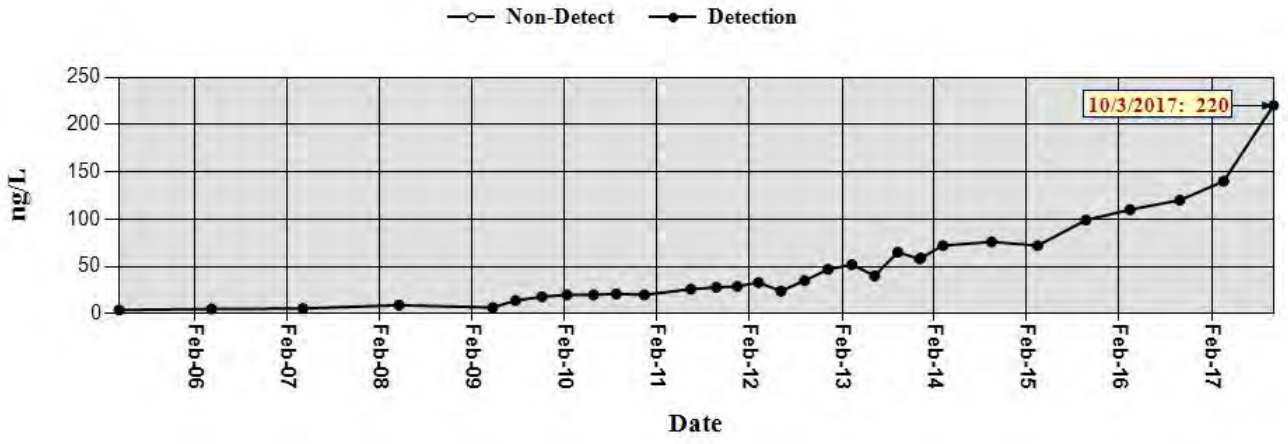
Well ID: BLM-5-527
CAS RN: 79-01-6 Trichloroethene

Analysis: 8260



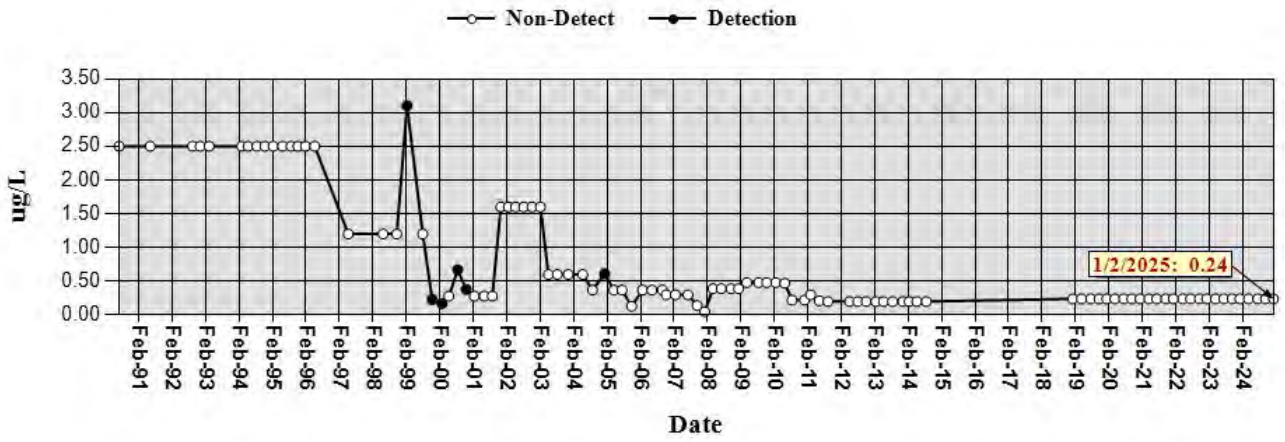
Well ID: BLM-5-527
CAS RN: 62-75-9 N-Nitrosodimethylamine

Analysis: NDMA_LL



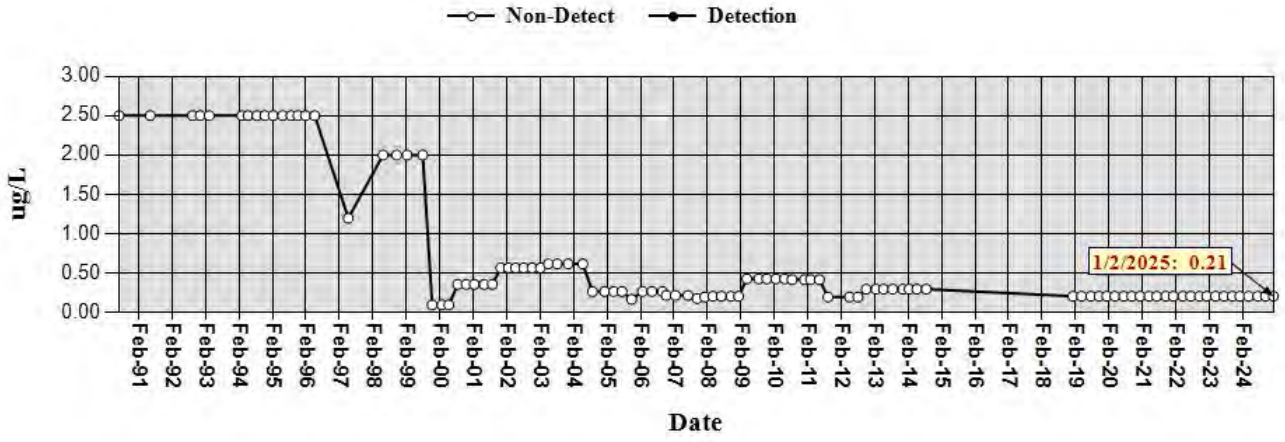
Well ID: BLM-6-488
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



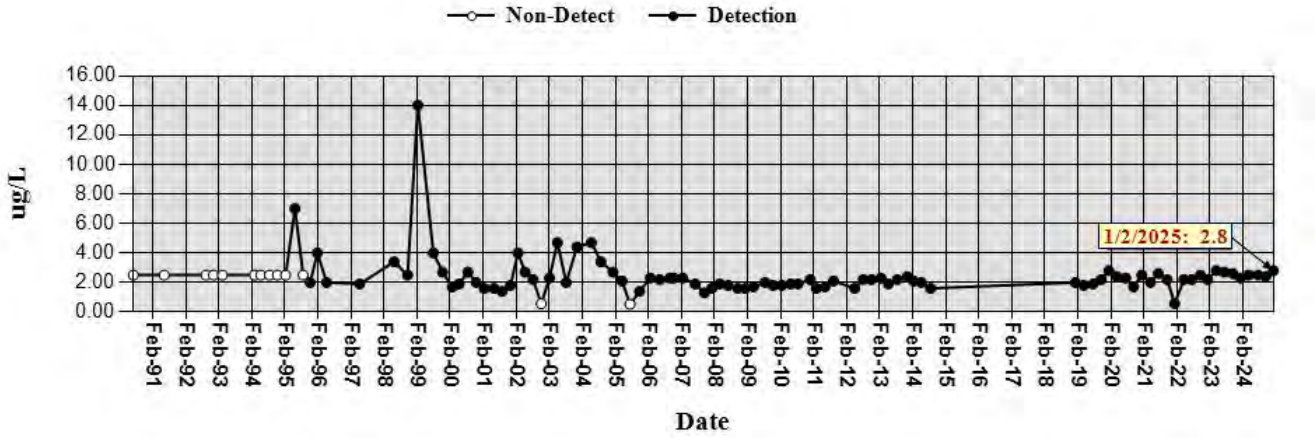
Well ID: BLM-6-488
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



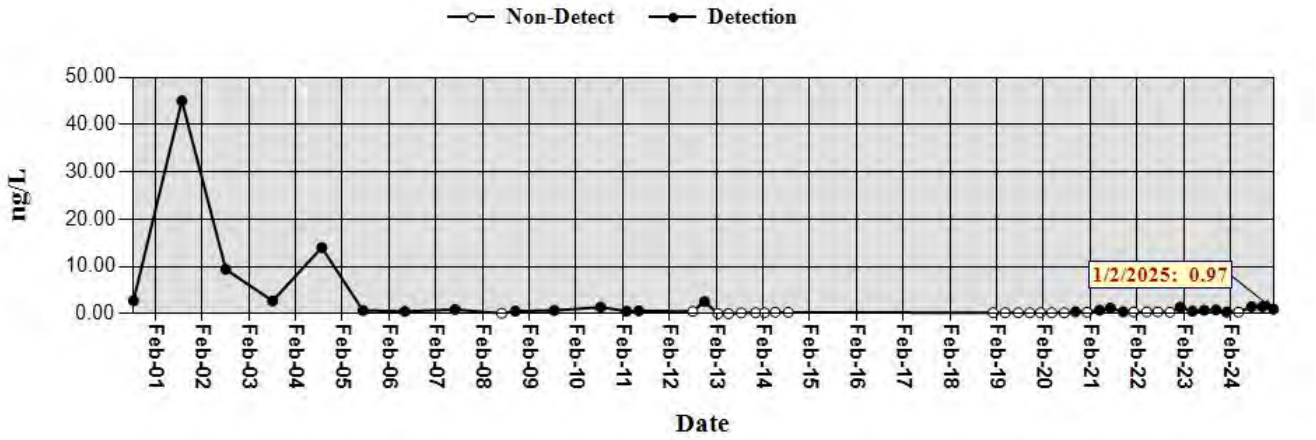
Well ID: BLM-6-488
CAS RN: 79-01-6 Trichloroethene

Analysis: 8260



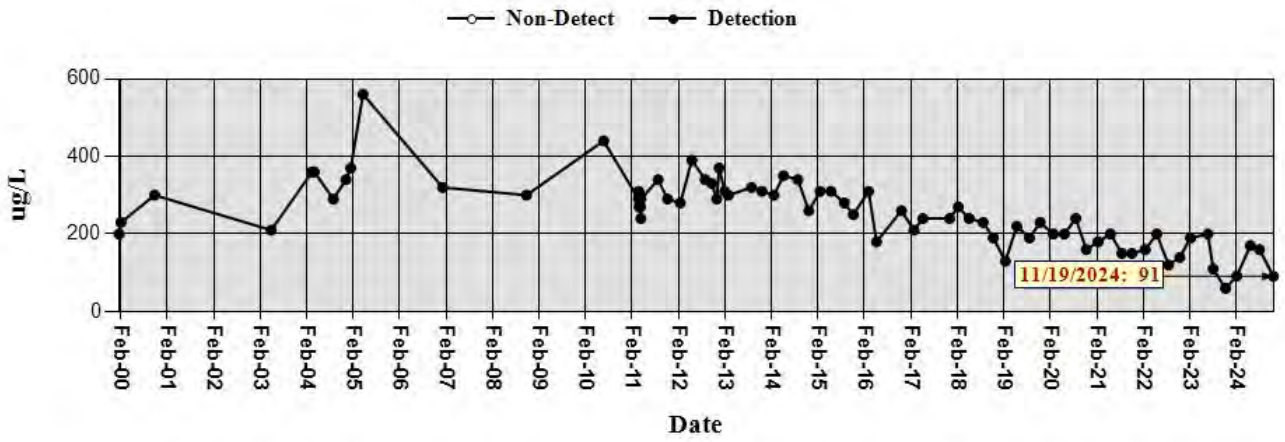
Well ID: BLM-6-488
CAS RN: 62-75-9 N-Nitrosodimethylamine

Analysis: NDMA_LL



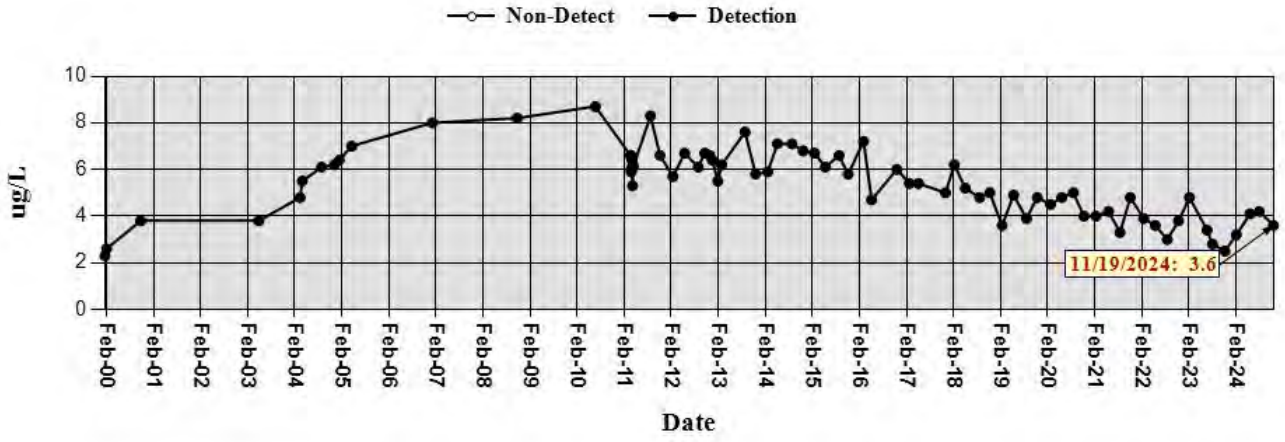
Well ID: MPE-1
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



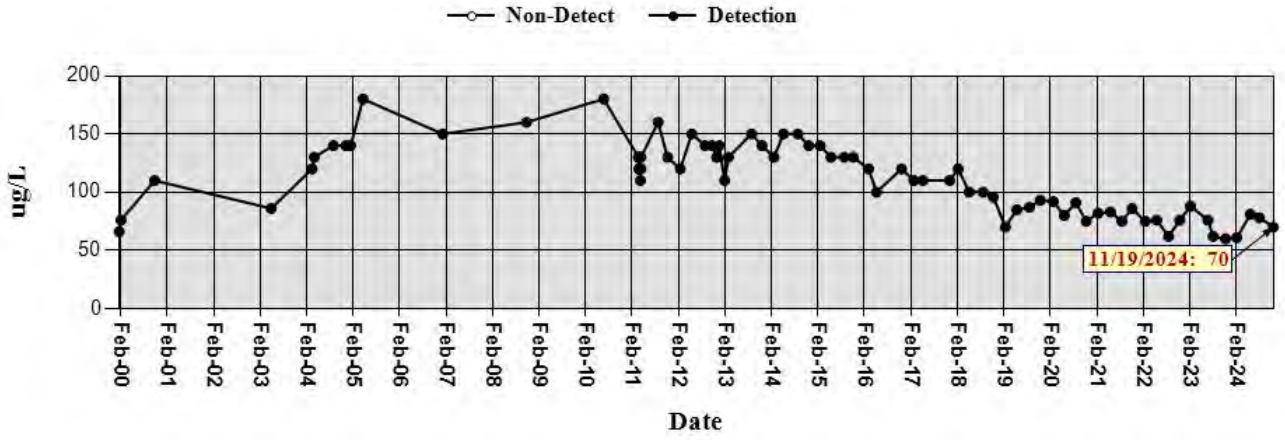
Well ID: MPE-1
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: MPE-1
CAS RN: 79-01-6 Trichloroethene

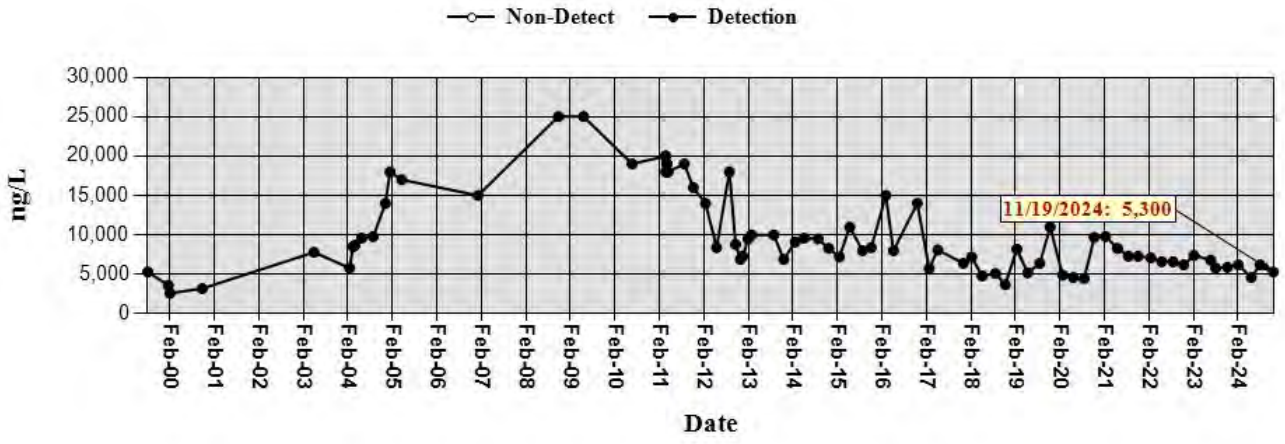
Analysis: 8260



Well ID: MPE-1
CAS RN: 62-75-9 N-Nitrosodimethylamine

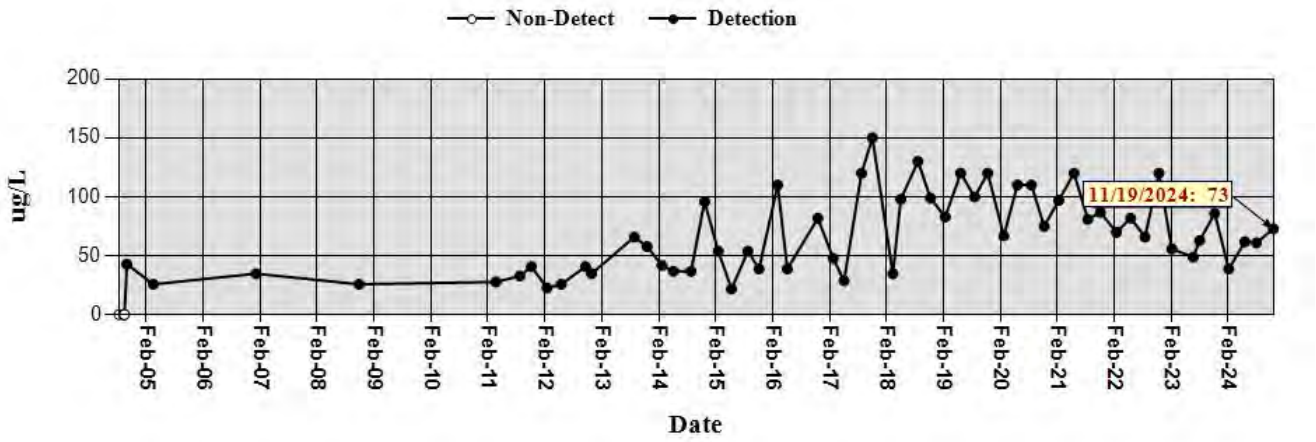
Analysis: 607

Results are Corrected for Extraction Efficiency



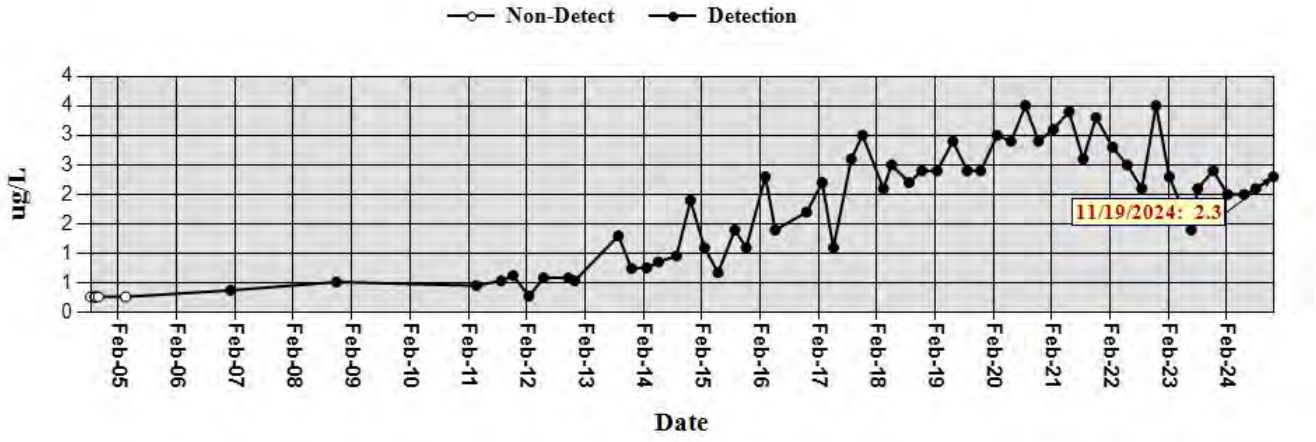
Well ID: MPE-10
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



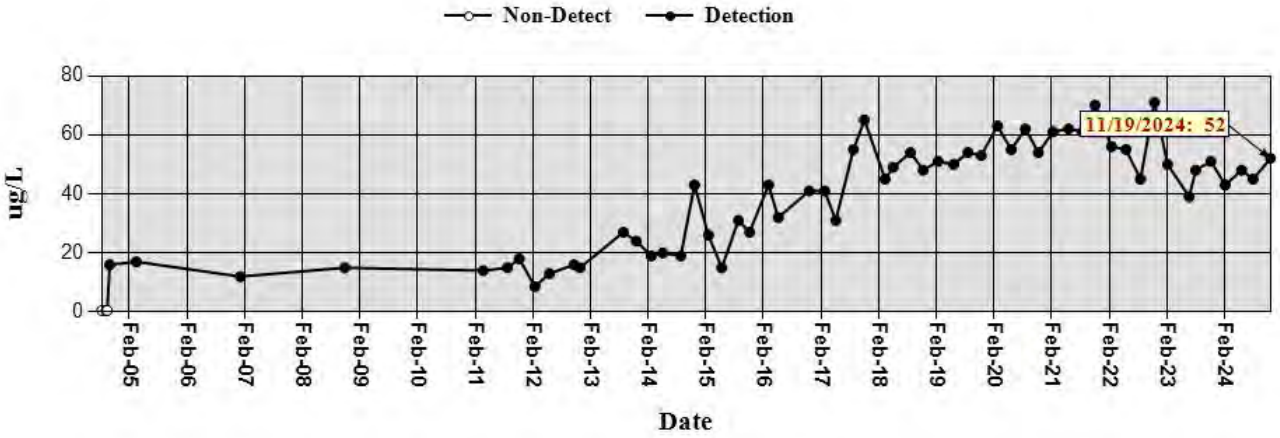
Well ID: MPE-10
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: MPE-10
CAS RN: 79-01-6 Trichloroethene

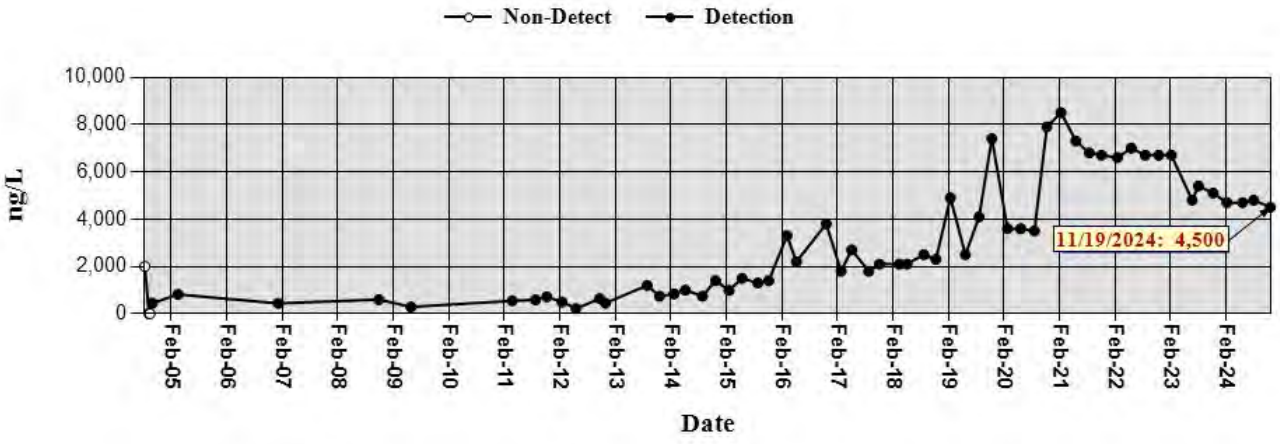
Analysis: 8260



Well ID: MPE-10
CAS RN: 62-75-9 N-Nitrosodimethylamine

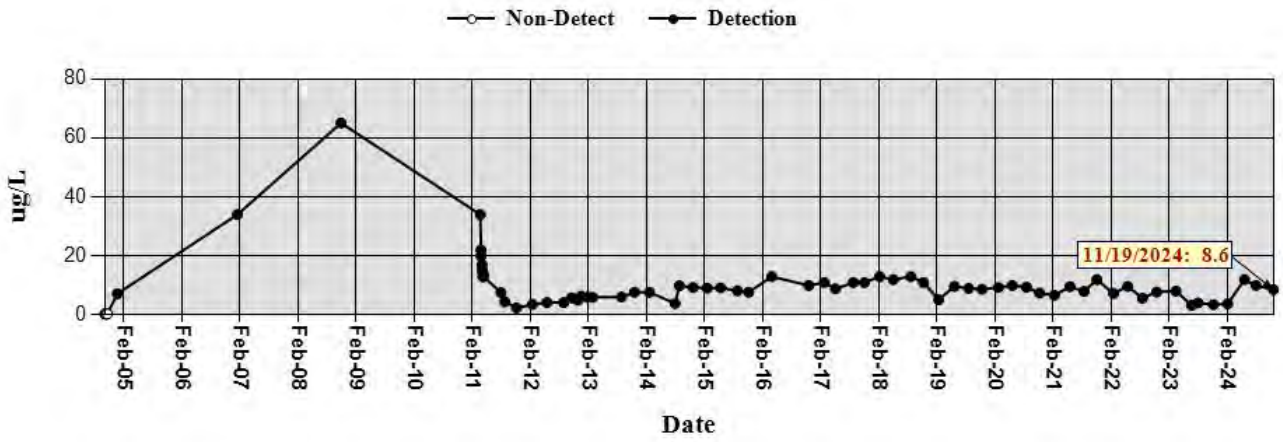
Analysis: 607

Results are Corrected for Extraction Efficiency



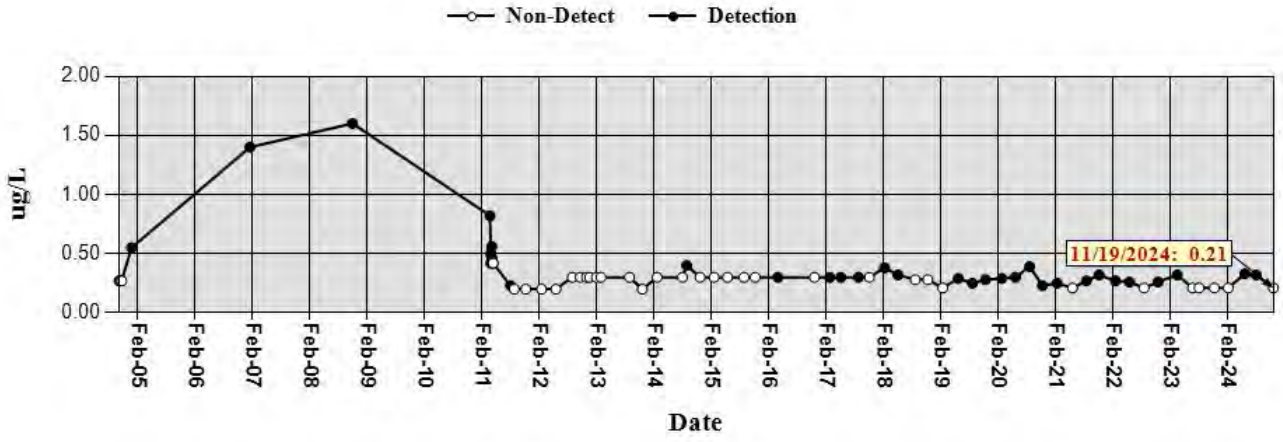
Well ID: MPE-11
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



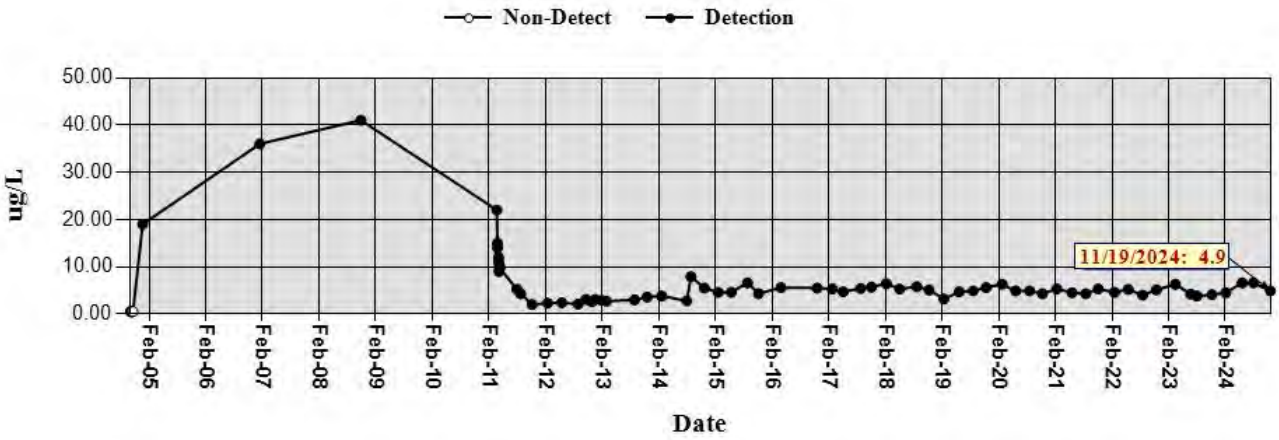
Well ID: MPE-11
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: MPE-11
CAS RN: 79-01-6 Trichloroethene

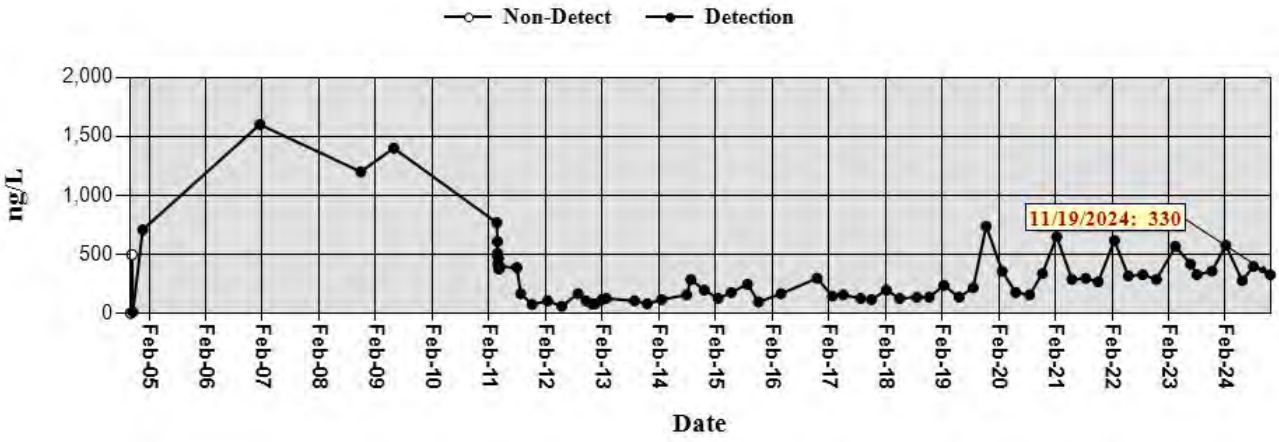
Analysis: 8260



Well ID: MPE-11
CAS RN: 62-75-9 N-Nitrosodimethylamine

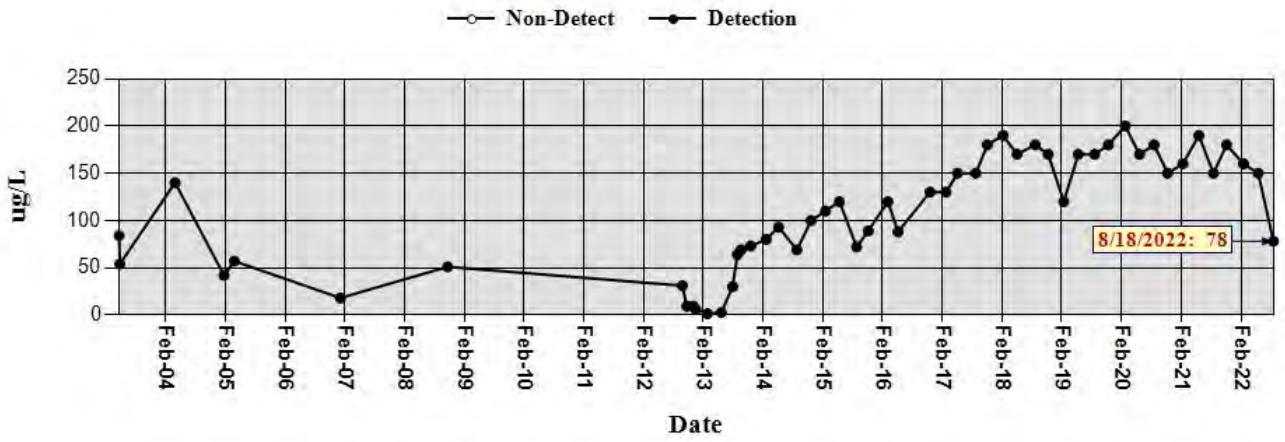
Analysis: 607

Results are Corrected for Extraction Efficiency



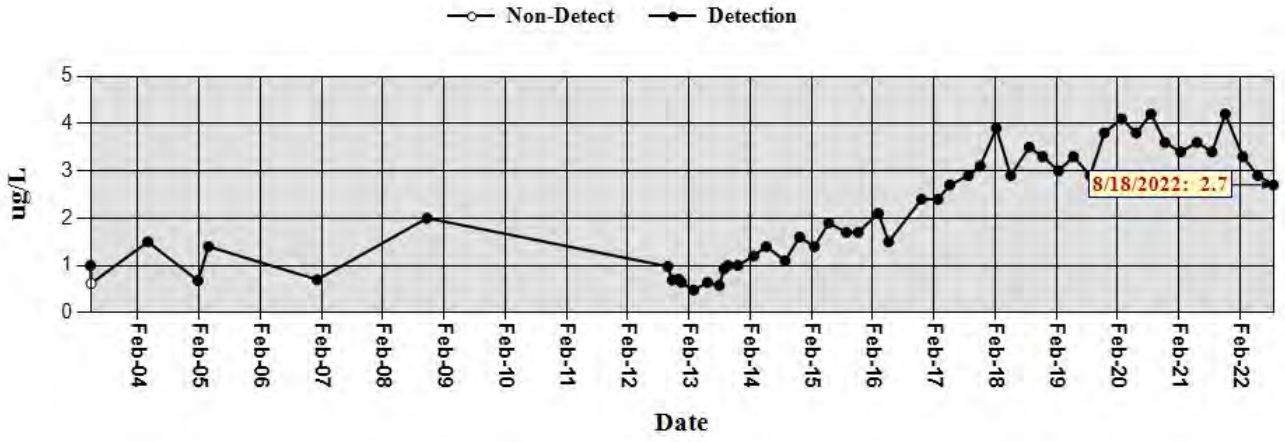
Well ID: MPE-8
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



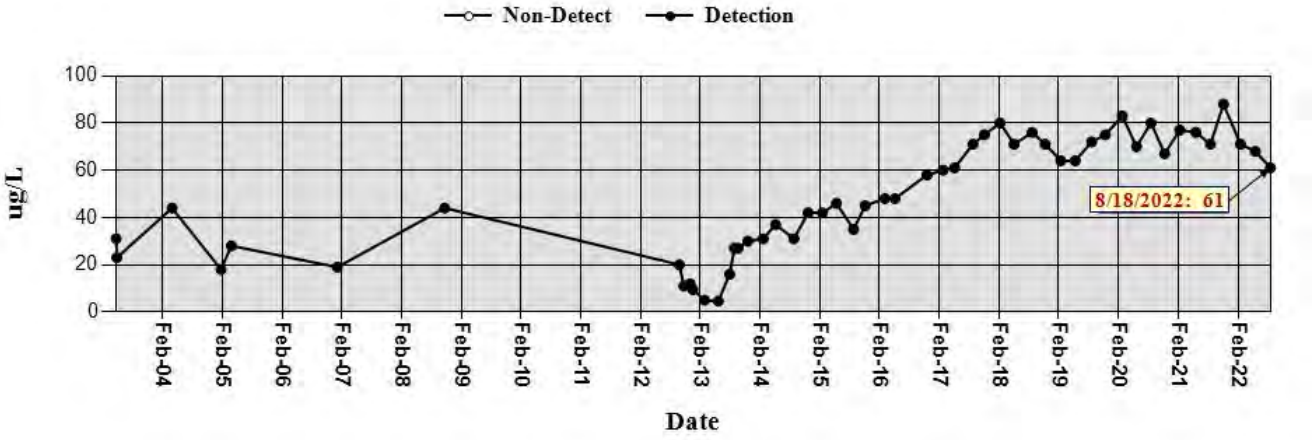
Well ID: MPE-8
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: MPE-8
CAS RN: 79-01-6 Trichloroethene

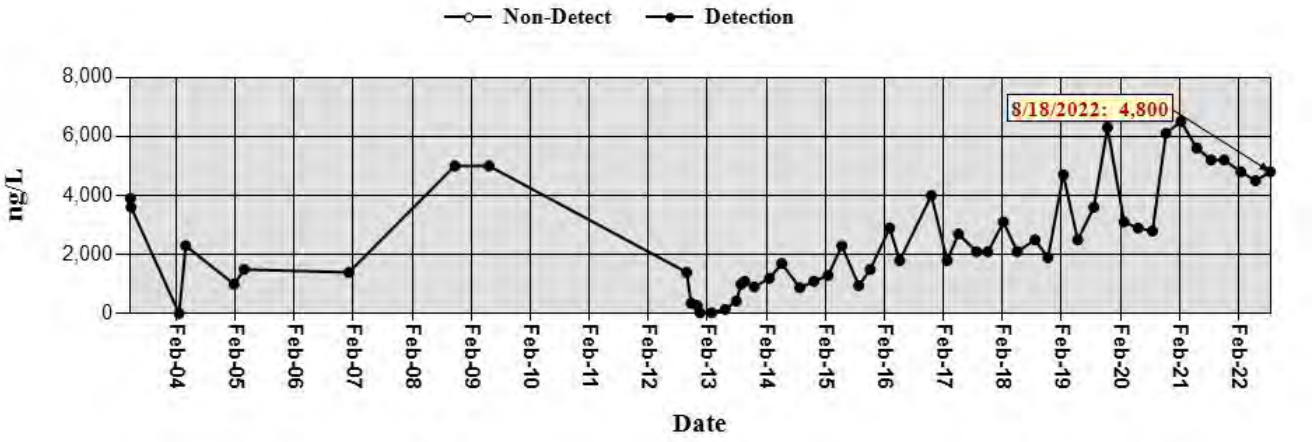
Analysis: 8260



Well ID: MPE-8
CAS RN: 62-75-9 N-Nitrosodimethylamine

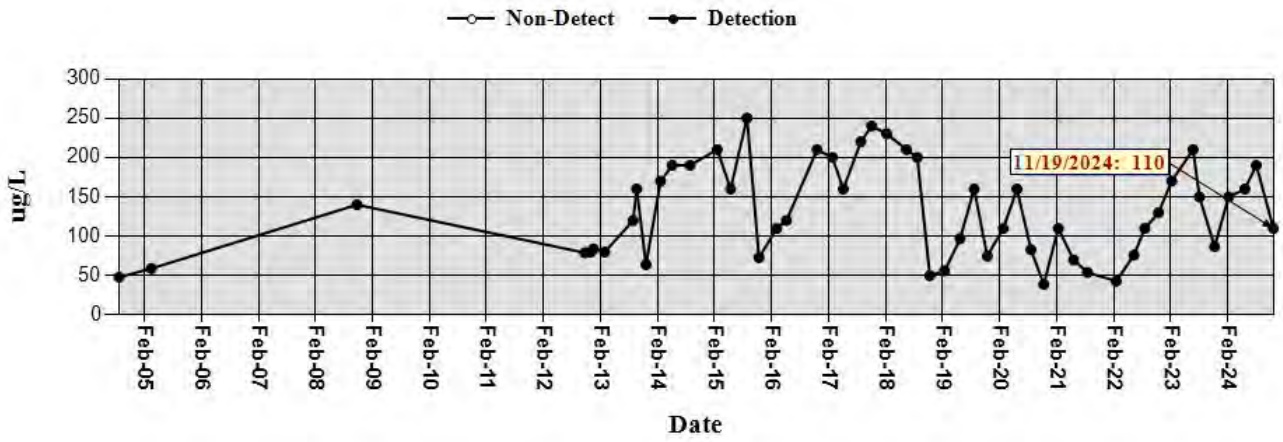
Analysis: 607

Results are Corrected for Extraction Efficiency



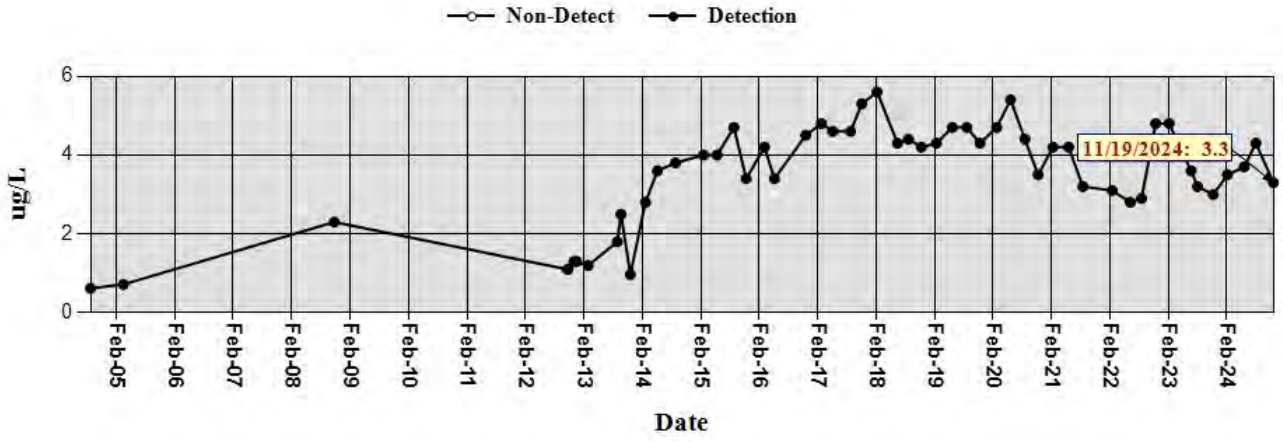
Well ID: MPE-9
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



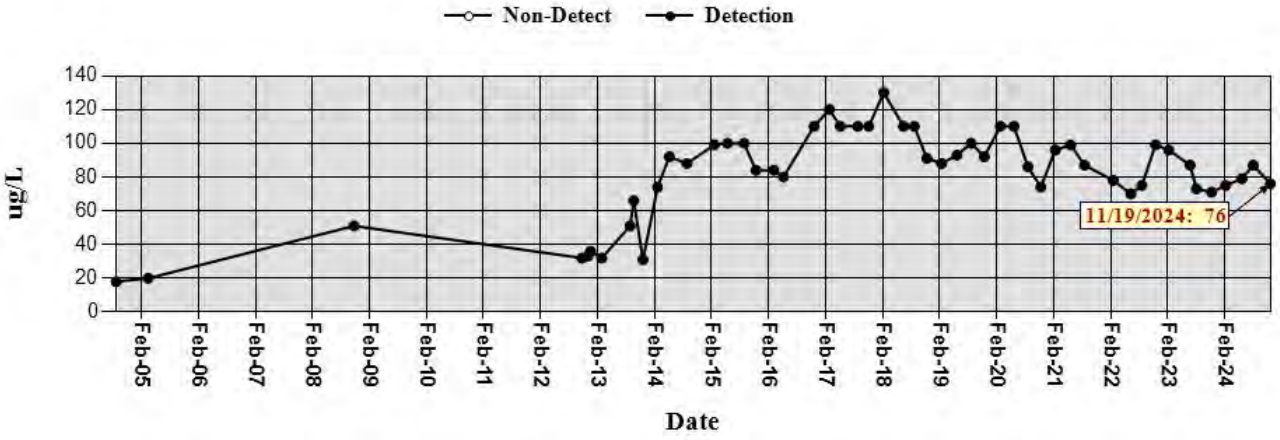
Well ID: MPE-9
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: MPE-9
CAS RN: 79-01-6 Trichloroethene

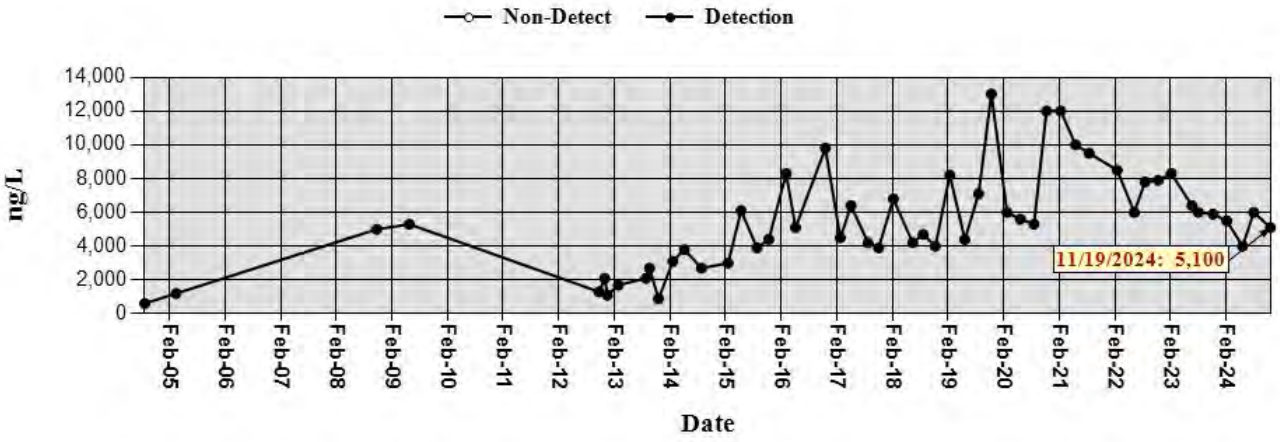
Analysis: 8260



Well ID: MPE-9
CAS RN: 62-75-9 N-Nitrosodimethylamine

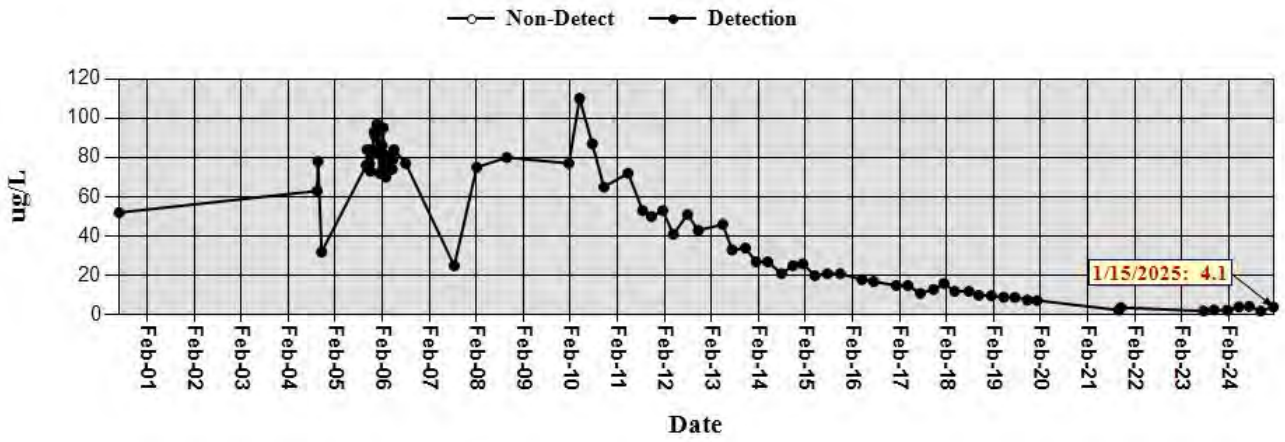
Analysis: 607

Results are Corrected for Extraction Efficiency



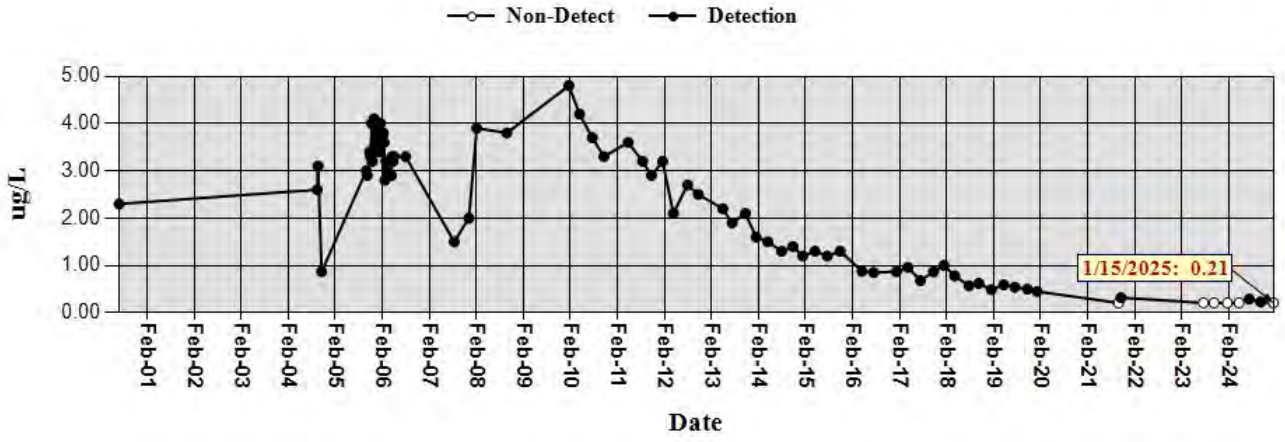
Well ID: PFE-1
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



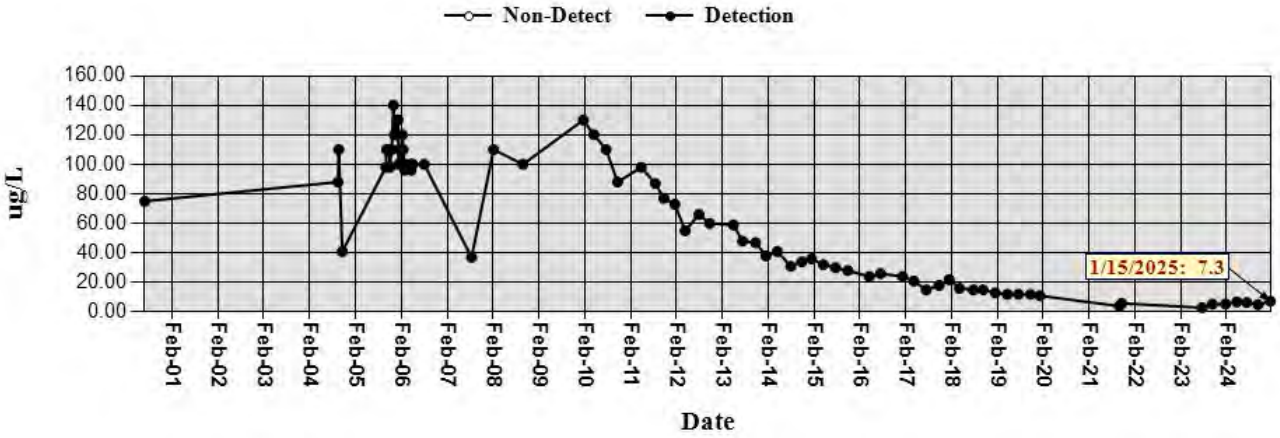
Well ID: PFE-1
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: PFE-1
CAS RN: 79-01-6 Trichloroethene

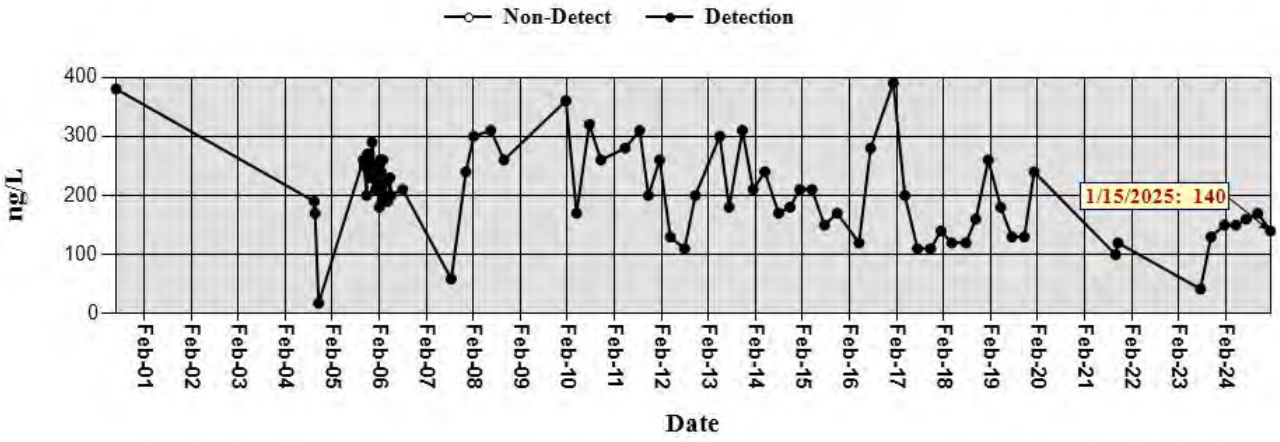
Analysis: 8260



Well ID: PFE-1
CAS RN: 62-75-9 N-Nitrosodimethylamine

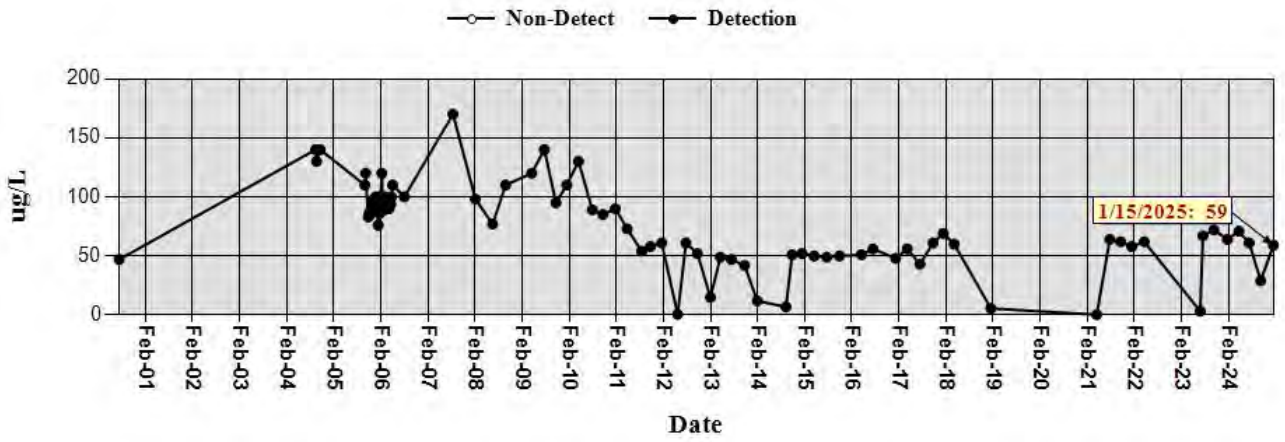
Analysis: 607

Results are Corrected for Extraction Efficiency



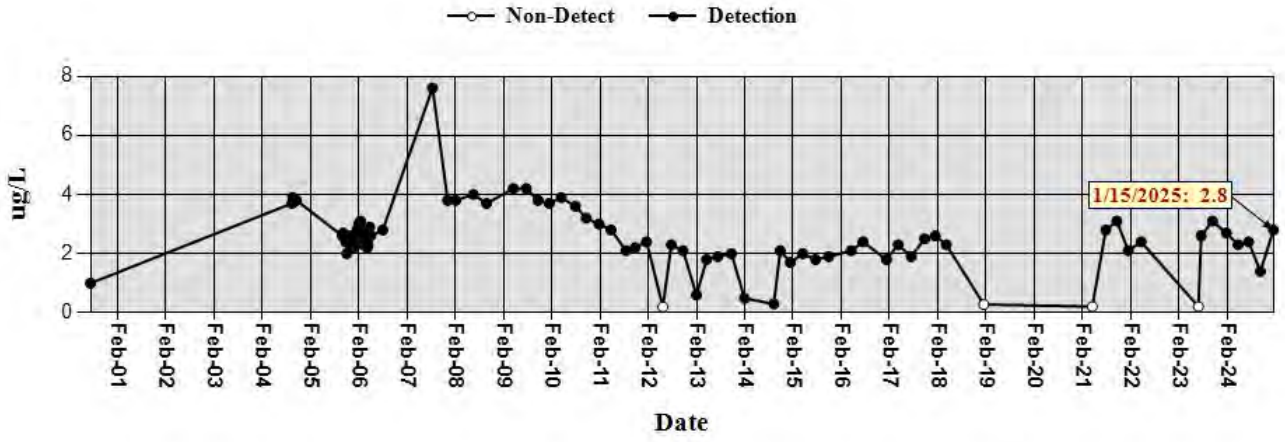
Well ID: PFE-2
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



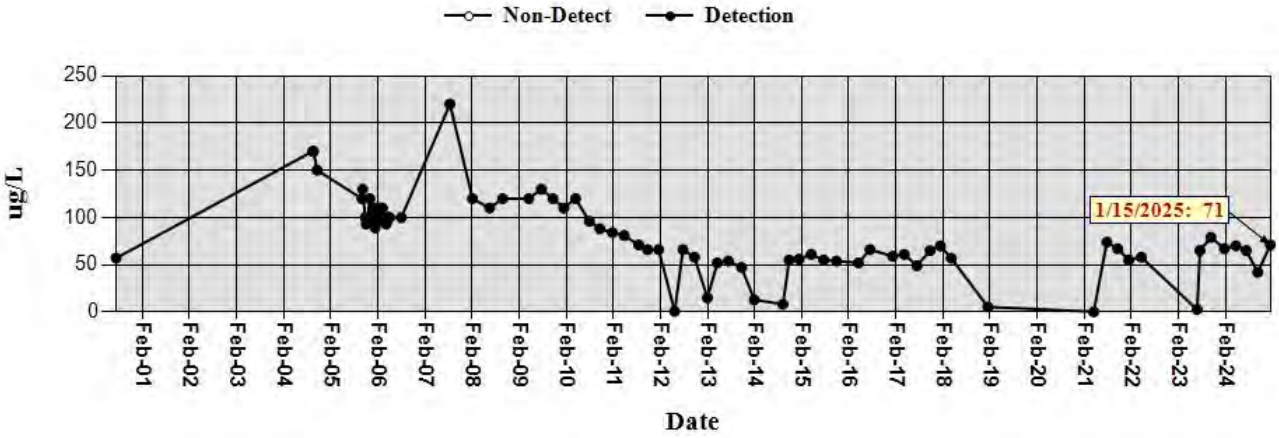
Well ID: PFE-2
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: PFE-2
CAS RN: 79-01-6 Trichloroethene

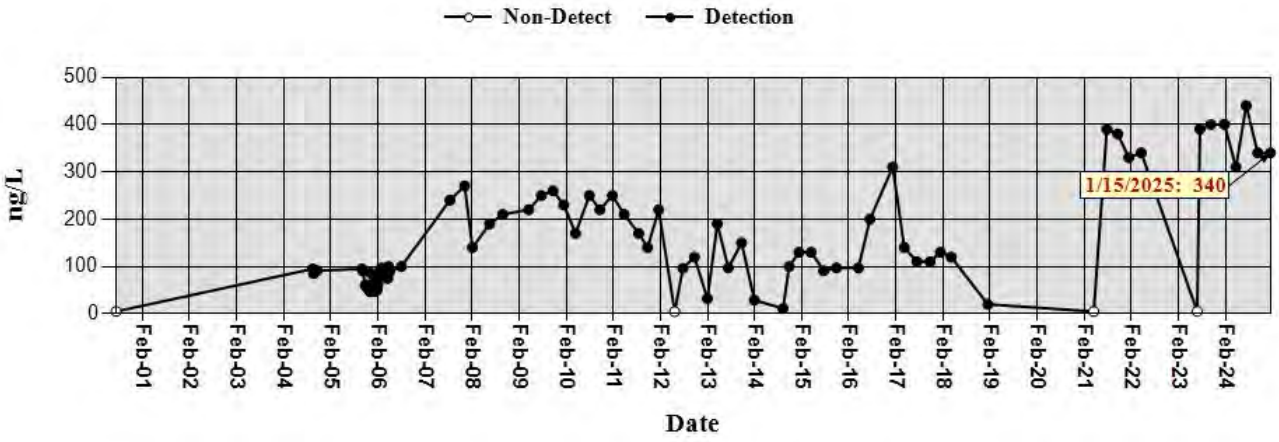
Analysis: 8260



Well ID: PFE-2
CAS RN: 62-75-9 N-Nitrosodimethylamine

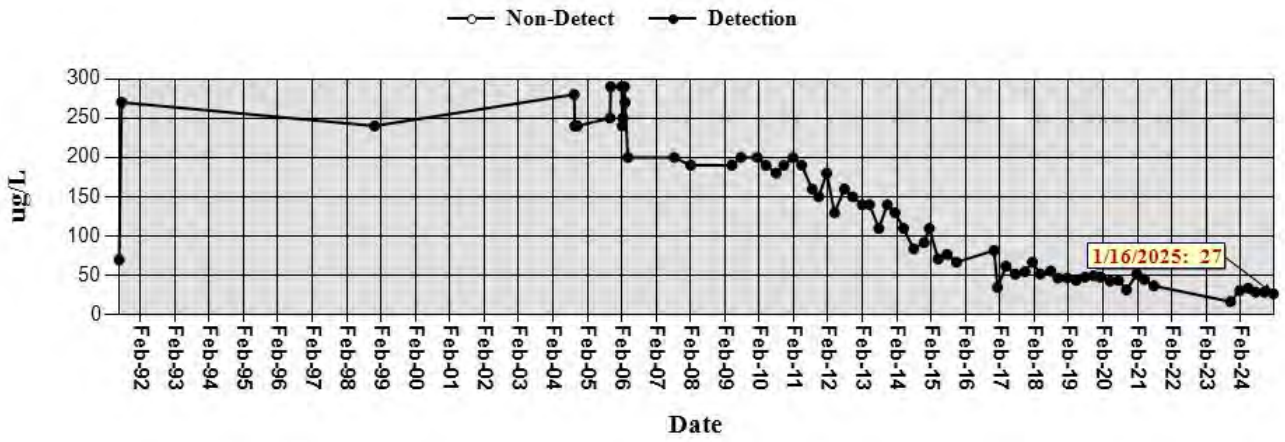
Analysis: 607

Results are Corrected for Extraction Efficiency



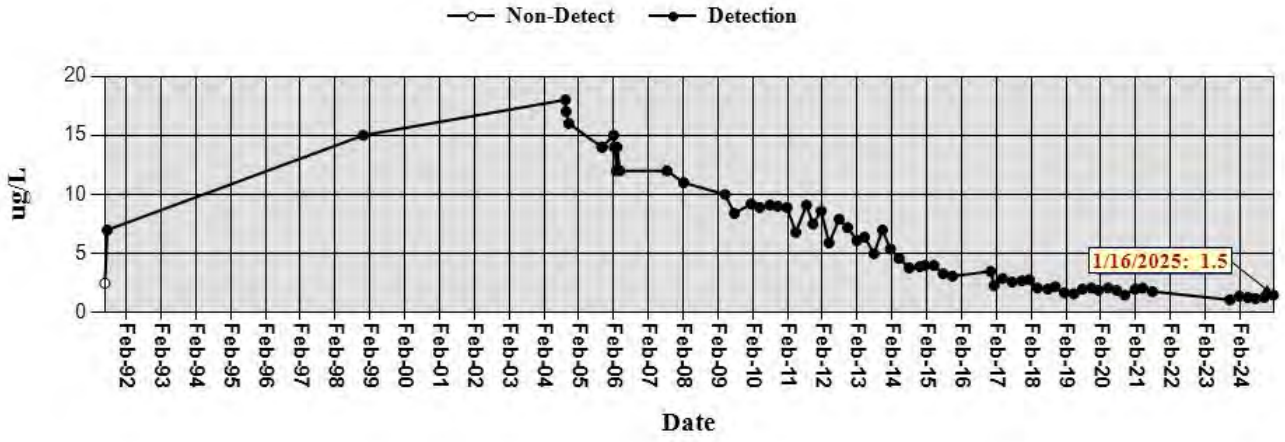
Well ID: PFE-3
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



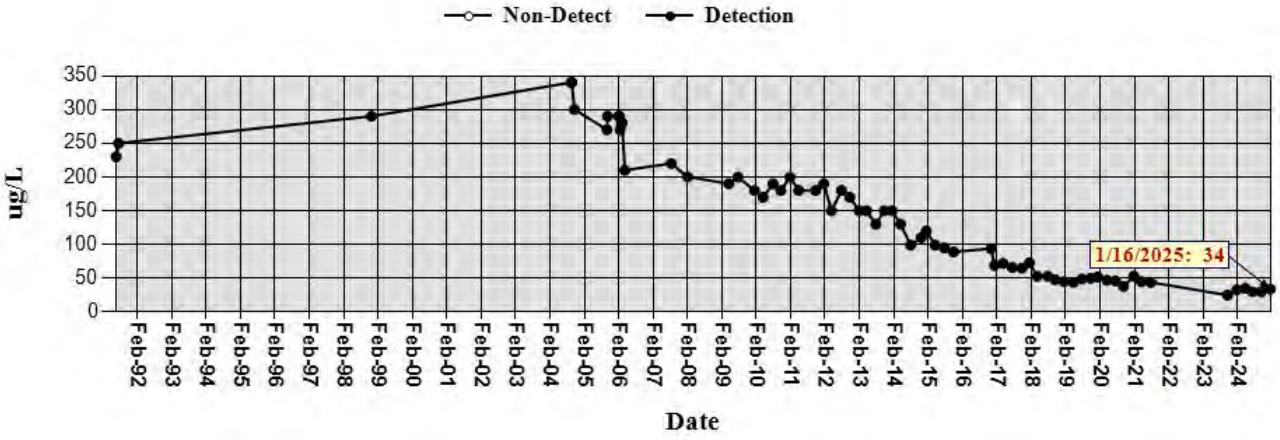
Well ID: PFE-3
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: PFE-3
CAS RN: 79-01-6 Trichloroethene

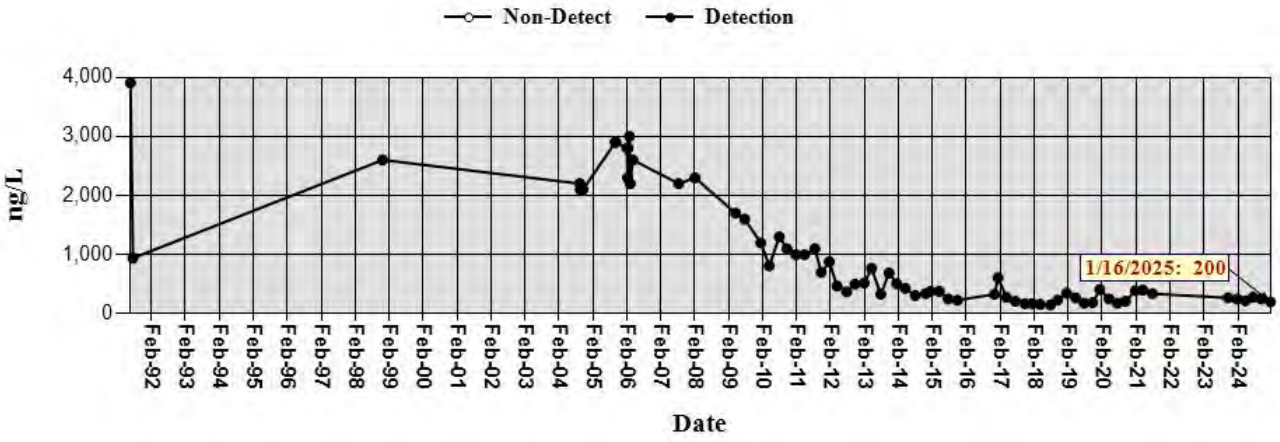
Analysis: 8260



Well ID: PFE-3
CAS RN: 62-75-9 N-Nitrosodimethylamine

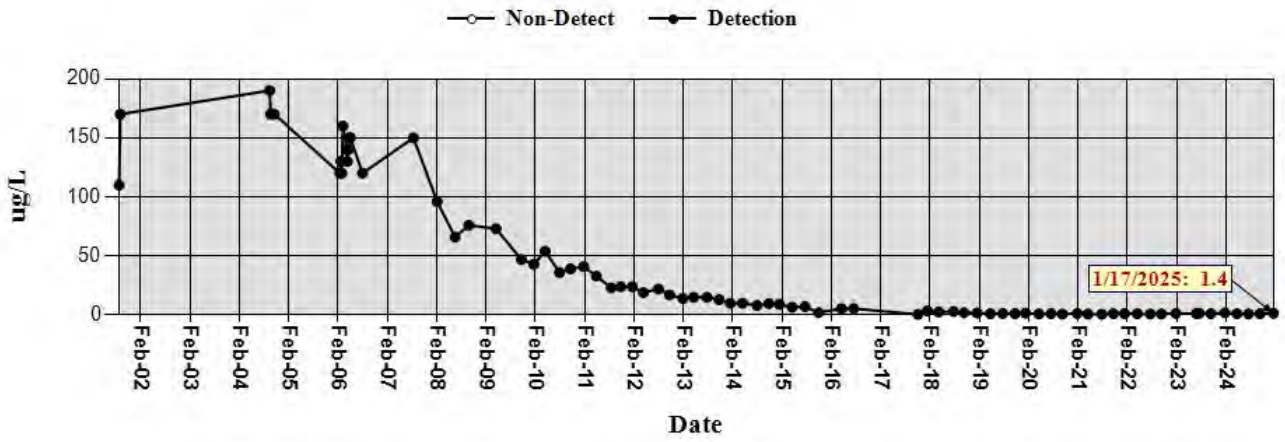
Analysis: 607

Results are Corrected for Extraction Efficiency



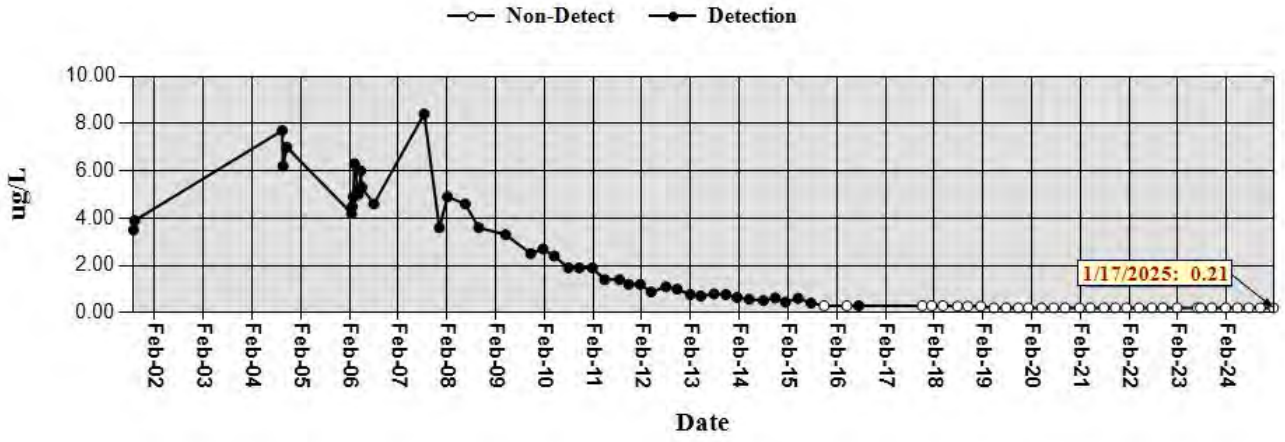
Well ID: PFE-4A
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



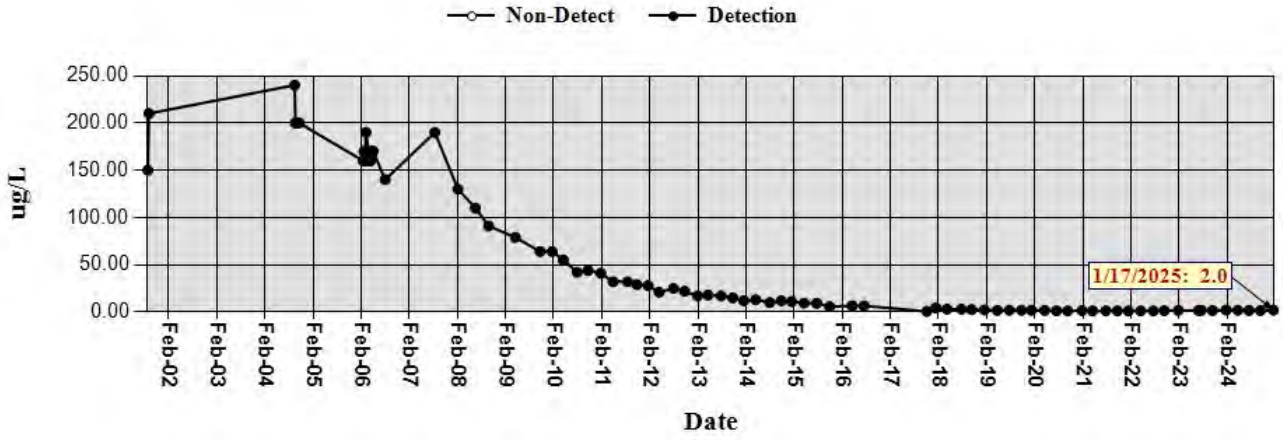
Well ID: PFE-4A
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: PFE-4A
CAS RN: 79-01-6 Trichloroethene

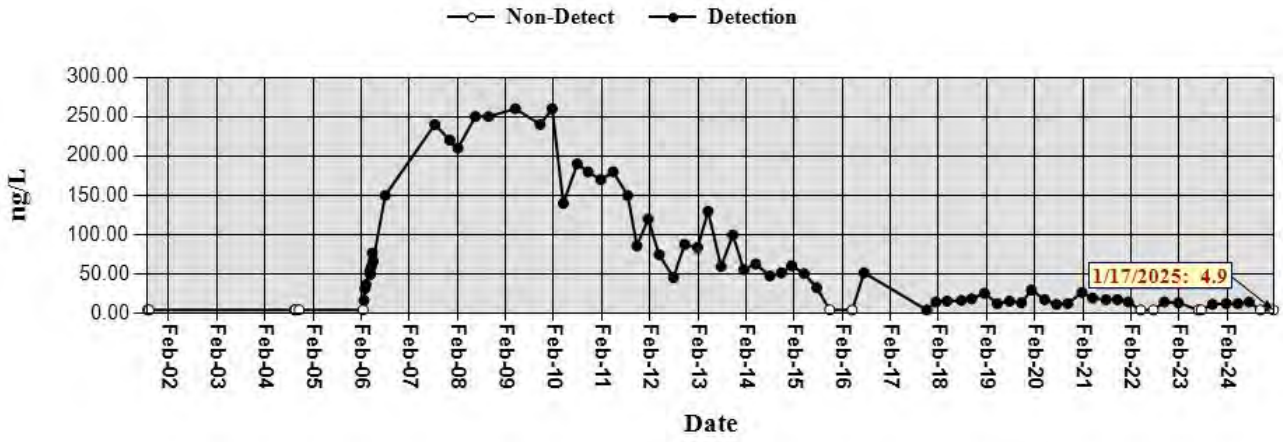
Analysis: 8260



Well ID: PFE-4A
CAS RN: 62-75-9 N-Nitrosodimethylamine

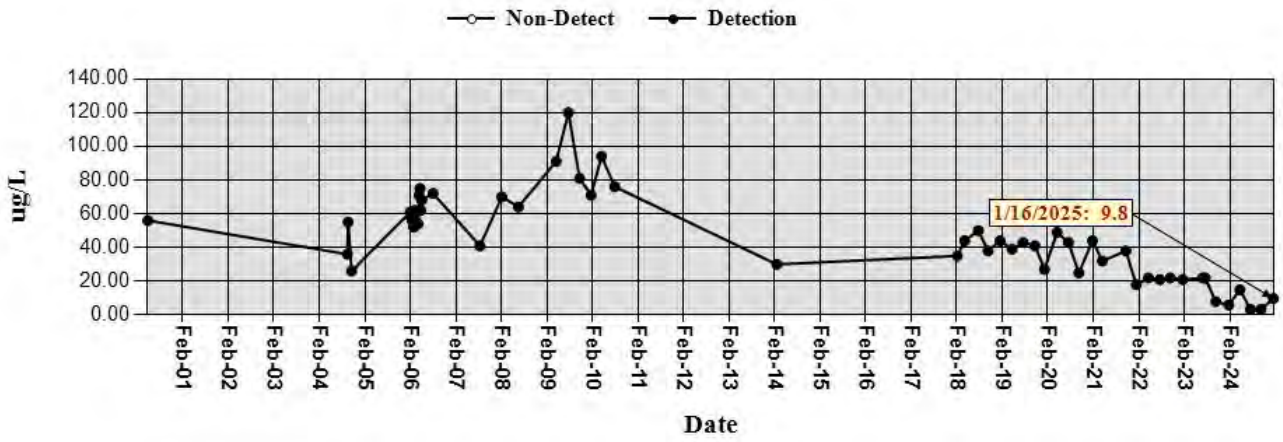
Analysis: 607

Results are Corrected for Extraction Efficiency



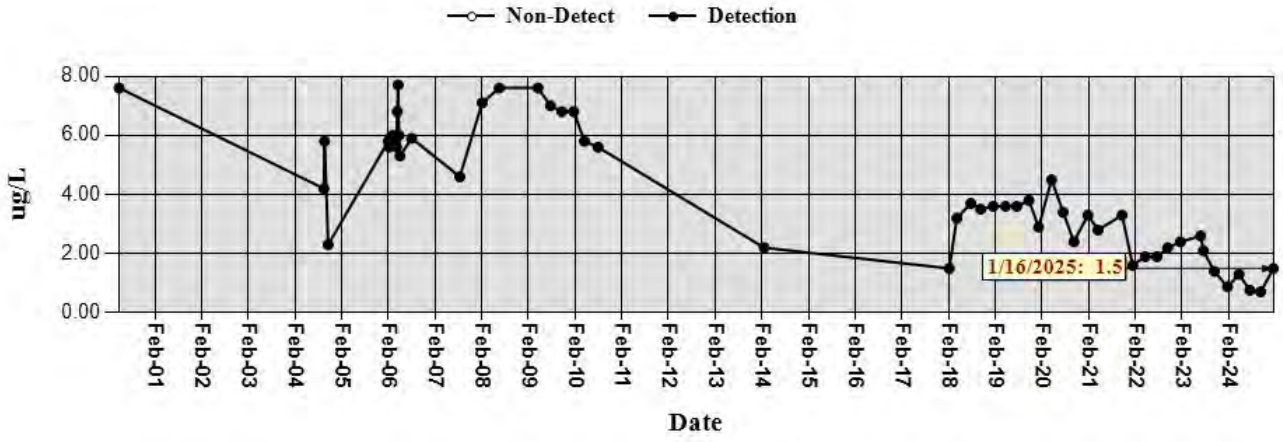
Well ID: PFE-5
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



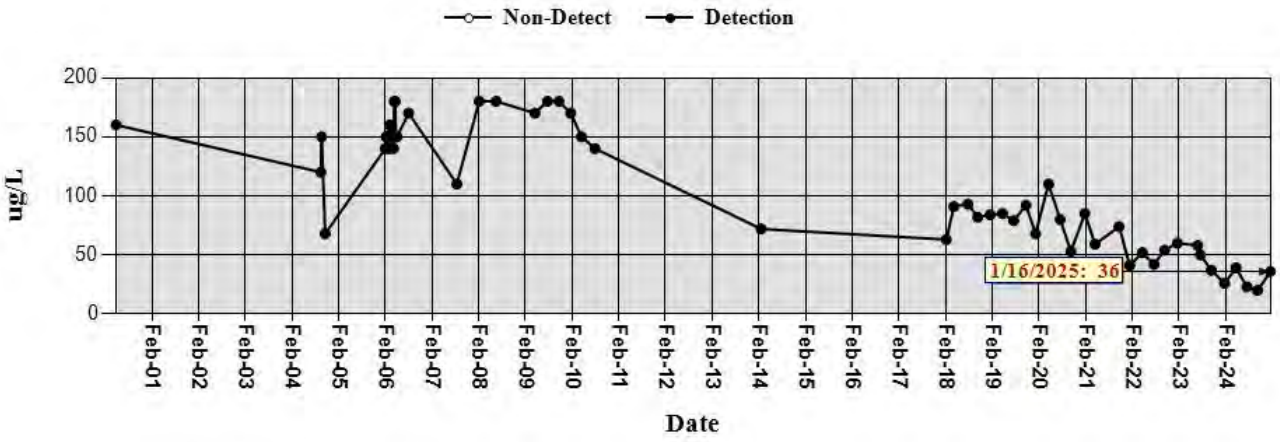
Well ID: PFE-5
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: PFE-5
CAS RN: 79-01-6 Trichloroethene

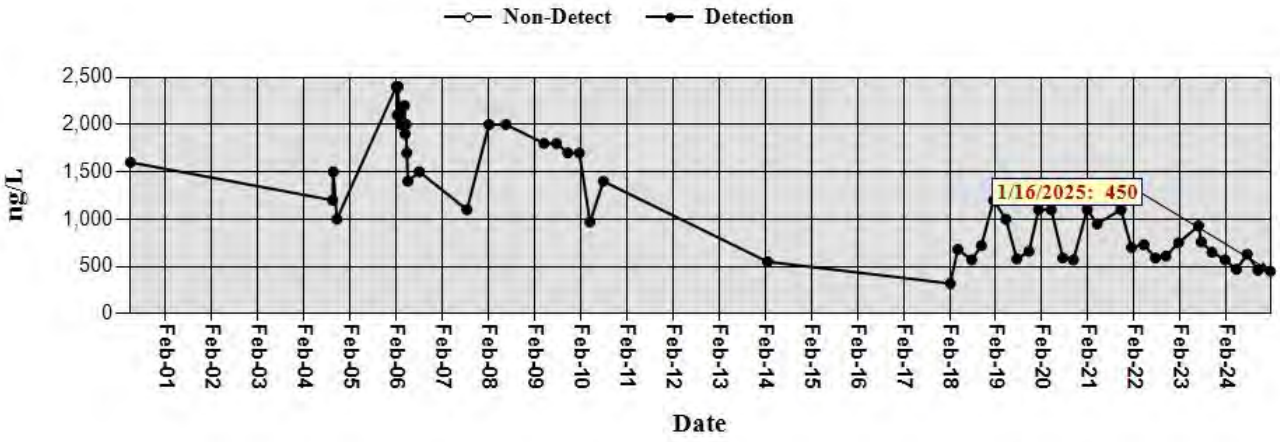
Analysis: 8260



Well ID: PFE-5
CAS RN: 62-75-9 N-Nitrosodimethylamine

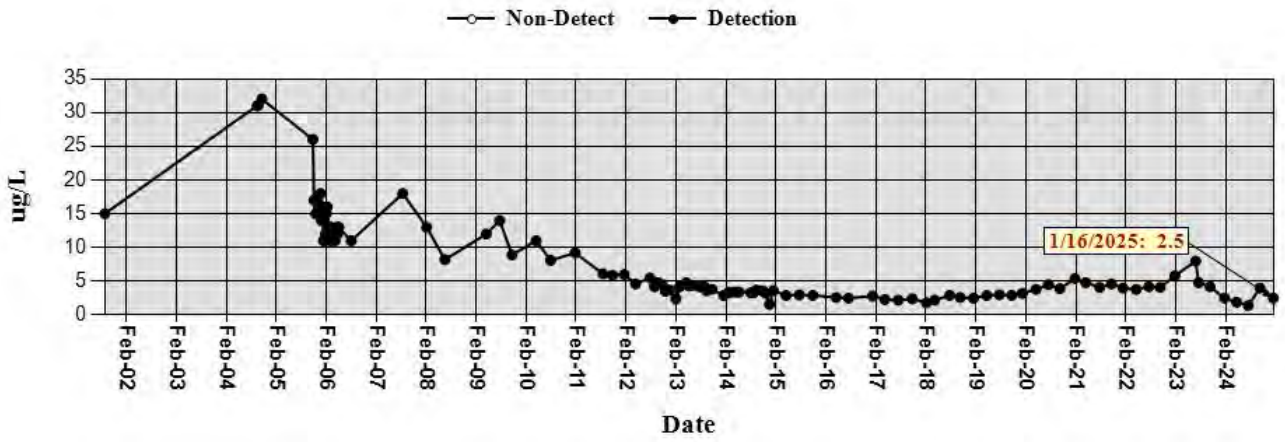
Analysis: 607

Results are Corrected for Extraction Efficiency



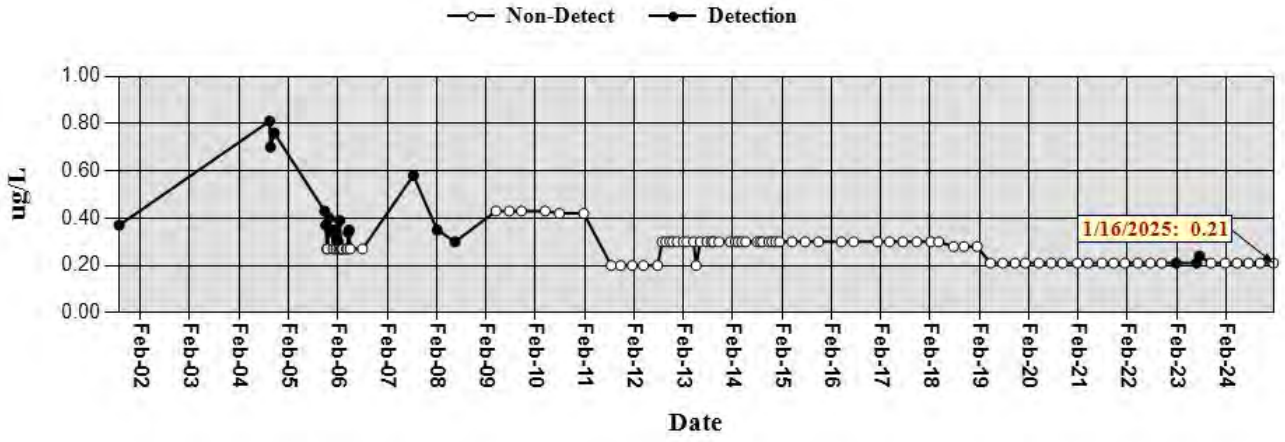
Well ID: PFE-7
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



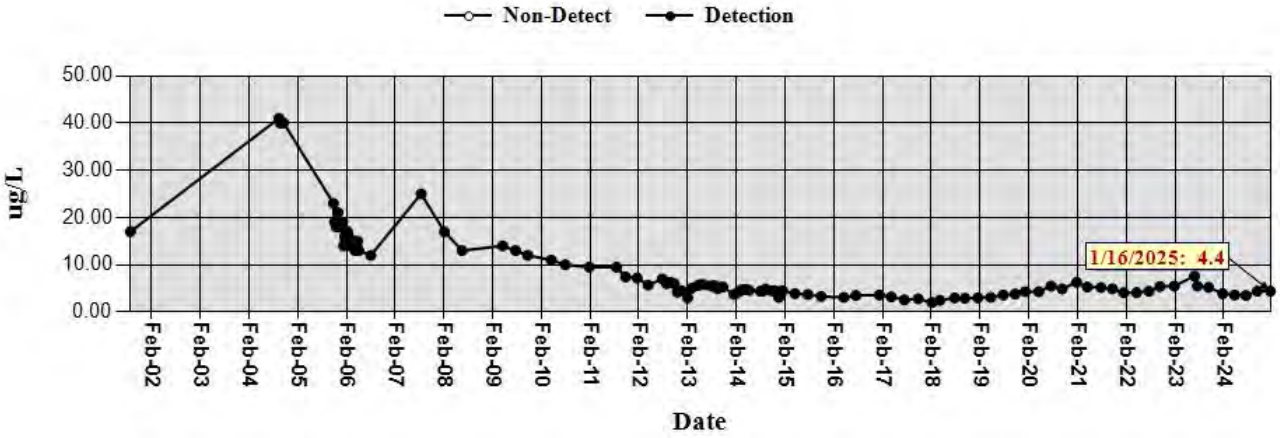
Well ID: PFE-7
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



Well ID: PFE-7
CAS RN: 79-01-6 Trichloroethene

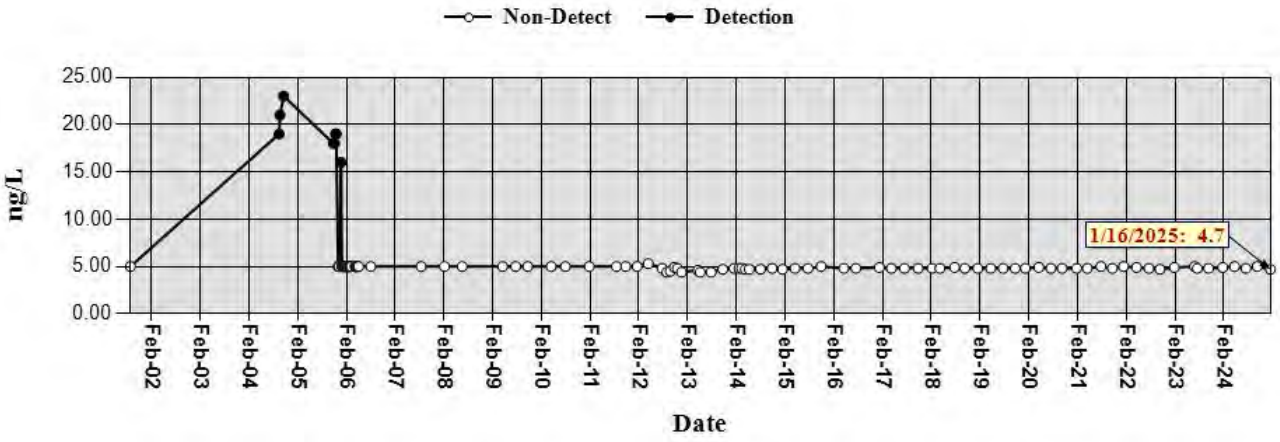
Analysis: 8260



Well ID: PFE-7
CAS RN: 62-75-9 N-Nitrosodimethylamine

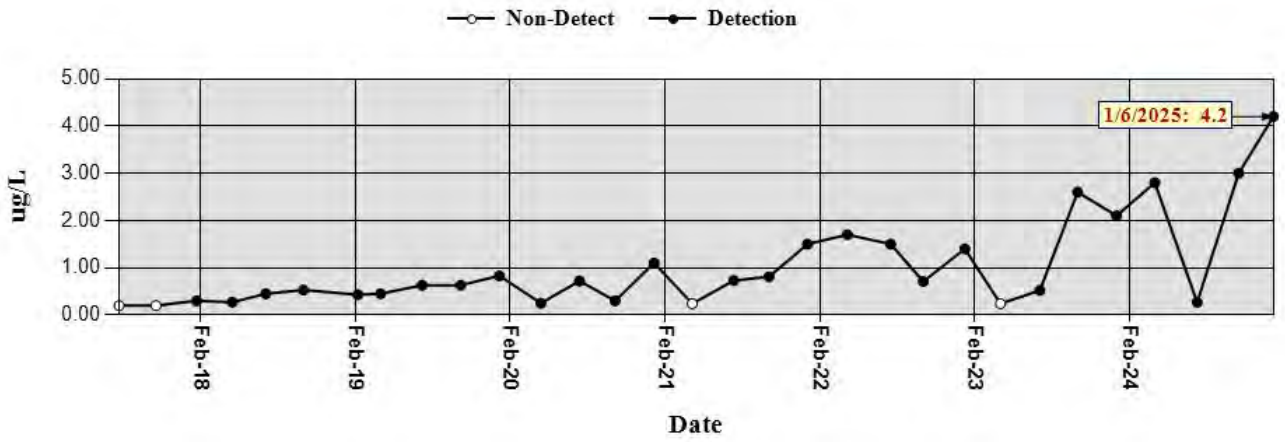
Analysis: 607

Results are Corrected for Extraction Efficiency



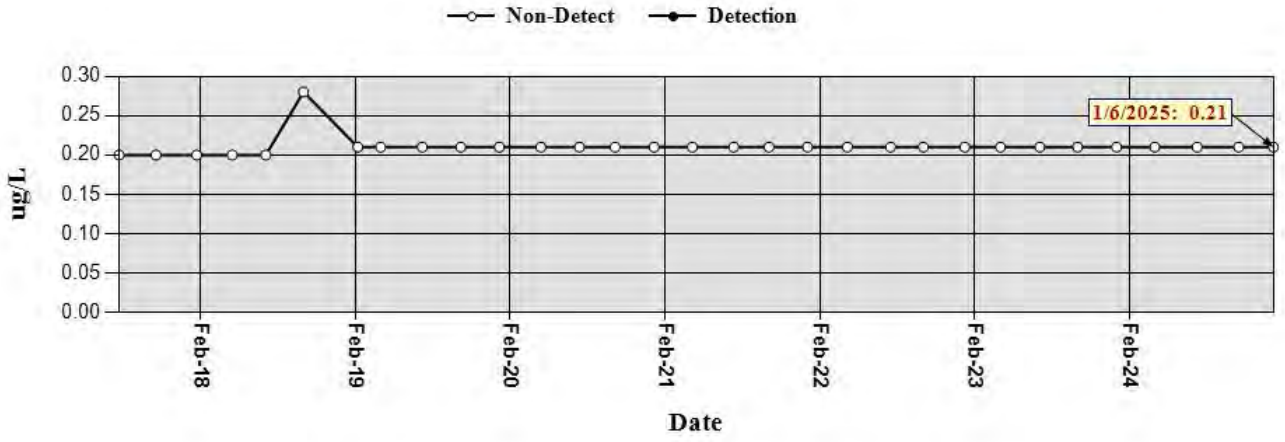
Well ID: ST-7-544
CAS RN: 75-69-4 F11 - Trichlorofluoromethane

Analysis: 8260



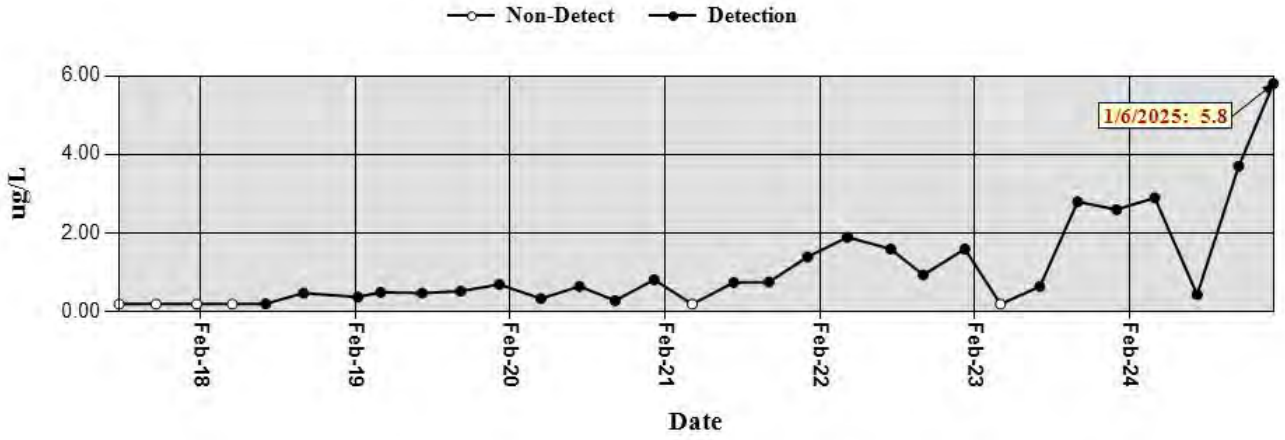
Well ID: ST-7-544
CAS RN: 127-18-4 Tetrachloroethene

Analysis: 8260



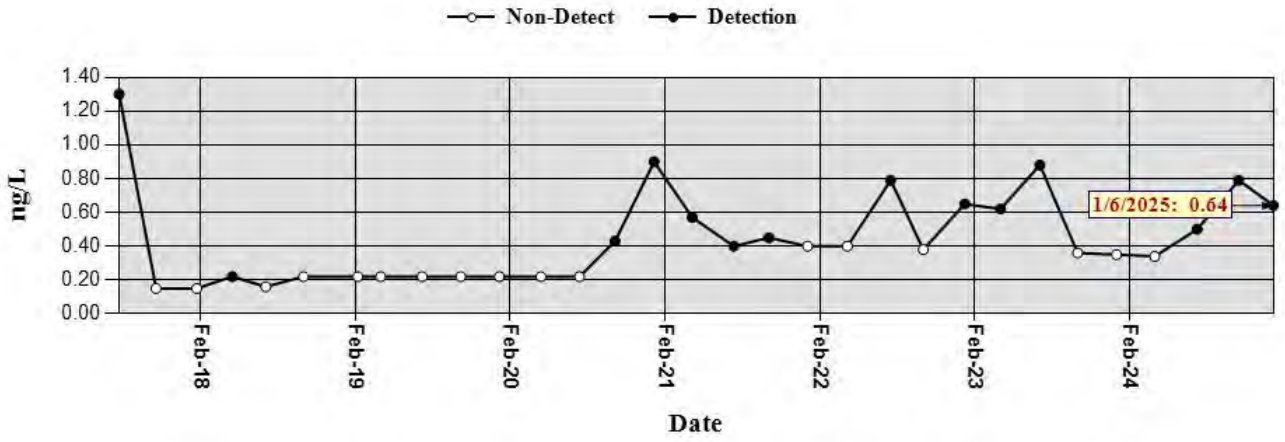
Well ID: ST-7-544
CAS RN: 79-01-6 Trichloroethene

Analysis: 8260



Well ID: ST-7-544
CAS RN: 62-75-9 N-Nitrosodimethylamine

Analysis: NDMA_LL



Appendix F
Summary of Source Area Investigations

Appendix F Summary of Groundwater Monitoring Projects and Source Area Investigations

1.0 Groundwater Monitoring Well Abandonment, Installation, and Reconfiguration

During the third quarter of 2024, NASA identified significant budget constraints that resulted in the suspension of many scheduled monitoring well and corrective action projects. During the fourth quarter of 2024, NASA evaluated the available budget, prioritized ongoing and upcoming environmental projects, and prepared and submitted the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* on December 13, 2024 (NASA, 2024jj). NMED responded to NASA's proposal on February 3, 2025 with direction on how to address specific projects (NMED, 2025). Specific sections of the initial submittal are referenced throughout this appendix as individual projects are discussed, along with NMED direction, as applicable.

1.1 Well Abandonment and Replacement

There was no fieldwork related to well abandonment or replacement projects in the first quarter of 2025.

1.1.1 Well BLM-28

NASA abandoned well BLM-28 in the first quarter of 2023 and provided the *Abandonment Report for NASA Well BLM-28* on March 14, 2023 (NASA, 2023g). NMED approved the report on February 6, 2024 (NMED, 2024d). Refer to Section 1.4.1 of this appendix for information related to replacement well 600B-001-GW.

1.1.2 Well BLM-30

NASA abandoned well BLM-30 in the first quarter of 2023. Because the well was initially scheduled for immediate replacement, abandonment information was to be included in the report detailing installation of the replacement well BLM-43. Refer to Section 1.4.2 of this appendix for information related to replacement well BLM-43.

1.1.3 Well NASA 9

In June 2020, NASA attempted to remove the dedicated low-flow bladder pump from well NASA 9 to extend the tubing and lower the pump intake due to declining water levels. During removal activities, the tubing bundle separated from the pump, and the pump then dropped into the 5-foot (ft) well sump. During attempts to recover the pump using special fishing tools, NASA discovered that the inside of the 2-inch stainless-steel casing was obstructed with small roots just above and below the static water level. Numerous attempts to lock onto the top of the pump with the fishing tool were unsuccessful and the bladder pump could not be retrieved. On November 15, 2021, NMED approved the 2021 Groundwater Monitoring Plan (GMP) with a modification that directed NASA to submit a work plan for abandoning and replacing well NASA 9 (NMED, 2021n). NASA prepared and submitted the *Work Plan for Abandonment of NASA WSTF NASA 9 and Replacement with Monitoring Well 400-001-GW* on April 29, 2022 (NASA, 2022g). NMED approved the work plan on October 31, 2022 (NMED, 2022n). NASA abandoned well NASA 9 in the first quarter of 2023. In conjunction with supplemental drilling in the 300 Area, NASA installed the replacement groundwater monitoring well 400-001-GW in June 2024. The well was developed and sampled for the groundwater contaminants identified in the current NMED-approved GMP. Information on the abandonment of well NASA 9 is included in the August 30, 2024 *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 400-001-GW* (NASA, 2024w). NMED review of that report is pending.

1.2 Well Abandonment

NASA completed project planning for the abandonment of well PFI-1 as indicated in the November 20, 2024 *Plugging and Abandonment of NASA Well PFI-1* (NASA, 2024ff). NASA initiated abandonment fieldwork at well PFI-1 in accordance with that plan on March 31, 2025.

1.3 Well Installation

1.3.1 New Well 600C-001-GW

NASA submitted the *Work Plan for Drilling and Installation of Monitoring Well 600C-001-GW at the NASA White Sands Test Facility (WSTF)* on August 31, 2021 (NASA, 2021s, pp1-2). NASA received NMED's October 14, 2021 fee assessment and invoice for review of the plan and provided the $2,000 review on October 28, 2021. NMED approved the work plan with modifications on April 25, 2022 (NMED, 2022f) and directed NASA to submit a well completion report no later than April 28, 2023. NASA submitted the *Request for Extension of Time for Submittal of the Completion Report for Installation of Monitoring Well 600C-001-GW* on April 12, 2023. NMED approved the request on May 10, 2023 (NMED, 2023i), extending the due date for submittal of the report to October 29, 2023. NASA submitted the *Request for Second Extension of Time for Submittal of the Completion Report for Monitoring Well 600C-001-GW* on September 15, 2023 (NASA, 2023cc). NMED approved the request on October 4, 2023 (NMED, 2023q), extending the date for submittal of the well completion report to July 31, 2024. NASA performed no further planning in the third and fourth quarters of 2024. Table 1.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 1, page 4) provided specific information related to NASA's expected schedule for replacement well 600C-001-GW. NMED directed NASA to submit a request for extension of time for submittal of the well completion report (NMED, 2025).

1.3.2 New Wells 600A-003-GW and 600A-004-GW

As part of the ongoing investigation at the WSTF wastewater lagoons (NMED, 2022i), NASA installed two additional perched groundwater monitoring wells in the 600 Area. Wells 600A-003-GW and 600A-004-GW were installed during the first quarter of 2023. Because of elevated turbidity and limited available groundwater within these monitoring wells, well development has been very slow. During the fourth quarter of 2024, NASA completed additional development of well 600A-004-GW with site-specific equipment. NASA completed development of well 600A-003-GW in the first quarter of 2025 and sampled the well for initial sampling in accordance with the GMP.

1.3.3 New Wells 600C-003-GW and 600C-004-GW

NASA submitted the *NASA WSTF Work Plan for Drilling and Installation of Monitoring Wells 600C-003-GW and 600C-004-GW* on April 27, 2023 (NASA, 2023l). NASA received NMED's May 11, 2023 *Fee Assessment Work Plan for Abandonment of NASA WSTF Well BLM-1-435 and Replacement with Monitoring Well 600C-003-GW* and provided the $2,000 review fee on June 26, 2023. NASA received NMED's May 11, 2023 *Fee Assessment Drilling Work Plan for Proposed NASA WSTF Well 600C-004-GW* and provided the $2,000 review fee on June 26, 2023. NMED approved the work plan for well 600C-003-GW with modifications on November 27, 2023 (NMED, 2023x). NMED directed NASA to address two comments and submit a revised work plan no later than January 31, 2024 and the well completion report no later than December 31, 2024. NASA submitted the *Response to Approval with Modifications of the NASA WSTF Work Plan for Abandonment of NASA WSTF Well BLM-1-435 and Replacement with Monitoring Well 600C-003-GW* on January 30, 2024 (NASA, 2024a). NMED approved the work plan for well 600C-004-GW on November 27, 2023 (NMED, 2023x) and directed NASA to provide a well

completion report no later than November 30, 2024. NASA performed no further planning in the fourth quarter of 2024. NASA recommended an alternate schedule for completion of the wells in Table 1.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 1, pp 4-5). NMED directed NASA to submit requests for extension of time for submittal of the well completion reports (NMED, 2025).

1.3.4 New Wells for PFAS Monitoring in the 100 and 600 Areas

NASA submitted the *Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas (Proposed Monitor Wells for PFAS Assessment)* on April 13, 2023 (NASA, 2023j). NASA received NMED's May 1, 2023 fee assessment and invoice for review of the work plan and provided the $6,000 review fee on May 12, 2023. NMED approved the work plan with modifications on May 23, 2023 (NMED, 2023m). NMED directed NASA to address four NMED comments and submit a revised work plan no later than August 31, 2023. NASA submitted the *Response to Approval with Modifications Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas* on June 12, 2023 (NASA, 2023q). NASA's subcontracted drilling company mobilized to WSTF in mid-July 2023 and completed installation of the two monitoring wells in July and August 2023. They installed groundwater sampling systems in the wells in September 2023 and performed initial sampling. NASA submitted the *NASA White Sands Test Facility (WSTF) Well Completion Report for PFAS Site Investigation Well Completion Summary Report* on March 29, 2024 (NASA, 2024e). NASA received NMED's May 7, 2024 fee assessment (NMED, 2024h) for review of the report and submitted the $6,000 *Fee Assessment for the 100-001-GW and 600C-005-GW Well Completion Reports* on May 21, 2024 (NASA, 2024j). NMED approved the report with modifications on November 5, 2024 and directed NASA to address a comment and submit a revised report no later than January 31, 2025. NASA submitted the *Response to Approval with Modifications for the PFAS Well Completion Report* on January 15, 2025 (NASA, 2025a).

1.4 Westbay Well Reconfiguration

Prior to calendar year 2020, NASA had reconfigured two Westbay wells (JP-3 and WW-2) to dual-zone dedicated low-flow bladder pumps and seven Westbay wells (BLM-32, JER-1, JER-2, ST-6, ST-7, WW-4, and WW-5) to multiport Water FLUTe sampling systems.

1.4.1 BLM-28/600B-001-GW

NASA submitted the *Well Reconfiguration Report for Well BLM-28 and Notice of Intent to Plug and Abandon* on May 4, 2020 (NASA, 2020f). On November 19, 2020, NMED provided requirements for abandonment and replacement of the well (NMED, 2020k). The requirements were that after complete evaluation of all available data and information, NASA would then either submit a work plan for a replacement monitoring well or formally notify NMED that BLM-28 will not be replaced no later than January 31, 2022.

Following NMED's direction from the November 19, 2020 response for reconfiguring BLM-28, NASA submitted a work plan for abandonment of well BLM-28 on April 29, 2021 (NASA, 2021f). NASA then determined that a replacement well is necessary and developed and submitted the *NASA WSTF Work Plan for Drilling and Installation of Monitoring Well 600B-001-GW* on August 31, 2021 (NASA, 2021r, p1). NMED approved the work plan with modifications on April 25, 2022 (NMED, 2022g). NASA abandoned well BLM-28 in the first quarter of 2023 and submitted the *Abandonment Report for NASA Well BLM-28* on March 14, 2023 (NASA, 2023h). NASA submitted the *Fee Assessment for Well BLM-28 Abandonment Report (NMED Invoice Number HWB-NASA-23-004)* on May 11, 2023. NMED approved the report on February 6, 2024 (NMED, 2024e). NASA proposed an updated schedule for well

installation in Table 1.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 1, page 5). NMED directed NASA to submit a request for extension of time for submittal of the well completion report (NMED, 2025).

1.4.2 BLM-30/BLM-43

On November 5, 2020, NMED issued an approval with modifications (NMED, 2020i) of NASA's plan to P&A well BLM-30 and replace it with new well BLM-43. NMED directed NASA to perform geophysical logging and to provide a well completion report for BLM-43 no later than November 30, 2021. NASA submitted the *Response to Approval with Modifications Work Plan for Abandonment of NASA WSTF Well BLM-30 and Replacement with Monitoring Well BLM-43* on February 3, 2021 (NASA, 2021a) and corresponded with the New Mexico Office of the State Engineer (NASA, 2021d) on the plugging plan for well BLM-30 and application for a permit to drill well BLM-43 on March 15, 2021. On September 28, 2021, NASA submitted the *Request for Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43* (NASA, 2021v). NMED approved the request on October 27, 2021, which extended the due date for submittal of the report to November 30, 2022 (NMED, 2021m). NASA submitted the *Request for Second Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43* on April 26, 2022 (NASA, 2022e). NMED approved the request on June 6, 2022 (NMED, 2022g), extending the due date for submittal of the well completion report to April 28, 2023. NASA abandoned well BLM-30 in the first quarter of 2023 and continued planning the installation of replacement well BLM-43. Information on the abandonment of well BLM-30 will be included in the well completion report for well BLM-43. NASA submitted the *Request for Third Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43* (NASA, 2023i) on April 12, 2023. NMED approved the request on May 10, 2023 (NMED, 2023k), extending the due date for submittal of the well completion report to October 29, 2023. NASA submitted the *Request for Fourth Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43* on September 15, 2023 (NASA, 2023bb). NMED approved the request on October 4, 2023 (NMED, 2023p), extending the date for submittal of the completion report to July 31, 2024. Table 1.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 1, page 5) provided NASA's recommendation for an alternate installation schedule. NMED directed NASA to submit a request for extension of time for submittal of the well completion report (NMED, 2025).

1.4.3 BW-4

NASA determined that well BW-4 could be reconfigured for continued use and submitted a well reconfiguration work plan for well BW-4 on June 29, 2021 (NASA, 2021k, p5). NMED approved the work plan on January 18, 2022 (NMED, 2022a) with modifications and direction to submit a well reconfiguration report no later than March 30, 2023 and a revised work plan no later than March 11, 2022. NASA submitted the *Response to Approval with Modifications of NASA WSTF Well Reconfiguration Work Plan for Well BW-4* on March 8, 2022 (NASA, 2022c). NASA abandoned the lower portion of the borehole in January 2023 and continued planning for final reconfiguration of the well (sampling system acquisition and installation). NASA submitted the *Reconfiguration Report for NASA Well BW-4* on March 21, 2023 (NASA, 2023h). NASA received NMED's April 6, 2023 fee assessment and invoice for review of the report and provided the $2,000 review fee on May 11, 2023 (NASA, 2023n). NMED disapproved the report on February 6, 2024 (NMED, 2024e) and directed NASA to address an NMED comment and submit a revised report no later than July 31, 2024. To provide additional time for required fieldwork at this well, NASA submitted the *Request for Extension of Time for*

Submittal of NASA White Sands Test Facility (WSTF) Response to the Disapproval of Reconfiguration Report for Well BW-4 (NASA, 2024n) on July 22, 2024. NMED approved the request on July 31, 2024, extending the due date for submittal of the revised report to November 30, 2024 (NMED, 2024j). NASA performed additional fieldwork at the well to address NMED comments and submitted the *Response to Disapproval of Reconfiguration Report for NASA Well BW-*4 on November 21, 2024 (NASA, 2024gg). NMED continued reviewing this submittal in the first quarter of 2025.

1.4.4 Data Representativeness and Westbay Well Reconfiguration Plan

The FLUTe Data Representativeness investigation took the form of isolation and serial sampling of four zones of well WW-4 with the FLUTe liner removed. NASA completed the groundwater data representativeness evaluation performed at groundwater monitoring well WW-4 and submitted the *Groundwater Data Representativeness Phase 1: Water FLUTe Well Evaluation Abbreviated Investigation Report* to NMED on February 27, 2020 (NASA, 2020c, pp2-13). NMED reviewed the *Groundwater Data Representativeness Phase 1: Water FLUTe Well Evaluation Abbreviated Investigation Report* (2/27/2020) and on June 3, 2021 issued an Approval with Modifications (NMED, 2021j). This approval required a change to the investigation report indicating a need for an expanded investigation, and a subsequent work plan for the investigation. NASA submitted a response to the approval with modifications on August 17, 2021 (NASA, 2021q, p14). NASA followed that with submittal of the *Abbreviated Investigation Work Plan for Groundwater Data Representativeness, Phase 2: FLUTe Well Evaluation* on November 2, 2021 (NASA, 2021w). NMED approved the work plan on August 8, 2022 (NMED, 2022k). NASA performed the required fieldwork and submitted the *Groundwater Data Representativeness Phase 2: Water FLUTe Well Evaluation Abbreviated Investigation Report* on April 27, 2023 (NASA, 2023k). NASA received NMED's May 1, 2023 fee assessment and invoice for review of the report and provided the $10,000 review fee on June 26, 2023. NMED disapproved the report on February 6, 2024 (NMED, 2024e) and directed NASA to address eight comments and submit a revised report no later than July 31, 2024. NASA submitted the *Groundwater Data Representativeness Phase 2 Disapproval Response: Water FLUTe Well Evaluation Abbreviated Investigation Report* on July 31, 2024 (NASA, 2024q).

The Westbay Well Reconfiguration Plan required time extensions to allow NASA to evaluate data from FLUTe sampling systems currently in place at WSTF, in the form of data from Westbay wells converted to FLUTe, and from laboratory testing of the FLUTe sample components. Beginning in 2020, NMED approved an extension request to submit the well reconfiguration work plan no later than December 31, 2020 (NMED, 2020a). On November 30, 2020, NASA submitted a *Request for Fourth Extension of Time for Well Reconfiguration Work Plan* (NASA, 2020p). NMED approved the fourth extension request for submittal of the well reconfiguration work plan for wells PL-6, PL-7, PL-8, PL-10, ST-5, and WW-3 on January 25, 2021 (NMED, 2021a). NASA submitted the *Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3* to NMED on April 29, 2021 (NASA, 2021e, pp2-4). NMED disapproved the work plan on February 6, 2024 (NMED, 2024e) and directed NASA to address an NMED comment and submit a revised work plan no later than July 31, 2024. NASA identified an opportunity to improve the revised work plan through additional technical review and submitted the *NASA WSTF Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3 Extension Request* on August 2, 2024 (NASA, 2024r). NASA subsequently submitted the *Response to Disapproval of the NASA WSTF Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3* on August 30, 2024 (NASA, 2024v). NMED continued review of the revised work plan during the first quarter of 2025.

2.0 Source Area Investigations

2.1 200 Area

At the start of 2020, NMED approved a request for extension on January 16, 2020 for NASA to respond to 12 comments and submit a revised investigation report by February 3, 2020 (NMED, 2020b). NASA developed the required responses to the 12 comments in NMED's June 5, *2019 Disapproval 200 Area and 600 Area Vapor Intrusion Assessment Report* (NMED, 2019b) and submitted the *NMED Disapproval Response for 200 Area and 600 Area Vapor Intrusion Assessment Report* on January 30, 2020 (NASA, 2020b). NMED disapproved the report on September 20, 2022 and directed NASA to address three multipart comments and submit a revised report no later than April 28, 2023 (NMED, 2022m). NASA addressed NMED's three multipart comments in their disapproval and submitted the *Response to Second Disapproval 200 and 600 Area Vapor Intrusion Assessment Report* on April 27, 2023 (NASA, 2023m). NMED approved the revised report with modifications on April 18, 2024 (NMED, 2024g). NMED directed NASA to address four comments and submit a revised report no later than July 31, 2024. NASA submitted the *Response to Approval with Modifications for the 200 and 600 Area Vapor Intrusion Assessment Report (VIAR)* on July 19, 2024 (NASA, 2024l). NMED's April 18, 2024 approval also included direction for NASA to prepare a follow-on soil vapor monitoring plan for the 200 and 600 Areas and provide it for NMED review no later than November 27, 2024. NASA submitted the follow-on *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP)* on November 16, 2024 (NASA, 2024hh) and the plan remained in NMED review during the first quarter of 2025.

2.2 300 Area

Work in the 300 Area is primarily related to investigation and closure of the adjacent 400 Area. Prior to 2020, NASA's May 30, 2019 *300 Area Supplemental Abbreviated Drilling Work Plan* (NASA, 2019e) was the first document submitted. NMED disapproved the work plan on March 19, 2021 (NMED, 2021f) and directed NASA to address four comments and submit a revised work plan no later than July 30, 2021. NASA submitted the *Response to Disapproval of 300 Area Supplemental Abbreviated Drilling Work Plan* on July 14, 2021 (NASA, 2021m). NMED approved the revised work plan on May 2, 2023 (NMED, 2023h). During the third quarter of 2023, NASA identified an opportunity to acquire additional subsurface data during the planned investigation and submitted the *Expanded Scope Proposed for the 300 Area Supplemental Abbreviated Drilling Work Plan (ADWP)* on September 11, 2023 (NASA, 2023aa). NMED approved the expanded scope on November 1, 2023 (NMED, 2023t).

NASA completed project planning for the installation of additional groundwater monitoring wells in the 300 Area Closures in accordance with the NMED-approved drilling work plan and initiated fieldwork in April 2024. In addition to the initial project scope, NASA planned to perform an NMED-approved matrix diffusion study at two boreholes in conjunction with heat pulse flow meter and optical televiewer logging.

NASA and the responsible drilling and matrix diffusion subcontractors began investigation fieldwork on April 8, 2024. NASA completed drilling, soil sampling, CORE DFN (matrix diffusion) sampling, and geophysical logging at the borehole for well 300-002-GSV. NASA installed the multiport soil vapor and groundwater monitoring (MSVGM) well 300-002-GSV in the borehole by May 7, 2024 in accordance with the approved plan. Following completion of well 300-002-GSV, equipment was mobilized to the second 300 Area drilling location and NASA performed drilling, soil sampling, CORE DFN sampling, and geophysical logging at the borehole for well 300-001-GSV. NASA installed MSVGM well 300-001-GSV by June 4, 2024 in accordance with the approved plan. This completed drilling and well installation work in the 300 Area and equipment was mobilized to the 400 Area. NASA drilled and installed groundwater monitoring well 400-001-GW (required by NMED to replaced failed groundwater monitoring well NASA 9) by June 18, 2024. On June 25, 2024, the drilling subcontractor mobilized well

development equipment and NASA completed development of groundwater monitoring wells 300-001-GSV, 300-002-GSV, and 400-001-GW by June 27, 2024. In the third quarter 2024, NASA performed sampling at three new monitoring wells in the 300 and 400 Areas. During the first quarter of 2025, NMED continued reviewing the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV* (NASA, 2024z) and the *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV* (NASA, 2024aa), which NASA submitted on October 3, 2024.

2.3 400 Area

Prior to 2020, NASA's last submittal for the 400 Area was the December 30, 2019 400 *Area Closure Investigation Report* (NASA, 2019p; revised). NMED disapproved report on March 19, 2021 (NMED, 2021g) and directed NASA to address 17 comments and submit a revised report no later than July 30, 2021. NASA submitted the *NASA WSTF 400 Area Closure Investigation Report – NMED Third Disapproval Response* on July 27, 2021 (NASA, 2021p, Response Table). NMED approved the third revision of the *NASA WSTF 400 Area Closure Investigation Report* with modifications on May 2, 2023 (NMED, 2023h). NASA addressed three NMED comments and submitted a revised report on July 11, 2023 (NASA, 2023t).

NASA also submitted the *400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* on May 29, 2019 (NASA, 2019c) and the related *300 Area Supplemental Abbreviated Drilling Work Plan* (NASA, 2019e) (see Section 2.2) for two additional multiport soil vapor and groundwater monitoring wells in the 300 Area. NMED disapproved the *400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* on March 15, 2021 (NMED, 2021e), and NMED directed NASA to address three comments and submit a revised monitoring plan no later than July 30, 2021. NASA submitted the *Response to Disapproval of 400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* on July 14, 2021 (NASA, 2021n, Response Table). NMED approved the revised *400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* with modifications on May 2, 2023 (NMED, 2023h). NASA addressed three NMED comments, prepared a revised monitoring plan, and submitted the *Response to Approval with Modifications 400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* on July 11, 2023 (NASA, 2023u).

NASA performed project planning to implement the NMED-approved *400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan* (NASA, 2023u). Required sample containers and related materials were acquired in January 2024 and NASA performed groundwater and soil vapor sampling in accordance with the approved plan on February 26-28, 2024. All samples were shipped to the subcontracted analytical laboratories. NASA received groundwater and soil vapor analytical data and continued preparation of the quarterly monitoring report for submittal to NMED. Due to other project constraints, NASA submitted the *Request for Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* on May 6, 2024 (NASA, 2024i). NMED approved the request on May 16, 2024, extending the due date for submittal of the report to July 30, 2024 (NMED, 2024i). Because of additional resource limitations, NASA submitted the *Request for Second Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* on July 22, 2024 (NASA, 2024o). NMED approved the request on July 31, 2024, extending the due date for submittal of the report to August 30, 2024 (NMED, 2024k). NASA submitted the *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* on August 30, 2024 (NASA, 2024u) and subsequently submitted the *Resubmittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024* on September 5, 2024 to resolve discrepancies between figures and tables in the report (NASA, 2024x).

NASA performed groundwater and soil vapor sampling for the second quarter of 2024 on May 28-30, 2024. Groundwater and soil vapor samples were shipped to the subcontracted analytical laboratories. NASA received and processed chemical analytical data from groundwater and soil vapor samples during the second and third quarters of 2024 and prepared the *NASA WSTF 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Second Quarter 2024*, which was submitted to NMED on November 26, 2024 (NASA, 2024jj).

NASA performed groundwater and soil vapor sampling for the third quarter of 2024 on August 26-28, 2024 and shipped the samples to the subcontracted analytical laboratories. NASA received chemical analytical data for these samples during the fourth quarter of 2024 and processed analytical data for inclusion in the *400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Third Quarter 2024*, which NASA provided for NMED review on February 25, 2025 (NASA, 2025c). Soil vapor samples from the initial monitoring event performed at wells 300-001-GSV and 300-002-GSV on December 12, 2024 exceeded 30-day holding times at the contracted analytical laboratory due to rolling power outages in California in January 2025. The wells were resampled on February 19, 2025 and NASA is receiving and reviewing analytical data in preparation for the fourth quarterly report, which is due to NMED by May 30, 2025.

2.4 600 Area Perched Groundwater Investigations

2.4.1 600 Area Perched Groundwater Extraction

NASA initiated extraction of perched groundwater from monitoring well 600-G-138 on April 19, 2013 in accordance with the NMED-approved *600 Area Perched Groundwater Extraction Pilot Test Work Plan* (NASA, 2012). NASA has continued to extract groundwater in accordance with the plan and submit updates in the quarterly Environmental Activity Reports and annual status reports. During the first quarter of 2025, NASA extracted 502 gallons of contaminated groundwater from well 600-G-138, bringing the total to 23,136 gallons removed since the project began. During the first quarter of 2025, NASA began preparing the interim status report for year 12 of the project. NASA also submitted the *PGEPT 2025 Transition to TMRP Reporting Proposal* for NMED review on February 19, 2025 (NASA, 2025b). The proposal recommends transitioning future 600 Area perched groundwater extraction reports into planned reports for Phase 2 of the pilot test for the Targeted Mobile Remediation Process. NMED is reviewing the proposal.

2.4.2 600 Area Perched Groundwater Investigation

At the start of 2020, a 600 Area Perched Groundwater investigation and report was scheduled in accordance with the *Abbreviated Investigation Work Plan for 600 Area Perched Groundwater* (NASA, 2016b). This work plan was subsequently changed per NASA's August 7, 2019 *Request to Remove Electrical Resistivity Component of the 600 Area Perched Groundwater Geophysical Survey based on Geophysical Subcontractor Input Received during the Procurement Process* (NASA, 2019i) and NMED's August 23, 2019 approval (NMED, 2019e).

In 2019, NASA performed a seismic reflection and reflection survey in accordance with the AIWP and work scope modification (NASA, 2019n). NASA provided the *Synopsis of the Findings of the 600 Area Closure Geophysical Seismic Refraction Tomography and Reflection Surveys with Revised Soil Boring Locations Submitted for NMED Approval* on December 19, 2019 (NASA, 2019o). Because of an indeterminate review period for that status report and the start of drilling dependent on approval of the boring locations recommended therein, NASA had submitted a *Request for Extension of Time for Submittal of the 600 Area Perched Groundwater Investigation Report* on March 24, 2020 (NASA, 2020d). NMED approved the extension on July 1, 2020 to 150 days after NMED provides comments (NMED, 2020e).

On December 22, 2020, NMED issued its *Approval with Modifications 600 Area Closure Geophysical Survey Status Report* (NMED, 2020l) and established a due date for the 600 Area Perched Groundwater Investigation Report of December 31, 2021. On May 18, 2021, NASA provided the *Response to NMED Approval with Modifications for the 600 Area Closure Geophysical Survey Status Report – Comment 2 (Further Investigation)* (NASA, 2021g) in which NASA proposed a different approach for collection of geophysical data up- and down-gradient of the 600 Area Closure. The accuracy of the 600 Area geophysical survey would be assessed by comparing the actual bedrock depths from six NMED-approved perched groundwater investigation borings to the predicted depths from the geophysical survey before expanding the geophysical survey. NMED concurred with the approach on July 6, 2021 (NMED, 2021k). During the remainder of 2021, NASA performed planning and procurement activities in preparation for investigation fieldwork, which was initiated in January 2022.

NASA suspended extraction of perched groundwater from monitoring well 600-G-138 for much of January 2022 to reduce the impact on the perched groundwater aquifer and maximize the potential of locating perched groundwater during the perched groundwater investigation. NASA completed soil boring installation field activities for the perched groundwater investigation in accordance with NMED's *Approval with Modifications 600 Area Closure Geophysical Survey Status Report* (NMED, 2020m). The off-site subcontract drilling company installed all six soil borings between January 4 and January 27, 2022 in the vicinity of the 600 Area Closure to depths of approximately 145 to 180 feet bgs. The soil borings were located in potential bedrock lows identified using the geophysical seismic survey performed previously as part of the investigation. The soil borings transcended the alluvial overburden into the top of the andesite bedrock in search of perched groundwater on the alluvial-bedrock interface. NASA identified perched groundwater at one location adjacent to the north corner of the Closure and installed groundwater well 600A-001-GW. NASA also installed a conventional monitoring well 600A-002-GW downgradient to the west of the Closure in andesite bedrock. This boring encountered the deeper fractured bedrock aquifer at the projected total depth of the soil boring and was subsequently drilled deeper than the planned depth to facilitate installation of the groundwater monitoring well. The remaining four soil borings did not encounter perched groundwater and were plugged and abandoned in accordance with the NMED-approved work plan. NASA performed colloidal borescope evaluations at the two new wells 600A-001-GW and 600A-002-GW, existing perched groundwater monitoring well 600-G-138, and 12 other conventional wells in the fractured bedrock aquifer with significant locations relative to the evaluation of regional flow.

NASA developed new conventional monitoring wells 600A-001-GW and 600A-002-GW, and in May 2022, NASA performed initial sampling in accordance with the current NMED-approved Groundwater Monitoring Plan. NASA prepared and submitted the *Request for a "Contained-in" Determination for Contaminated Media Associated with the 600 Area Perched Groundwater Abbreviated Investigation Work Plan* on March 22, 2022 (NASA, 2022d). NMED approved the request and granted a "*no longer contained in determination*" on April 18, 2022 (NMED, 2022d). NASA prepared and submitted the *600 Area Perched Groundwater Investigation Report* on June 29, 2022 (NASA, 2022h) and provided the fee for review of the report on August 9, 2022 (NASA, 2022k). NASA shipped the soil cuttings generated from the drilling activities off-site on June 15, 2022 for disposal as solid waste. NASA suspended regularly scheduled sampling of wells 600A-001-GW and 600A-002-GW in December 2022 because of equipment failure. NASA obtained replacement sampling equipment in December 2022 for use in January 2023. Upon further evaluation, NASA determined that previous development of these wells using on-site equipment after colloidal borescope tests may have been inadequate. NASA acquired the services of an off-site subcontractor to perform additional development at these wells prior to sampling and scheduled development work for October 2023. The subcontractor performed some development work, but additional developing with site-specific equipment was required. During the first quarter of 2024, NASA obtained, configured, and tested well development equipment and initiated the additional development of

wells 600A-001-GW and 600A-002-GW. NASA completed final development of the two wells and performed initial sampling in June 2024.

NMED approved the *600 Area Perched Groundwater Investigation Report* (June 29, 2022) with modifications on June 29, 2023 (NMED, 2023u). NMED directed NASA to address five comments and submit a revised report no later than August 31, 2023. NASA submitted the *Response to Approval with Modifications 600 Area Perched Groundwater Investigation Report* on August 30, 2023 (NASA, 2023z). In the Approval with Modifications, NMED also directed NASA to develop a work plan for additional investigation of perched groundwater in the 600 Area and submit it for NMED review no later than November 30, 2023. NASA submitted the *600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan* on November 27, 2023 (NASA, 2023ii). NASA received NMED's January 10, 2024 fee assessment for review of the work plan (NMED, 2024b) and provided the $15,000 review fee on February 5, 2024 (NASA, 2024b). NMED approved the work plan on November 5, 2024 (NMED, 2024o). NASA recommended an alternate schedule for performing Phase 2 of 600 Area perched groundwater investigation in Table 2.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 2, page 6). NMED directed NASA to submit a request for extension of time for submittal of the final investigation report (NMED, 2025). Late in the first quarter of 2025, NASA began project planning for Phase 2a of the investigation.

2.5 SWMUs 2, 8, and 34 and Area of Concern (AOC) 51 (Wastewater Lagoons)

2.5.1 100 Area Lagoons

On May 29, 2019, NASA submitted the *NASA WSTF (White Sands Test Facility) 100 Area Wastewater Lagoons Closure (SWMU 2) Interim Status Report* (NASA, 2019d). NMED responded to that report on May 14, 2020 (NMED, 2020d) and informed NASA that comments would be incorporated into the SWMU 2 Investigation Report. NASA submitted the *NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report on* August 3, 2020 (NASA, 2020h). NMED disapproved the report on July 5, 2022 (NMED, 2022i) and directed NASA to provide a revised report no later than January 31, 2023.

After completing investigation fieldwork at the 200 Area lagoons in February 2023, NASA and the subcontracted drilling company moved drilling equipment to the 100 Area lagoons. In late February and March 2023, NASA completed the installation of all required soil borings at the 100 Area lagoons. The required soil samples were collected at each boring and submitted to the off-site laboratories for analysis. During the first quarter of 2023, NASA began reviewing chemical analytical data in preparation for revising the disapproved investigation reports. To provide sufficient time to complete data review and preparation of the revised investigation report, NASA submitted the *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval* on January 18, 2023 (NASA, 2023a). NMED approved the request on May 23, 2023, extending the due date for submittal of the report to August 31, 2023 (NMED, 2023l). Because of unexpected project delays, NASA submitted the *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval* on August 3, 2023 (NASA, 2023v). Additional delays resulted in NASA's submittal of the *Request for Fourth Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval* on October 11, 2023 (NASA, 2023dd). NMED approved the request on November 1, 2023 (NMED, 2023u), extending the due date for submittal of the report to March 24, 2024. NASA submitted the *Request for Fifth Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval* on February 28, 2024

(NASA, 2024d). NMED approved the request on March 22, 2024 (NMED, 2024f), extending the due date for submittal of the report to August 30, 2024. NASA completed revising the report and performed the required health risk assessment during the third quarter of 2024. NASA submitted the *Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report* on August 29, 2024 (NASA, 2024t). NMED continued reviewing the revised report during the first quarter of 2025.

2.5.2 200 Area Lagoons

NASA submitted the *NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* to NMED on November 25, 2019 (NASA, 2019m). NMED disapproved the report on June 6, 2022 (NMED, 2022g) and directed NASA to provide a revised report no later than December 30, 2022. NASA prepared and submitted the *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval* on December 8, 2022 (NASA, 2022m), requesting the due date for submittal of the revised report be extended to March 30, 2023.

In February 2023, NASA and the subcontracted drilling company completed the nine soil borings at the 200 Area lagoons then decontaminated tooling and moved drilling equipment to the 100 Area lagoons. All samples were submitted to the off-site laboratories for analysis. During the first quarter of 2023, NASA began reviewing chemical analytical data in preparation for revising the disapproved investigation report. To provide sufficient time to complete data review and preparation of the revised investigation report, NASA submitted the *Request for Second Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval* on March 8, 2023 (NASA, 2023e). NMED approved the request on March 30, 2023, extending the due date for submittal of the report to August 31, 2023 (NMED, 2023e). Because of unexpected project delays, NASA submitted the *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval* on August 24, 2023 (NASA, 2023x). NMED approved the request on September 14, 2023 (NMED, 2023o), extending the due date for submittal of the revised report to December 5, 2023. Additional delays resulted in NASA's submittal of the *Request for Fourth Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval* on November 22, 2023 (NASA, 2023hh). NMED approved the request on January 9, 2024 (NMED, 2024a), extending the due date for submittal of the report to April 30, 2024. NASA revised the investigation report for the 200 wastewater lagoons (SWMU 8) and submitted the *Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* on April 29, 2024 (NASA, 2024h). NASA subsequently submitted the *Quality Assurance Reports for the Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report* on May 29, 2024 (NASA, 2024k). NMED continued reviewing these reports during the first quarter of 2025.

2.5.3 600 Area Lagoons

NASA submitted the *NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report* to NMED on November 26, 2019 (NASA, 20190). NMED disapproved the report on June 16, 2022 (NMED, 2022h). NASA prepared and submitted the *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval* on December 8, 2022 (NASA, 2022n), requesting the due date for submittal of the revised report be extended to March 30, 2023.

In January 2023, NASA mobilized the subcontracted drilling company to WSTF and initiated the installation of soil borings and monitoring wells in accordance with the plan. NASA completed soil boring 600L-SB-28 at a location topographically and hydrogeologically downgradient from the 600 Area wastewater lagoons. NASA collected the required soil samples from the boring, which intercepted perched groundwater at approximately 151 ft below ground surface. NASA installed a groundwater monitoring well in the borehole and monitored groundwater as it recovered to approximately 145 ft below ground surface. In January and February 2023, NASA completed the installation and sampling of all required soil borings within the 600 Area wastewater lagoon. All samples were submitted to the off-site laboratories for analysis. During the first quarter of 2023, NASA began reviewing chemical analytical data in preparation for revising the disapproved investigation reports. To provide sufficient time to complete data review and preparation of the revised investigation report, NASA submitted the *Request for Second Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval* on March 8, 2023 (NASA, 2023f). NMED approved the request on March 30, 2023, extending the due date for submittal of the report to August 31, 2023 (NMED, 2023f). Because of unexpected project delays, NASA submitted the *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval* on August 3, 2023 (NASA, 2023w). NMED approved the request on August 17, 2023 (NMED, 2023n), extending the due date for submittal of the revised report to October 17, 2023. Additional delays resulted in NASA's submittal of the *Request for Fourth Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response* to Disapproval on October 11, 2023 (NASA, 2023ee). NMED approved the request on November 25, 2023, extending the due date for submittal of the report to February 22, 2024 (NMED, 2023r). NASA submitted the *Response to Disapproval of 600 Area Lagoons (SWMU 34) IR and Risk Assessment* on February 21, 2024 (NASA, 2024c). NMED disapproved the revised report on December 9, 2024 (NMED, 2024p). NMED directed NASA to address 18 comprehensive comments and provide a revised report no later than March 31, 2025. NASA submitted the *Response to Second Disapproval of the NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report* on March 28, 2025 (NASA, 2025d).

2.5.4 STGT Lagoons

In February 2020, NASA and a subcontracted drilling company completed installation of the five remaining soil borings at the Second Tracking and Data Relay Satellite Ground Terminal (STGT) Wastewater Lagoons. NASA collected and managed samples of subsurface soil and shipped them to the off-site laboratories for analysis. This activity completed soil sampling described in the NMED-approved work plan. NASA conducted soil vapor sampling at the STGT Wastewater Lagoons in March 2020. This completed all investigation fieldwork described in the NMED-approved work plan. *NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report* on October 13, 2020 (NASA, 2020m, p42). NMED disapproved the report on July 25, 2022 (NMED, 2022j) and directed NASA to submit a revised report no later than February 28, 2023.

After completing the drilling and soil sampling at the 100 Area lagoons in early March 2022, NASA and the subcontracted drilling company decontaminated all downhole drilling tools, moved operations to the STGT Area lagoons, and completed the seven soil borings for these lagoons. All drilling equipment and tooling were decontaminated, and the subcontracted drilling company demobilized from WSTF on March 23, 2023. The required soil samples were collected at each boring and submitted to the off-site laboratories for analysis. During the first quarter of 2023, NASA began reviewing chemical analytical data in preparation for revising the disapproved investigation reports. To provide sufficient time to complete data review and preparation of the revised investigation report, NASA submitted the *Request for Extension of Time for NASA White Sands Test Facility (WSTF) Second Tracking and Data Relay Satellite Ground Terminal (STGT) Wastewater Lagoons Closure (Area of Concern [AOC] 51) Investigation*

Report Response to Disapproval on January 18, 2023 (NASA, 2023b). NMED approved the request on May 10, 2023, extending the due date for submittal of the report to August 31, 2023 (NMED, 2023j). Because of unexpected project delays, NASA submitted the *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) Second Tracking and Data Relay Satellite Ground Terminal (STGT) Wastewater Lagoons Closure (Area of Concern [AOC] 51) Investigation Report Response to Disapproval* on August 24, 2023 (NASA, 2023y). NMED approved the request on September 14, 2023 (NMED, 2023o), extending the due date for submittal of the revised report to November 21, 2023. NASA submitted the *Response to Disapproval of NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report* on November 20, 2023 (NASA, 2023gg). NMED approved the report with modifications on September 3, 2024 (NMED, 2024n). NMED directed NASA to address five comments and submit a revised report no later than November 21, 2024. NASA submitted the *Response to Approval w/Mods for STGT Wastewater Lagoons (AOC 51) IR* on September 9, 2024 (NASA, 2024y). As indicated in the NMED-approved investigation report, no further investigation work is required at AOC 51. The unit is expected to be included in an upcoming petition for corrective action complete status determination.

2.6 SWMU 10 (200 Area Hazardous Waste Transmission Lines)

NASA provided the *Response to Disapproval of the NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report* to NMED on July 30, 2019 (NASA, 2019h). On November 16, 2020, NMED disapproved the revised report (NMED, 2020j) and directed NASA to address 16 comments and perform resampling along the hazardous waste transmission lines (HWTL) by August 30, 2021. On May 19, 2021, NASA requested that the due date for submittal of a revised report be extended from August 30, 2021 to November 30, 2021 (NASA, 2021i). NMED approved this extension on July 6, 2021 (NMED, 2021l). NASA completed the collection of replacement soil samples for the analysis of volatile organic compounds along the HWTL on August 31, 2021. NASA installed 12 soil vapor implants at the sampling locations nearest the 200 Area occupied buildings and collected soil vapor samples using 1-liter SUMMA canisters on September 23, 2021. Due to drilling and laboratory contractor backlogs related to the COVID pandemic, on September 14, 2021, NASA requested a second extension to submit the revised IR by January 31, 2022 (NASA, 2021t). NMED approved the request on January 25, 2022 (NMED, 2022b), extending the due date for submittal of the report to February 28, 2022. On November 1, 2023, NMED approved the *Response* to *Second Disapproval of NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report and Risk Assessment Report* (March 4, 2022) (NASA, 2022a) and the *Response to Second Disapproval of NASA WSTF 200 Area HWTL (SWMU 10) IR Risk Assessment Report* (March 4, 2022) (NASA, 2022b) with modifications. NMED directed NASA to address 15 comments and submit a revised report no later than December 31, 2023 (NMED, 2023v). NASA submitted the *Response to Approval with Modifications of the NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report and Risk Assessment Report* on December 27, 2023 (NASA, 2023kk). As indicated in that submittal, no further investigation work is required at SWMU 10. The unit is expected to be included in an upcoming petition for corrective action complete status determination.

2.7 SWMU 16 (600 Area Bureau of Land Management [BLM] Off-Site Soil Pile)

Preliminary investigation fieldwork was performed at the 600 Area BLM Off-Site Soil Pile in November and December 2015. NASA submitted the *NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile) Investigation Report* on February 25, 2016 (NASA, 2016a). NMED disapproved three revisions of the report prior to 2020. NMED provided the *Approval with Modifications 600 Area Bureau of Land Management Off-Site Soil Pile (SWMU 16) Revised Investigation Report* on May 6, 2021 (NMED, 2021i). The Approval with Modifications required submittal of an Accelerated Corrective Measures work plan no later than September 30, 2021. NASA submitted the *Response to Approval with Modifications of NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile) Investigation Report* on July 20, 2021 (NASA,

2021o) and then submitted the *Accelerated Corrective Measures Work Plan for the NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile)* on September 28, 2021 (NASA, 2021u, p9). NMED approved the *Accelerated Corrective Measures Work Plan for the NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile)* with modifications on February 10, 2023 (NMED, 2023b). NMED directed NASA to address two NMED comments and submit a revised work plan no later than May 31, 2023. NMED also directed NASA to perform the investigation and submit an investigation work plan no later than July 31, 2024. NASA submitted the *Response to Approval with Modifications of the Accelerated Corrective Measures Work Plan for the NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile)* on May 22, 2023 (NASA, 2023p).

NASA finalized project planning and procurement activities in early January 2024 and mobilized the off-site excavation subcontractor to WSTF on January 15, 2024. NASA and the responsible subcontractors completed excavation and removal of potentially contaminated sludge and soil in accordance with the NMED-approved *Accelerated Corrective Measures Work Plan for the NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile)* (NASA, 2023p) on January 25, 2024. During the project, NASA excavated and disposed of 1,140 yd^3 (1,081 tons) of soil, including the over-excavation of 6" of native soil from beneath the sludge pile to ensure complete contaminant removal. The sludge and soil were transported to the Corralitos Landfill for disposal as special waste. NASA collected confirmation soil samples and shipped them to the off-site laboratory for analysis. Analytical data from these samples will be used to determine if additional soil removal will be necessary. Late in the first quarter of 2024, NASA began preparing the Remedy Completion Report. NASA continued that report preparation work in the second and third quarters of 2024. Because of continuing complications with the legacy data management system, complete processing of chemical analytical data, and the resulting data validation and risk assessment, is delayed. As a result, NASA submitted the *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Bureau of Land Management Off-site Soil Pile (SWMU 16) Remedy Completion Report* on July 22, 2024 (NASA, 2024m). NMED approved the request on July 31, 2024, extending the due date for submittal of the report to November 30, 2024 (NMED, 2024l). NASA submitted the *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation* on November 19, 2024 (NASA, 2024ee). NMED review of the report continued in the first quarter of 2025.

2.8 SWMUs 18–20 (700 Area High Energy Blast Facility, 800 Area Below Grade Storage Tank, and 800 Area Oxidizer Burner)

NMED reviewed the *Response to Disapproval of Revised SWMU 19 (800 Area Below Grade Storage Tank) Investigation Report* (NASA, 2019f) and issued the *Approval with Modifications Revised 800 Area Below Grade Storage Tank (SWMU 19) Investigation Report* on August 27, 2020 (NMED, 2020h).

2.9 SWMUs 21–27 (Septic Tanks)

NMED disapproved NASA's July 23, 2019, *Response to Disapproval of NASA WSTF Septic Tanks (SWMUs 21-27) Investigation Report* (NASA, 2019g, the revised IR) on January 29, 2021 and directed NASA to address six comments no later than May 30, 2021 (NMED 2021c). NASA addressed the six comments and submitted the *Response to Second Disapproval of NASA White Sands Test Facility (WSTF) Septic Tanks (SWMUs 21–27) Investigation Report* on May 18, 2021 (NASA, 2021h, Response Table). NMED approved the revised *NASA White Sands Test Facility (WSTF) Septic Tanks (SWMUs 21-27) Investigation Report* on March 16, 2023 (NMED, 2023d) and directed NASA to address two comments and submit a revised report no later than June 16, 2023. NASA submitted the *Response to Approval with Modifications Revised WSTF Septic Tanks (SWMUs 21-27) Investigation Report* on June 15, 2023 (NASA, 2023r).

Based on that approval and subsequent communication with NMED, NASA determined that corrective action is complete at these units and plans no additional investigation work. NASA submitted the *NASA White Sands Test Facility Petition for Corrective Action Status Review* on April 4, 2024 (NASA, 2024f). NMED reviewed the petition and issued the *Administratively Incomplete Determination* on September 3, 2024 (NMED, 2024n). In that determination, NMED directed NASA to address eight comments and submit a revised petition no later than October 31, 2024. NASA addressed eight NMED comments and submitted the *Response to Administratively Incomplete Determination Petition for Corrective Action Status Review White Sands Test Facility SWMUs 21-27, 30, and 31* on October 23, 2024 (NASA, 2024dd).

NASA distributed the *Public Neighbor Letter for Class 3 Permit Modification* (NASA, 2024bb) to entities on the facility mailing list on October 17, 2024. NASA published the required advertisement (public notice) in the Las Cruces Bulletin on October 18, 2024 and posted the required public notices at the Branigan Library in Las Cruces and on signs at WSTF on October 20, 2024. NASA then scheduled and hosted the required public meeting on November 13, 2024 at the Branigan Library in Las Cruces. No members of the public attended the meeting. NASA submitted the *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit* on November 21, 2024 (NASA, 2024bb). NMED continued reviewing the permit modification request during the first quarter of 2025.

2.10 SWMUs 29-31 (Small Arms Firing Ranges)

Leading up to 2020, NASA completed additional fieldwork required to respond to NMED's February 21, 2019, *Second Disapproval of Small Arms Firing Ranges (SWMUs 29-31) Remedy Completion Report.* NMED (NMED, 2019a) approved NASA's October 28, 2019 request to extend the due date for submittal of the disapproval response and revised remedy completion report from December 31, 2019 to February 28, 2020 (NASA, 2019k). NASA determined that additional time was required to complete the planned human and ecological health risk assessment for the three SWMUs and submitted the *Second Request for Extension of Time for NASA WSTF Small Arms Firing Ranges (SWMUs 29-31) Response to Second Disapproval Remedy Completion Report* on January 29, 2020 (NASA, 2020a). NMED approved the request on March 21, 2020 (NMED, 2020c), extending the due date for submittal of the report from February 28, 2020 to April 24, 2020. NASA prepared the response to NMED's February 21, 2019 *Second Disapproval of Small Arms Firing Ranges (SWMUs 29–31) Remedy Completion Report* (March 30, 2018) and submitted the *Response to Second Disapproval Small Arms Firing Ranges (SWMUs 29-31) Remedy Completion Report and Risk Assessment Report* on August 3, 2020 (NASA, 2020i). NMED approved the reports on November 16, 2022 with modifications (NMED, 2022q) and directed NASA to address six comments and submit revised reports no later than January 31, 2023. NASA addressed NMED's comments and submitted the *Response to Approval w/Mods – Revised Small Arms Firing Range (SWMUs 29-31) RCR* on January 27, 2023 (NASA, 2023d).

NASA determined that corrective action is complete at these units and plans no additional investigation work. NASA submitted the *NASA White Sands Test Facility Petition for Corrective Action Status Review* on April 4, 2024 (NASA, 2024f). NMED reviewed the petition and issued the *Administratively Incomplete Determination* on September 3, 2024 (NMED, 2024n). In that determination, NMED directed NASA to address eight comments and submit a revised petition no later than October 31, 2024. NASA addressed eight NMED comments and submitted the *Response to Administratively Incomplete Determination Petition for Corrective Action Status Review White Sands Test Facility SWMUs 21-27, 30, and 31* on October 23, 2024 (NASA, 2024cc).

NASA distributed the *Public Neighbor Letter for Class 3 Permit Modification* (NASA, 2024gg) to entities on the facility mailing list on October 17, 2024. NASA published the required advertisement (public notice) in the Las Cruces Bulletin on October 18, 2024 and posted the required public notices at

the Branigan Library in Las Cruces and on signs at WSTF on October 20, 2024. NASA then scheduled and hosted the required public meeting on November 13, 2024 at the Branigan Library in Las Cruces. No members of the public attended the meeting. NASA submitted the *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit* on November 21, 2024 (NASA, 2024gg). NMED continued reviewing the permit modification request during the first quarter of 2025.

Corrective action complete work at SWMU 29, collocated with the STGT wastewater lagoon (AOC 51) was on hold pending NMED approval of the revised lagoon investigation report that concluded no additional investigation or corrective action is required. Following NMED approval of the revised *NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report* on September 3, 2024, NASA determined that the STGT small arms firing range (SWMU 29) will be included in NASA's next Class 3 Permit modification request for corrective action complete status determination.

2.11 SWMU 33 (300 Area Test Stand 302 Cooling Water Pond)

Anticipating closure of Test Stand 302 apart from a full closure, NASA submitted the *NASA White Sands Test Facility (WSTF)300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan (IWP) and Historical Information Summary (HIS)* (NASA, 2020j) on August 17, 2020. NMED disapproved the work plan on May 9, 2022 (NMED, 2022e). NMED directed NASA to address the comments and submit a revised work plan no later than September 15, 2022. NASA addressed NMED's 13 comments and submitted the *Response to Disapproval of NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan (IWP) and Historical Information Summary (HIS)* on September 14, 2022 (NASA, 2022k). NMED approved the *Response to Disapproval of NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) IWP and HIS* (September 14, 2022) with modifications on January 19, 2024 (NMED, 202c). NMED directed NASA to address five comments and submit a revised work plan no later than April 30, 2024. NASA submitted the *Response to Approval with Modifications for the NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan and Historical Information Summary* on April 26, 2024 (NASA, 2024g). Project planning was suspended in the fourth quarter 2024. NASA proposed an alternate investigation schedule for SWMU 33 in Table 2.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 2, page 9). NMED directed NASA to submit a request for extension of time for submittal of the final investigation report (NMED, 2025).

2.12 SWMU 47 (500 Area Fuel Storage Area)

NASA submitted the 500 Area Fuel Storage (SWMU 47) Investigation Work Plan on September 26, 2018 (NASA, 2018). NMED disapproved the work plan on August 8, 2019 (NMED, 2019d) and directed NASA to address 14 comments and submit a revised work plan by November 25, 2019. NASA submitted the *Response to Disapproval of 500 Area (SWMU 47) Investigation Work Plan* on November 21, 2019 (NASA, 2019l). NMED disapproved the revised work plan on March 19, 2021 and directed NASA to address five comments and submit a revised IWP no later than July 31, 2021 (NMED, 2021h). NASA addressed NMED's comments and submitted the *Response to Second Disapproval of 500 Area Fuel Storage (SWMU 47) Investigation Work Plan* on June 29, 2021 (NASA, 2021l, Response Table). NMED approved the revised work plan with modifications on March 1, 2023 (NMED, 2023c) and directed NASA to address three NMED comments and submit a revised work plan no later than May 31, 2023. NMED also directed NASA to perform the first phase of the investigation and provide an investigation report for NMED review no later than November 30, 2024. NASA submitted the *Response to Approval with Modifications 500 Area Fuel Storage (SWMU 47) Investigation Work Plan: Phase I* on May 22,

2023 (NASA, 2023o). Due to scheduling conflicts and personnel safety issues presented by ongoing testing in the 500 Area, NASA submitted the *Request for NMED Concurrence to Submit Permit Modification for the 500 Area Fuel Storage Area (SWMU 47)* on July 10, 2023 (NASA, 2023s). In the request, NASA recommended that further investigation of SWMU 47 in the 500 Area be postponed until the Fuel Storage Area is permanently closed and fully accessible for investigation fieldwork. NMED denied the request on October 31, 2023 (NMED, 2023s), but authorized NASA to postpone investigation fieldwork until the SWMU can be safely accessed.

2.13 SWMU 49 (700 Area Landfill)

NASA submitted the *NASA White Sands Test Facility (WSTF) SWMU 49 (700 Area Landfill) Phase I Investigation Work Plan (IWP) and Historical Information Summary (HIS)* on December 28, 2017 (NASA, 2017). NMED disapproved the work plan (NMED, 2018) and directed NASA to address eight comments and submit a revised work plan by May 31, 2019. NASA submitted the *Response to NMED Disapproval SWMU 49 (700 Area Landfill) Phase I Investigation Work Plan and Historical Information Summary* on March 28, 2019 (NASA, 2019b). NMED approved the work plan with modification on June 6, 2019 (NMED, 2019c). The planned investigation includes Phase 1A and Phase 1B soil vapor sampling and surface geophysics. In November 2019 and December 2019, NASA deployed 159 passive soil vapor samplers and completed the Phase 1A soil vapor survey. NASA and the subcontracted geophysics firm performed the EMI and magnetic gradient field surveys between February 24 and 28, 2020.

Because of project delays created by the COVID-19 pandemic, NASA submitted a *Request for Extension of Time for Submittal of the SWMU 49 (700 Area Landfill) Phase I Investigation Report* on May 4, 2020 (NASA, 2020e). NMED approved the request on July 1, 2020 (NMED, 2020f), extending the date for submittal of the Phase 1 investigation report to March 31, 2021. Meanwhile, NASA completed procurement of the ground penetrating radar and passive seismic surveys as described in the NMED-approved landfill investigation work plan. Due to the ongoing pandemic, NASA submitted a *Second Request for Extension of Time for Submittal of the SWMU 49 (700 Area Landfill) Phase I Investigation Report* on February 3, 2021 (NASA, 2021b). NMED approved the request on March 15, 2021 (NMED, 2021d), extending the due date for submittal of the Phase 1 investigation report to April 29, 2022. NMED approved the *700 Area Landfill Closure (SWMU 49) Phase I Investigation Report* on February 10, 2023 (NMED, 2023a) and directed NASA to provide a Phase II work plan no later than October 31, 2023. NASA submitted the *700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan* on October 25, 2023 (NASA, 2023ff). On July 31, 2024, NMED approved the work plan with modifications (NMED, 2024m) and directed NASA to address two comments and submit a revised work plan no later than October 31, 2024. NASA submitted the *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan* on October 30, 2024 (NASA, 2024dd). In Table 2.1 of the *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule* (NASA, 2024kk; Enclosure 2, page 3), NASA proposed an alternate schedule for performing the second phase of SWMU 49 investigation work. NMED directed NASA to submit a request for extension of time for submittal of the final investigation report (NMED, 2025).

2.14 SWMU 50 (First TDRSS Diesel Release)

NASA submitted the *First Tracking Data Relay Satellite System (TDRSS) Diesel Release (SWMU 50) Investigation Report* on March 14, 2019 (NASA, 2019a). NMED disapproved the report on July 8, 2020 (NMED, 2020g) and directed NASA to address 17 NMED comments and submit a revised report no later than October 30, 2020. NASA submitted the *Response to Disapproval of First Tracking Data Relay Satellite System (TDRSS) Diesel Release (SWMU 50) Investigation Report and Risk Screen Evaluation Report* on November 9, 2020 (NASA, 2020n). NMED approved the reports on November 16, 2022 with

modifications (NMED, 2022p) and directed NASA to address seven comments and submit revised reports no later than January 31, 2023. NASA addressed NMED's seven comments and submitted the *Response to Approval with Modification of First Tracking Data Relay Satellite System (TDRSS) Diesel Release (SWMU 50) Investigation Report* on January 26, 2023 (NASA, 2023c). No further investigation is planned at this SWMU for the foreseeable future.

2.15 SWMU 52 (Second TDRSS UST)

On August 11, 2020, NASA discovered a diesel fuel leak in the area of the SWMU 52 Underground Storage Tank (UST), which is located north of WSTF at the White Sands Complex. NASA initiated a preliminary investigation and confirmed that the leak originated from a puncture in the return fuel line between emergency generator and the UST. NASA informed the NMED HWB of the release via email on August 13, 2020 and in writing in the August 17, 2020 *NASA White Sands Test Facility Hazardous Waste Operating Permit SWMU 52 Incident Notification* (NASA, 2020k). NASA submitted the *Second TDRSS Underground Storage Tank (SWMU 52) Release Assessment Report* to NMED HWB on February 18, 2021 (NASA, 2021c).

Parallel activities were performed with notifications and approvals provided to the NMED Petroleum Storage Tank Bureau (PSTB). During August and September 2020, White Sands Complex personnel coordinated corrective action for this release through the NMED PSTB. On September 21, 2020, NASA submitted the *NASA White Sands Test Facility Hazardous Waste Operating Permit SWMU 52 Incident Update* (NASA, 2020l. p7). The update summarized corrective action performed to date, including the removal of 32 cubic yards ($yd^{3)}$ of diesel-contaminated soil from the area of the leak. NASA then submitted the *Second TDRSS UST Minimum Site Assessment Work Plan* (NASA, 2020o) to the PSTB on November 18, 2020. The work plan described an investigation to determine the extent and magnitude of soil contamination caused by the diesel release. On February 4, 2021 (NMED PSTB, 2021), the NMED PSTB approved NASA's *Second TDRSS UST Minimum Site Assessment Work Plan* of November 18, 2020 (NASA, 2020o, pp3-6). NASA submitted the *Second TDRSS UST Minimum Site Assessment Report* to the NMED PSTB on June 25, 2021 (NASA, 2021j). The HWB was copied. The work conducted for the investigation and report had been under a PSTB-approved Minimum Site Investigation Work Plan (NMED, 2021c).

In December 2020, NASA completed shipping the remaining petroleum contaminated soil previously removed from the release location soil to the Valencia Regional Landfill and Recycling Facility for bioremediation and disposal. In total, approximately 214 yd^3 of contaminated soil was removed from the release area. NASA drilled five boreholes for characterization of the release from March 22 through March 26, 2021 in accordance with the work plan.

The NMED HWB disapproved the *Second TDRSS UST Minimum Site Assessment Report* on March 1, 2022 and directed NASA to address four NMED comments and submit a revised report no later than May 6, 2022 (NMED, 2022c). NASA submitted the *Response to Disapproval of NASA WSTF Second TDRSS Underground Storage Tank (SWMU 52) Release Assessment Report* on April 26, 2022 (NASA, 2022f). NMED approved the report with a modification on August 8, 2022 (NMED, 2022l). An additional submittal was not required.

2.16 SWMU 54 (500 Area Former Oxidizer Burner)

NASA identified the location of a former 500 Area oxidizer as a potential new SWMU. On October 16, 2019, NASA submitted the *Fifteen-Day Notification of a Newly Identified SWMU within the WSTF 500 Area* (NASA, 2019j). NMED acknowledged receipt of NASA's fifteen-day notification on November 13, 2019 (NMED, 2019f) and directed NASA to provide a Release Assessment Report no later than May 29,

2020. NASA researched historical information on the newly identified SWMU and submitted the *500 Area Newly Identified SMWU Release Assessment Report* on June 22, 2020 (NASA, 2020g, p4). NMED approved the report on December 20, 2021 and directed NASA to prepare and submit an investigation work plan for the unit no later than August 31, 2022 (NMED, 2021o). NASA completed preparation of the historical investigation summary and investigation work plan for the former oxidizer burner in the 500 Area. The unit will be identified as a SWMU in the Permit at an appropriate time. NASA submitted the *500 Area Former Oxidizer Burner (FOB) Investigation Work Plan (IWP) and Historical Information Summary (HIS)* on August 25, 2022 (NASA, 2022j). NMED approved the work plan with modifications on November 1, 2023 (NMED, 2023w). NMED directed NASA to address five comments and submit a revised work plan no later than December 29, 2023 (NMED, 2023w). NASA submitted the *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (FOB) Investigation Work Plan (IWP) and Historical Information Summary (HIS)* on December 21, 2023 (NASA, 2023jj).

NASA submitted the *Notice of a Class 1 Permit Modification Request for the NASA White Sands Test Facility (WSTF) Hazardous Waste Permit No. NM8800019434* on October 4, 2022 (NASA, 2022l), which notified NMED of a modification to the Permit by adding the FOB as SWMU 54. On November 15, 2022, NMED notified NASA that the unit had been added to the Permit as SWMU 54 and that the change would be fully addressed in the upcoming Permit renewal (NMED, 2022o). The unit is identified as SWMU 54 in the 2023 RCRA Permit (NMED, 2023g).

During the first quarter of 2024, NASA began planning investigation fieldwork to be performed in accordance with the NMED-approved *NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (FOB) Investigation Work Plan (IWP) and Historical Information Summary (HIS)* (NASA, 2023ii). NASA completed project planning to perform the investigation in accordance with the work plan and completed procurements for the required soil boring and analytical support subcontractors. The subcontractor drilling company mobilized to WSTF on April 30, 2024 and NASA performed shallow soil sampling at 11 borings and shipped samples to the off-site laboratory for analysis. NASA received analytical from the off-site laboratory and began prepared the investigation report and risk screening evaluation in accordance with the approved work plan. NASA submitted the *NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (SWMU 54) Investigation Report (IR)* on July 25, 2024 (NASA, 2024p). NASA received NMED's August 7, 2024 fee assessment for review of the report and provided the $20,000 *Fee Assessment for the 500 Area Former Oxidizer (SWMU 54) Investigation Report* on August 15, 2024 (NASA, 2024s). NMED continued reviewing the report during the first quarter of 2025.

3.0 References

Johnson Space Center White Sands Test Facility. (2012, November 13). *600 Area Perched Groundwater Extraction Pilot Test Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2016a, February 25). *NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2016b, June 28). *Abbreviated Investigation Work Plan for the 600 Area Perched Groundwater*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2017, December 28). *NASA White Sands Test Facility (WSTF) SWMU 49 (700 Area Landfill) Phase I Investigation Work Plan (IWP) and Historical Information Summary (HIS*). Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2018, September 26*). 500 Area Fuel Storage (SWMU 47) Investigation Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019a, March 14). *First Tracking Data Relay Satellite System (TDRSS) Diesel Release (SWMU 50) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019b, March 28). *Response to NMED Disapproval SWMU 49 (700 Area Landfill) Phase I Investigation Work Plan and Historical Information Summary*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019c, May 29). *400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019d, May 29). *NASA WSTF (White Sands Test Facility) 100 Area Wastewater Lagoons Closure (SWMU 2) Interim Status Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019e, May 30*). 300 Area Supplemental Abbreviated Drilling Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019f, June 27). *Response to Disapproval of Revised SWMU 19 (800 Area Below Grade Storage Tank) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019g, July 23). *Response to Disapproval of NASA White Sands Test Facility (WSTF) Septic Tanks (SWMUs 21-27) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019h, July 30). *Response to Disapproval of the NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019i, August 7). *Request to Remove Electrical Resistivity Component of the 600 Area Perched Groundwater Geophysical Survey based on Geophysical Subcontractor Input Received during the Procurement Process*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019j, October 16). *Fifteen-Day Notification of a Newly Identified SWMU within the WSTF 500 Area*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019k, October 28). *Request for Extension of Time for NASA WSTF Small Arms Firing Ranges (SWMUs 29 – 31) Response to Second Disapproval Remedy Completion Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019l, November 21). *Response to Disapproval of 500 Area Fuel Storage (SWMU 47) Investigation Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019m, November 25). *NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019n, November 26). *NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019o, December 19). *Synopsis of the Findings of the 600 Area Closure Geophysical Seismic Refraction Tomography and Reflection Surveys with Revised Soil Boring Locations Submitted for NMED Approval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2019p, December 30). *NASA WSTF 400 Area Closure Investigation Report – NMED Second Disapproval Response*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020a, January 29). *Second Request for Extension of Time for NASA WSTF Small Arms Firing Ranges (SWMUs 29 – 31) Response to Second Disapproval Remedy Completion Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020b, January 30). *NMED Disapproval Response for 200 Area and 600 Area Vapor Intrusion Assessment Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020c, February 27). *Groundwater Data Representativeness Phase 1: Water FLUTe Well Evaluation Abbreviated Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020d, March 24). *Request for Extension of Time for Submittal of the 600 Area Perched Groundwater Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020e, May 4). *Request for Extension of Time for Submittal of the SWMU 49 (700 Area Landfill) Phase I Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020f, May 4). *Well Reconfiguration Report for Well BLM-28 and Notice of Intent to Plug and Abandon*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020g, June 22). *500 Area Newly Identified SWMU Release Assessment Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020h, August 3*). NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020i, August 3). *Response to Second Disapproval Small Arms Firing Ranges (SWMUs 29-31) Remedy Completion Report and Risk Assessment Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020j, August 17). *NASA White Sands Test Facility (WSTF) 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan (IWP) and Historical Information Summary (HIS)*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020k, August 17). *NASA White Sands Test Facility Hazardous Waste Operating Permit SWMU 52 Incident Notification*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020l, September 21). *NASA White Sands Test Facility Hazardous Waste Operating Permit SWMU 52 Incident Update*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020m, October 13). *NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020n, November 9). *Response to Disapproval of First Tracking Data Relay Satellite System (TDRSS) Diesel Release (SWMU 50) Investigation Report and Risk Screen Evaluation Report*. Las Cruces, NM.

NASA White Sands Complex. (2020o, November 18). *Second TDRSS UST Minimum Site Assessment Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2020p, November 30). *Request for Fourth Extension of Time for Well Reconfiguration Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021a, February 3). *Response to Approval with Modifications Work Plan for Abandonment of NASA WSTF Well BLM-30 and Replacement with Monitoring Well BLM-43*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021b, February 3). *Second Request for Extension of Time for Submittal of the SWMU 49 (700 Area Landfill) Phase I Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021c, February 18). *Second TDRSS Underground Storage Tank (SWMU 52) Release Assessment Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021d, March 15). *Application for Permit to Drill Monitoring Well (BLM-43) with No Consumptive Use of Water at NASA-JSC White Sands Test Facility.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021e, April 29). *NASA WSTF Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021f, April 29). *Well Abandonment Work Plan for Well BLM-28.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021g, May 18). *Response to NMED Approval with Modifications for the 600 Area Closure Geophysical Survey Status Report – Comment 2 (Further Investigation).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021h, May 18). *Response to Second Disapproval of NASA White Sands Test Facility (WSTF) Septic Tanks (SWMUs 21–27) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021i, May 19). *Request for Extension of Time for Submittal of Hazardous Waste Transmission Lines (SWMU 10) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021j, June 25). *Second TDRS UST Minimum Site Assessment Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021k, June 29). *NASA WSTF Well Reconfiguration Work Plan for Well BW-4.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021l, June 29). *Response to Second Disapproval of 500 Area Fuel Storage (SWMU 47) Investigation Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021m, July 14). *Response to Disapproval of 300 Area Supplemental Abbreviated Drilling Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021n, July 14). *Response to Disapproval of 400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021o, July 20) *Response to Approval with Modifications of NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021p, July 27). *NASA WSTF 400 Area Closure Investigation Report – NMED Third Disapproval Response*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021q, August 17). *Response to Approval with Modifications for Groundwater Data Representativeness Phase 1: Water FLUTe Well Evaluation Abbreviated Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021r, August 31*). Work Plan for Drilling and Installation of Monitoring Well 600B-001-GW at the NASA White Sands Test Facility (WSTF).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021s, August 31). *Work Plan for Drilling and Installation of Monitoring Well 600C-001-GW at the NASA White Sands Test Facility* (WSTF). Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021t, September 14). *Request for Second Extension of Time for Submittal of Response to Disapproval of Hazardous Waste Transmission Lines (SWMU 10) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021u, September 28). *Accelerated Corrective Measures Work Plan for the NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021v, September 28). *Request for Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2021w, November 2). *Abbreviated Investigation Work Plan for Groundwater Data Representativeness, Phase 2: FLUTe Well Evaluation.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022a, March 4). *Response to Second Disapproval of NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report and Risk Assessment Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022b, March 4). *Response to Second Disapproval of NASA WSTF 200 Area HWTL (SWMU 10) IR Risk Assessment Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022c, March 8). *Response to Approval with Modifications of NASA WSTF Well Reconfiguration Work Plan for Well BW-4*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022d, March 22). *Request for a "Contained-in" Determination for Contaminated Media Associated with the 600 Area Perched Groundwater Abbreviated Investigation Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022e, April 26). *Request for Second Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022f, April 26). *Response to Disapproval of NASA WSTF Second TDRSS Underground Storage Tank (SWMU 52) Release Assessment Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022g, April 29). *NASA WSTF Work Plan for Abandonment of NASA WSTF NASA 9 and Replacement with Monitoring Well 400-001-GW*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022h, June 29). *600 Area Perched Groundwater Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022i, August 9). *Fee Assessment for the 600 Area Perched Groundwater Investigation Report (NMED Invoice Number HWB-NASA-22-009)*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022j, August 25). *NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (FOB) Investigation Work Plan (IWP) and Historical Information Summary (HIS)*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022k, September 14). *Response to Disapproval of NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan (IWP) and Historical Information Summary (HIS)*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022l, October 4). *Notice of a Class 1 Permit Modification Request for the NASA White Sands Test Facility (WSTF) Hazardous Waste Permit No. NM8800019434*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022m, December 8). *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2022n, December 8). *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023a, January 18). *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023b, January 18). *Request for Extension of Time for NASA White Sands Test Facility (WSTF) Second Tracking and Data Relay Satellite Ground Terminal (STGT) Wastewater Lagoons Closure (Area of Concern [AOC] 51) Investigation Report Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023c, January 26). *Response to Approval with Modification of First Tracking Data Relay Satellite System (TDRSS) Diesel Release (SWMU 50) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023d, January 27). *Approval with Modifications Revised Small Arms Firing Ranges (SWMUs 29-31) Remedy Completion Report and Risk Assessment Report; NMED Comment 1.b*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023e, March 8). *Request for Second Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023f, March 8). *Request for Second Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023g, March 14). *Abandonment Report for NASA Well BLM-28*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023h, March 21). *Reconfiguration Report for NASA Well BW-4*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023i, April 12). *Request for Third Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023j, April 13). *Proposed Monitor Wells for PFAS Assessment.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023k, April 27). *Groundwater Data Representativeness Phase 2: Water FLUTe Well Evaluation Abbreviated Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023l, April 27). *NASA WSTF Work Plan for Drilling and Installation of Monitoring Wells 600C-003-GW and 600C-004-GW*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023m, April 27*). Response to Second Disapproval 200 and 600 Area Vapor Intrusion Assessment Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023n, May 11*). Fee Assessment for Well BW-4 Reconfiguration Report (NMED Invoice Number HWB-NASA-23-005).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023o, May 22). *Response to Approval with Modifications 500 Area Fuel Storage (SWMU 47) Investigation Work Plan: Phase I*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023p, May 22). *Response to Approval with Modifications of the Accelerated Corrective Measures Work Plan for the NASA WSTF SWMU 16 (600 Area BLM Off-Site Soil Pile).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023q, June 12*). Response to Approval with Modifications Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023r, June 15). *Response to Approval with Modifications Revised WSTF Septic Tanks (SWMUs 21-27) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023s, July 10). *Request for NMED Concurrence to Submit Permit Modification for the 500 Area Fuel Storage Area (SWMU 47).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023t, July 11). *Response to Approval with Modifications 400 Area Closure Investigation Report – Revision 3*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023u, July 11*). Response to Approval with Modifications 400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023v, August 3). *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023w, August 3). *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023x, August 24). *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023y, August 24). *Request for Third Extension of Time for NASA White Sands Test Facility (WSTF) Second Tracking and Data Relay Satellite Ground Terminal (STGT) Wastewater Lagoons Closure (Area of Concern [AOC] 51) Investigation Report Response to Disapproval.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023z, August 30). *Response to Approval with Modifications 600 Area Perched Groundwater Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023aa, September 13). *Expanded Scope Proposed for the 300 Area Supplemental Abbreviated Drilling Work Plan (ADWP).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023bb, September 15). *Request for Fourth Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023cc, September 15). *Request for Second Extension of Time for Submittal of the Completion Report for Monitoring Well 600C-001-GW.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023dd, October 11). *Request for Fourth Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023ee, October 11*). Request for Fourth Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023ff, October 25). *NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023gg, November 20). *Response to Disapproval of NASA White Sands Test Facility (WSTF) STGT Wastewater Lagoons Closure (AOC 51) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023hh, November 22*). Request for Fourth Extension of Time for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023ii, November 27). *NASA White Sands Test Facility (WSTF) 600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023jj, December 21). *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (FOB) Investigation Work Plan (IWP) and Historical Information Summary (HIS)*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2023kk, December 27*). Response to Approval with Modifications of the NASA WSTF 200 Area HWTL (SWMU 10) Investigation Report and Risk Assessment Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024a, January 30). *Response to Approval with Modifications of the NASA WSTF Work Plan for Abandonment of NASA WSTF Well BLM-1-435 and Replacement with Monitoring Well 600C-003-GW.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024b, February 5). *Fee Assessment for the 600 Area Perched Groundwater (PGW) Phase II Abbreviated Investigation Work Plan (AIWP) (NMED Invoice Number HWB-NASA-23-021).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024c, February 21). *RE-135 - Response to Disapproval of 600 Area Lagoons (SWMU 34) IR and Risk Assessment.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024d, February 28). *Request for Fifth Extension of Time for NASA White Sands Test Facility (WSTF) 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024e, March 29). *NASA White Sands Test Facility (WSTF) Well Completion Report for PFAS Site Investigation Well Completion Summary Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024f, April 4). *NASA White Sands Test Facility Petition for Corrective Action Status Review.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024g, April 26). *Response to Approval with Modifications for the NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan and Historical Information Summary.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024h, April 30). *Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024i, May 6). *Request for Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024j, May 21*). Fee Assessment for the 100-001-GW and 600C-005-GW Well Completion Reports (NMED Invoice Number HWB-NASA-24-002).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024k, May 29). *Quality Assurance Reports for the Response to Disapproval of the NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024l, July 19). *Response to Approval with Modifications for the 200 and 600 Area Vapor Intrusion Assessment Report (VIAR).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024m, July 22). *Request for Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Bureau of Land Management Off-site Soil Pile (SWMU 16) Remedy Completion Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024n, July 22). *Request for Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) Response to the Disapproval of Reconfiguration Report for Well BW-4.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024o, July 22). *Request for Second Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024p, July 25). *NASA White Sands Test Facility (WSTF) 500 Area Former Oxidizer Burner (SWMU 54) Investigation Report (IR).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024q, July 31). *Groundwater Data Representativeness Phase 2 Disapproval Response: Water FLUTe Well Evaluation Abbreviated Investigation Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024r, August 2). *NASA WSTF Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3 Extension Request.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024s, August 15). *Fee Assessment for the 500 Area Former Oxidizer (SWMU 54) Investigation Report (NMED Invoice Number HWB-NASA-24-007).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024t, August 29*). Response to Disapproval of the NASA WSTF 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024u, August 30). *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024v, August 30). *Response to Disapproval of the NASA WSTF Westbay Well Reconfiguration Work Plan for Wells PL-7, PL-8, PL-10, ST-5, and WW-3.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024w, August 30). *Submittal of Well Completion Reports (WCR) for NASA White Sands Test Facility (WSTF) 400-001-GW*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024x, September 5). *Resubmittal of NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – First Quarter 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024y, September 9). *Response to Approval w/Mods for STGT Wastewater Lagoons (AOC 51) IR.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024z, October 3). *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-001-GSV and 400-001-GW Analytical Results.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024aa, October 3). *Well Completion Report (WCR) for NASA White Sands Test Facility (WSTF) 300-002-GSV.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024bb, October 17). *Public Neighbor Letter for Class 3 Permit Modification.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024cc, October 23). *Response to Administratively Incomplete Determination Petition for Corrective Action Status Review White Sands Test Facility SWMUs 21-27, 30, and 31*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024dd, October 30). *Response to Approval with Modifications of the NASA White Sands Test Facility (WSTF) 700 Area Landfill (SWMU 49) Phase II Abbreviated Investigation Work Plan.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024ee, November 19). *NASA WSTF 600 Area Bureau of Land Management Off-Site Pile (SWMU 16) Remedy Completion Report and Risk Screen Evaluation.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024ff, November 20). *Plugging and Abandonment of NASA Well PFI-1*. Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024gg, November 21). *Documentation of Public Meeting supporting Petition For Class 3 Permit Modification of the White Sands Test Facility RCRA Permit.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024hh, November 21). *Response to Disapproval of Reconfiguration Report for NASA Well BW-4.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024ii, November 26). *200 and 600 Area Vapor Monitoring and Intrusion Assessment (VMIA) Abbreviated Investigation Work Plan (AIWP).* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024jj, November 26). *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Second Quarter 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2024kk, December 13). *NASA White Sands Test Facility (WSTF) Corrective Action Projects; Proposal to Restructure Priorities and Schedule.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2025a, January 15). *Response to Approval with Modifications for the PFAS Well Completion Report.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2025b, February 19). *PGEPT 2025 Transition to TMRP Reporting Proposal.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2025c, February 25). *NASA White Sands Test Facility (WSTF) 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report – Third Quarter 2024.* Las Cruces, NM.

NASA Johnson Space Center White Sands Test Facility. (2025d, March 28). *Response to Second Disapproval of the NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report.* Las Cruces, NM.

NMED Hazardous Waste Bureau. (2018, November 29). *Disapproval SWMU 49, 700 Area Landfill Phase I Investigation Work Plan and Historical Information Summary*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2019a, February 21). *Second Disapproval Small Arms Firing Ranges (SWMUs 29-31) Remedy Completion Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2019b, June 5*). Disapproval 200 Area and 600 Area Vapor Intrusion Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2019c, June 6). *Approval with Modifications SWMU 49, 700 Area Landfill Phase I Investigation Work Plan and Historical Information Summary*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2019d, August 8). *Disapproval 500 Area Fuel Storage (SWMU 47) Investigation Work Plan*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2019e, August 23). *Work Scope Modification Request Abbreviated Investigation Work Plan for 600 Area Perched Groundwater*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2019f, November 13). *Fifteen-Day Notification of a Newly Identified SWMU Within WSTF 500 Area*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020a, January 16). *Approval Request for Extension of Time for Well Reconfiguration Work Plan.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020b, January 16). *Approval Request for Second of Extension of Time for Response to Disapproval 200 Area and 600 Area Vapor Intrusion Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020c, March 21). *Approval Request for Second Extension of Time for NASA WSTF Small Arms Firing Ranges (SWMUs 29-31) Response to Second Disapproval Remedy Completion Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020d, May 14). *100 Area Wastewater Lagoons Closure (SWMU 2) Interim Status Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020e, July 1). *Approval Request for Extension of Time for Submittal of 600 Area Perched Groundwater Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020f, July 1). *Approval Request for Extension of Time for Submittal of the SWMU 49 (700 Area Landfill) Phase I Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020g, July 8). *Disapproval First TDRSS (Tracking and Data Relay Satellite System) Diesel Release (SWMU 50) Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020h, August 27). *Approval with Modifications Revised 800 Area Below Grade Storage Tank (SWMU 19) Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020i, November 5). *Approval with Modifications Work Plan for Abandonment of NASA WSTF Well BLM-30 and Replacement With Monitoring Well BLM-43*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020j, November 16). *Disapproval 200 Area Hazardous Waste Transmission Lines (SWMU 10) Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020k, November 19). *Well Reconfiguration Report for Well BLM-28 and Notice of Intent to Plug and Abandon*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2020l, December 22). *Approval with Modifications 600 Area Closure Geophysical Survey Status Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021a, January 25). *Approval Request for Fourth Extension of Time for Well Reconfiguration Work Plan.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021b, January 25). *Approval with Modifications Groundwater Monitoring Plan*. Santa Fe, NM.

NMED Petroleum Storage Tank Bureau. (2021c, February 4). *Technical Approval of Minimum Site Assessment Workplan for White Sand Complex.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021d, March 15). *Approval Request for Extension of Time for Submittal of The SWMU 49 (700 Area Landfill) Phase I Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021e, March 15). *Disapproval 400 Area Supplemental Groundwater and Soil Vapor Monitoring Plan.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021f, March 19). *Disapproval 300 Area Supplemental Abbreviated Drilling Work Plan.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021g, March 19). *Disapproval 400 Area Closure Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021h, March 19). *Disapproval 500 Area Fuel Storage (SWMU 47) Investigation Work Plan: Phase I.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021i, May 6). *Approval with Modifications 600 Area Bureau of Land Management Off-Site Soil Pile (SWMU 16) Revised Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021j, June 3). *Approval with Modifications Groundwater Data Representativeness Phase I: Water FLUTe Well Evaluation Abbreviated Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021k, July 6). *600 Area Closure Geophysical Survey Status Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021l, July 7). *Approval Request for Extension of Time for Submittal of Hazardous Waste Transmission Lines (SWMU 10) Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021m, October 27). *Approval Request for Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021n, November 15). *Approval with Modifications White Sands Test Facility Groundwater Monitoring Plan*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2021o, December 20). *Approval 500 Area Newly Identified SWMU Release Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022a, January 18). *Approval with Modifications Well Reconfiguration Work Plan for BW-4*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022b, January 25). *Approval Request for Third Extension of Time for Submittal of Response to Disapproval of Hazardous Waste Transmission Lines (SWMU 10) Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022c, March 1). *Disapproval Second TRDSS Underground Storage Tank (SWMU 52) Release Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022d, April 18). *Approval Request for "Contained-In" Determination for Contaminated Media Associate With the 600 Area Perched Groundwater Investigation*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022e, May 9). *Disapproval 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Report Plan and Historical Information Summary*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022f, June 6). *Approval Request for Second Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022g, June 6). *Disapproval 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022h, June 16). *Disapproval 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022i, July 5). *Disapproval 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022j, July 25). *Disapproval STGT Wastewater Lagoons Closure (AOC 51) Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022k, August 8). *Approval Abbreviated Investigation Work Plan for Groundwater Data Representativeness Phase 2: Water FLUTe Well Evaluation*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022l, August 8). *Approval with Modification Second TDRSS Underground Storage Tank (SWMU 52) Release Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022m, September 20). *Disapproval 200 and 600 Area Vapor Intrusion Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022n, October 31). *Approval Abbreviated Work Plan for Abandonment of NASA WSTF NASA 9 and Replacement with Monitoring Well 400-001-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022o, November 15). *NASA's October 4, 2022 Notice of a Class I Permit Modification Request for the NASA White Sands Test Facility Hazardous Waste Permit No. NM8800019434*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022p, November 16). *Approval with Modifications Revised First TDRSS (Tracking and Data Relay Satellite System) Diesel Release (SWMU 50) Investigation Report and Risk Screen Evaluation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2022q, November 16). *Approval with Modifications Revised Small Arms Firing Ranges (SWMU 29-31) Remedy Completion Report and Risk Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023a, February 10). *Approval 700 Area Closure (SWMU 49) Phase I Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023b, February 10). *Approval with Modifications 600 Area Bureau of Land Management Off-site Soil Pile (SWMU 16) Accelerated Corrective Measures Work Plan*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023c, March 1). *Approval with Modifications 500 Area Fuel Storage (SWMU 47) Investigation Work Plan: Phase I*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023d, March 16). *Approval with Modifications Revised WSTF Septic Tanks (SWMU 21-27) Investigation Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023e, March 30). *Approval Second Request for Extension of Time NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report I(IR) Response to Disapproval*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023f, March 30). *Approval Second Request for Extension of Time NASA White Sands Test Facility (WSTF) 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023g, April 27). *Hazardous Waste Permit No. NM8800019434*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023h, May 2). *Approval with Modifications 400 Area Closure Investigation Report - Revision 3*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023i, May 10). *Approval Request for Extension of Time for Submittal of the Completion Report for Installation of Monitoring Well 600C-001-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023j, May 10). *Approval Request for Second Extension of Time for Second Tracking and Data Relay Satellite Ground Terminal (STGT) Wastewater Lagoons Closure (Area of Concern 51) Investigation Report Response to Disapproval*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023k, May 10). *Approval Request for Third Extension of Time for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023l, May 23). *Approval Request for Second Extension of Time for 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023m, May 23). *Approval with Modification Abbreviated Drilling Work Plan for the Installation of Monitoring Wells in the WSTF 100 and 600 Areas*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023n, August 17). *Approval Request for Third Extension of Time for NASA White Sands Test Facility 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023o, September 14). *Approval of Third Extension Request of Time for STGT Wastewater Lagoons IR.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023p, October 4). *Approval for Fourth Extension of Time Request for Submittal of the Completion Report for Monitoring Well BLM-30 Abandonment and Installation of Replacement Monitoring Well BLM-43*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023q, October 4). *Approval of Second Extension of Time Request for Submittal of the Completion Report for Monitoring Well 600C-001-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023r, October 25*). Approval Request for Fourth Extension of Time for NASA White Sands Test Facility 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report Response to Disapproval.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023s, October 31). *Denial of Request for NMED Concurrence to Submit Permit Modification for the 500 Area Fuel Storage Area (SWMU 47*). Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023t, November 1). *Approval of the Expanded Scope Proposed for the 300 Area Supplemental ADWP*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023u, November 1). *Approval Request for Fourth Extension of Time for 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023v, November 1). *Approval with Modifications for the 200 Area HWTL (SWMU 10) IR and Risk Assessment Report*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023w, November 1). *Approval with Modifications for the 500 Area Oxidizer Burner IWP and HIS*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2023x, November 27). *Approval Drilling Work Plan for Proposed NASA WSTF Well 600C-004-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024a, January 9). *Approval of Fourth Extension of Time Request for NASA White Sands Test Facility (WSTF) 200 Area Wastewater Lagoons Closure (SWMU 8) Investigation Report (IR) Response to Disapproval.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024b, January 10). *Fee Assessment for the 600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan (NMED Invoice Number HWB-NASA-23-021).* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024c, January 19). *Approval with Modifications of NASA WSTF 300 Area Test Stand 302 Cooling Water Pond (SWMU 33) Investigation Work Plan (IWP) and Historical Information Summary (HIS).* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024d, February 6). *Approval of the Abandonment Report for Well BLM-28.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024e, February 6*). Disapproval of the Groundwater Data Representativeness Phase 2: Water FLUTe Well Evaluation Abbreviated Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024f, March 22). *Approval Request for Fifth Extension of Time for 100 Area Wastewater Lagoons Closure (SWMU 2) Investigation Report Response to Disapproval.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024g, April 18). *Approval with Modifications 200 and 600 Area Vapor Intrusion Assessment Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024h, May 7). *Fee Assessment PFAS Site Investigation Well Completion Summary Report for Wells 100-001-GW and 600C-005-GW*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024i, May 16). *Approval Request for Extension of Time for Submittal of NASA WSTF 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report - First Quarter 2024.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024j, July 31). *Approval Request for Extension of Time for Submittal of NASA White Sands Test Facility (WSTF) Response to the Disapproval of Reconfiguration Report for Well BW-4.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024k, July 31). *Approval Request for Second Extension of Time for Submittal of NASA WSTF 400 Area Supplemental Groundwater and Soil Vapor Monitoring Report - First Quarter 2024.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024l, July 31). *Approval Request for Extension of Time for NASA White Sands Test Facility (WSTF) 600 Area Bureau of Land Management Off-site Soil Pile (SWMU 16) Remedy Completion Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024m, July 31). *Approval with Modifications 700 Area Landfill Closure (SWMU 49) Phase II Abbreviated Investigation Work Plan*. Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024n, September 3). *Administratively Incomplete Petition for Corrective Action Status Review White Sands Test Facility SWMUS 21-27, 30, and 31.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024o, November 5). *Approval 600 Area Perched Groundwater Phase II Abbreviated Investigation Work Plan.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2024p, December 9). *Disapproval 600 Area Wastewater Lagoons Closure (SWMU 34) Investigation Report.* Santa Fe, NM.

NMED Hazardous Waste Bureau. (2025, February 3). *Corrective Action Projects: Proposal to Restructure Priorities and Schedule National Aeronautics and Space Administration.* Santa Fe, NM.