


Environmental Protection and Compliance Division

Los Alamos National Laboratory
 P.O. Box 1663, MS M969
 Los Alamos, NM 87545
 505-667-8160

National Nuclear Security Administration

Los Alamos Field Office
 3747 West Jemez Road, A316
 Los Alamos, NM 87544
 505-667-5794/Fax 505-606-5948

Symbol: EPC-DO-23-379

Date: December 18, 2023

LA-UR: 23-33613

Mr. Ricardo Maestas, Acting Chief
 Hazardous Waste Bureau
 New Mexico Environment Department
 2905 Rodeo Park Drive East, Building 1
 Santa Fe, NM 87505-6313

**Subject: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report,
 Calendar Year 2023, Quarter 4, November 2023, Los Alamos National Laboratory, EPA
 ID# NM0890010515**

Dear Mr. Maestas:

The United States Department of Energy National Nuclear Security Administration, Los Alamos Field Office (NA-LA) and Triad National Security, LLC (Triad) submit the enclosed report titled, *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Calendar Year 2023, Quarter 4, November 2023* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit) Part 3, Section 3.14.3 to the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB).

The Permit requires that the soil vapor monitoring system at the LANL Technical Area 63 Transuranic Waste Facility be sampled and evaluated for designated volatile organic compounds on a quarterly basis to ensure protection of environmental health and safety, including that of onsite workers. The enclosed report provides the results of calendar year 2023, Quarter 4 sampling conducted on November 1, 2023. The sampling results indicate that vapor concentrations at the site do not exceed the soil gas screening levels established by the Permit. On December 7, 2023 the Permittees provided a 15-day notification regarding newly detected constituents in monitoring wells VMW-2 and VMW-5. The detections are further discussed in this report.

In compliance with Permit Section 1.9.16, a report certification is included with this submittal. A compact disc with copies of the report and the analytical data in an Excel format is also included to facilitate the review of the monitoring results.

If you have any questions or comments concerning this report, please contact Robert A. Gallegos (NA-LA) at 208-569-0377 or by email at robert.gallegos@nnsa.doe.gov or Jason Hill (Triad) at 505-551-2218 or by email at jshill@lanl.gov.

Sincerely,

STEVEN STORY 
(Affiliate) Digital signed by STEVEN STORY (Affiliate)
Date: 2023.12.14 09:42:02 -0700'

Steven L. Story
Division Leader
Environmental Protection and Compliance Division
Triad National Security, LLC
Los Alamos National Laboratory

Sincerely,

Robert A. Gallegos 
Digital signed by Robert A. Gallegos
Date: 2023.12.14 11:36:15 -0700'

Robert A. Gallegos
Program Manager
Environmental Permitting and Compliance Program
National Nuclear Security Administration
Los Alamos Field Office
U.S. Department of Energy

SLS/RAG

Enclosure: *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Calendar Year 2023, Quarter 4, November 2023*

Copy: Laurie King, USEPA/Region 6, Dallas, TX, king.laurie@epa.gov
Rick Shean, NMED-HWB, Santa Fe, NM, rick.shean@env.nm.gov
Ricardo Maestas, NMED-HWB, Santa Fe, NM, ricardo.maestas@env.nm.gov
Neelam Dhawan, NMED-HWB, Santa Fe, NM, neelam.dhawan@env.nm.gov
Siona Briley, NMED-HWB, Santa Fe, NM, siona.briley@env.nm.gov
Mitchell Schatz, NMED-HWB, Santa Fe, NM, mitchell.schatz@env.nm.gov
Theodore A. Wyka, NA-LA, theodore.wyka@nnsa.doe.gov
Stephen Hoffman, NA-LA, stephen.hoffman@nnsa.doe.gov
Jason Saenz, NA-LA, jason.saenz@nnsa.doe.gov
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Adrienne L. Nash, NA-LA, adrienne.nash@nnsa.doe.gov
Robert A. Gallegos, NA-LA, robert.gallegos@nnsa.doe.gov
Brian Harcek, EM-LA, brian.harcek@em.doe.gov
Steven Coleman, Triad, ALDESHQ, scoleman@lanl.gov
Jennifer E. Payne, Triad, ALDESHQ, jpayne@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Steven L. Story, Triad, EPC-DO, story@lanl.gov
Andie McLaughlin-Kysar, Triad, EPC-DO, andiek@lanl.gov
Deepika Saikrishnan, Triad, EPC-DO, deepika@lanl.gov
Jessica L. Moseley, Triad, EPC-WMP, jmoseley@lanl.gov
Jason S. Hill, Triad, EPC-WMP, jshill@lanl.gov
Cecilia Trujillo, Triad, EPC-WMP, ceciliat@lanl.gov
Kristen Van Horn, Triad, EPC-WMP, klv@lanl.gov
John M. Quintana, Triad, TA55-WF, johnq@lanl.gov
Michael J. Furman, Triad, EPC-WMP, mfurman@lanl.gov
Christian Maupin, N3B, christian.maupin@em-la.doe.gov
rcra-prr@lanl.gov
eshq-dcrm@lanl.gov
locatesteam@lanl.gov
epccorrespondence@lanl.gov
lasomailbox@nnsa.doe.gov



Environmental Protection and Compliance Division
Los Alamos National Laboratory
P.O. Box 1663, MS M969
Los Alamos, NM 87545
505-667-8160



National Nuclear Security Administration
Los Alamos Field Office
3747 West Jemez Road, A316
Los Alamos, NM 87544
505-667-5794/Fax 505-606-5948

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The Permit requires that the soil vapor monitoring system at the LANL Technical Area 63 Transuranic Waste Facility be sampled and evaluated for designated volatile organic compounds on a quarterly basis to ensure protection of environmental health and safety, including that of onsite workers. The enclosed report provides the results of calendar year 2023, Quarter 4 sampling conducted on November 1, 2023. The sampling results indicate that vapor concentrations at the site do not exceed the soil gas screening levels established by the Permit. On December 7, 2023 the Permittees provided a 15-day notification regarding newly detected constituents in monitoring wells VMW-2 and VMW-5. The detections are further discussed in this report.

In compliance with Permit Section 1.9.16, a report certification is included with this submittal. A compact disc with copies of the report and the analytical data in an Excel format is also included to facilitate the review of the monitoring results.

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ENCLOSURE

*Technical Area 63 Transuranic Waste Facility Soil Vapor
Monitoring System Report, Calendar Year 2023, Quarter 4,
November 2023*

Date: December 17, 2023

EPC-DO-23-379
LA-UR-23-33613

U.S. Department of Energy,
National Nuclear Security Administration Los Alamos Field Office, and
Triad National Security, LLC

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CERTIFICATION

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Certification

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

STEVEN STORY
(Affiliate)

Digitally signed by STEVEN
STORY (Affiliate)
Date: 2023.12.14 09:43:09
-07'00'

Steven L. Story

Division Leader
Environmental Protection and Compliance Division
Triad National Security, LLC
Los Alamos National Laboratory

Date Signed

Robert A.
Gallegos

Digitally signed by Robert A. Gallegos
Date: 2023.12.14 11:36:47 -07'00'

Robert A. Gallegos

Program Manager
Environmental Permitting and Compliance Program
National Nuclear Security Administration
Los Alamos Field Office
U.S. Department of Energy

Date Signed

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Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Calendar Year 2023, Quarter 4, November 2023

I Introduction

This report provides the calendar year (CY) 2023, Quarter 4, November 2023 (CY2023, Quarter 4) soil vapor sampling results from the Technical Area 63 (TA-63) Transuranic Waste Facility (TWF) soil vapor monitoring network at Los Alamos National Laboratory (LANL). The TWF soil vapor monitoring wells evaluate vapor-phase contaminants that potentially migrate from TA-50, Material Disposal Area (MDA) C, Solid Waste Management Unit 50-009. MDA C is managed under the Compliance Order on Consent. The TWF is located southeast of MDA C. Quarterly sampling is required by the LANL Hazardous Waste Facility Permit (Permit) Part 3, Section 3.14.3, Subsurface Vapor Monitoring, to prevent worker exposure to potentially harmful levels of volatile organic compounds (VOCs) at the site.

Sampling and laboratory analytical results for CY2023, Quarter 4 confirm that VOC concentrations in the soil gas at the site are stable and do not exceed the screening levels established by the Permit. This report also presents a statistical analysis of the soil vapor data as part of an ongoing review to determine the need for continued sampling on a quarterly basis.

II Background

On December 23, 2013, the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) approved a Permit modification for the construction of the TWF. The approved modification, Permit Part 3, Section 3.14.3, required completion of vapor monitoring well construction and at least one vapor sample collected from each well before the start of operations at the TWF. Soil vapor monitoring wells were installed in August 2015. Baseline soil vapor monitoring samples were collected in September 2015. The initial report was submitted on October 29, 2015 (LANL 2015) and approved with modifications in February 2016 (NMED 2016). The first quarterly sampling event coincides with commencement of waste activities at the site in December 2017. Quarterly reports for the last twenty-four quarters are listed in the references section (LANL 2017 through LANL 2023c).

The TWF soil vapor monitoring network consists of five soil vapor monitoring wells located in or near the permitted storage area at the TWF. The vapor monitoring wells were installed as specified in Permit Attachment A, Section A.6.10, Subsurface Vapor Monitoring. Figure 1. Soil vapor monitoring well locations at TA-63 TWF, depicts the locations of the five soil vapor monitoring wells that comprise the TWF soil vapor monitoring network. Vapor monitoring well (VMW)-1 (LANL Structure Number 63-2009) and VMW-2 (63-2010) are located proximal to the TWF storage building foundations and adjacent to the unit boundary that faces the utility corridor on Puye Road and MDA C. A third vapor monitoring well, VMW-3 (63-2011), is located within the permitted unit at a point on the western edge of the unit and close to the utility corridor on Pajarito Road. The sampling ports for VMW-1, VMW-2, and VMW-3 are located at a 5-foot (ft) nominal depth below the concrete pad of the TWF permitted storage unit. Two vapor monitoring wells, VMW-4 (63-2012) and VMW-5 (63-2013), are located outside the permitted unit, across Puye Road to the north and closer to MDA C. There are two sampling ports in both VMW-4 and VMW-5 at depths of 25 and 60 ft below the ground surface. Each vapor monitoring well and vapor monitoring port are sampled during quarterly sampling events, for a total of seven (7) vapor samples.

The Permit presents action levels within Permit Part 3, Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3 (Permit Tables) for VOC constituents of concern. Each Permit Table presents soil gas screening levels (SGSLs) for each of the vapor monitoring well sample ports at 5 ft, 25 ft, and 60 ft. The SGSLs are based on U.S. Environmental Protection Agency (EPA) guidance. References to the guidance and an explanation of the calculations used to develop the SGSLs are presented in Permit Part 3, Section 3.14.3, Subsurface Vapor Monitoring. All VOC laboratory analytical sampling results are compared with the SGSLs where listed. The primary constituent of concern at the site is trichloroethylene (TCE).

NMED-HWB correspondence, dated May 23, 2018 (NMED 2018), requires reporting of current and previous sampling results. Table 3, Current and Previous Analytical Results for Eight Quarters, presents the current and previous quarterly soil gas laboratory analytical results for comparison and tracking.

III Soil Vapor

Field work for the CY2023, Quarter 4 sampling event occurred on November 1, 2023. Soil vapor gases were extracted from the monitoring well sample ports through stainless steel tubing into stainless steel SUMMA canisters and submitted for laboratory analysis of VOCs using the EPA TO-15 method as required by Permit Section 3.14.3. Field personnel collected a total of nine (9) samples, including one field duplicate from VMW-5, 60-ft port and one field blank sample. The samples were analyzed for the constituents identified in the Permit Tables. There were no variances in the sampling procedures from the Permit requirements.

IV Analytical Results

Several constituents of concern are regularly detected in the soil vapor monitoring network. TCE is regularly detected in all of the vapor monitoring wells. Chloroform, dichlorodifluoromethane, tetrachloroethylene, and carbon tetrachloride are also routinely detected in the vapor monitoring wells VMW-4 and VMW-5. The analytical data are discussed below.

LANL's Sample Management Office processes laboratory analytical data for quality assurance/quality control; these data are presented as an Excel file included on the disc submitted with this report. Results are also presented in Table 2, Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – CY2023, Quarter 4. These data include all detect and non-detect analytical results.

Table 1, Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – CY2023, Quarter 4, presents a summary of the detected laboratory VOCs analytical results. The table provides results for both non-qualified and estimated (J-qualified) detections. Each well port depth and constituent of concern have an associated SGSL, presented in Table 1, for comparison with the analytical results. One column presents a calculated percentage of the analytical results to the SGSLs to demonstrate the relative constituent concentrations. The data continue to demonstrate that detected concentrations of TCE and other VOCs do not exceed the respective SGSLs in the Permit Tables and continue to be detected well below the SGSLs.

TCE consistently exhibits the highest concentration levels among the detected VOCs at the site. TCE is detected in all five of the vapor sampling wells at all port depths. The detected concentrations are highest closer to MDA C. Vapor monitoring wells VMW-4 and VMW-5 are the closest vapor monitoring wells to MDA C. The TCE concentration measured in VMW-4 at the 25-ft port depth is 2300 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (1.5% of the SGSL) and 6400 $\mu\text{g}/\text{m}^3$ at the 60-ft port depth (6.9% of the SGSL). The TCE concentration measured in VMW-5 at the 25-ft port depth is 340 $\mu\text{g}/\text{m}^3$ (0.2% of the SGSL) and 1300 $\mu\text{g}/\text{m}^3$ at the 60-ft port depth (1.4% of the SGSL). Vapor monitoring wells VMW-1, VMW-2, and

VMW-3 are closest to the TWF permitted unit and demonstrate TCE concentrations that are a fraction of a percent of the SGSL: 0.2%, 0.5%, and 0.5%, respectively.

Chloroform is routinely present in soil gas samples collected from vapor monitoring wells VMW-4 and VMW-5. The concentrations of chloroform in vapor monitoring well VMW-4 are 93 µg/m³ (0.4% of the SGSL) and 200 µg/m³ (0.5% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively. The concentrations of chloroform in vapor monitoring well VMW-5 are 63 µg/m³ (0.3% of the SGSL) and 29 µg/m³ (J-qualified or estimated) (<0.1% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively.

Sample results from well VMW-2, 5-ft sampling port indicate the presence of chloroform for the first time. A 15-day notification was sent to the NMED-HWB on December 7, 2023 (LANL 2023d), in accordance with Permit Part 3, Section 3.14. The concentration of chloroform in the well is 4.6 µg/m³ (J) (<0.1% of the SGSL). There are no known issues with the laboratory data. The presence of chloroform will continue to be monitored for in future sampling events.

Vapor monitoring wells VMW-4 and VMW-5 also consistently demonstrate concentrations above the laboratory report detection limits for dichlorodifluoromethane, tetrachloroethylene, and carbon tetrachloride. The concentrations for these VOCs are very low at 0.1% or less of the relevant SGSLs.

This quarter, there are no detection of constituents in the field blank sample. The Permittees will continue to monitor the field blank issue discussed below and ensure that steps are taken to prevent potential field blank contamination.

Additional Analytic Results Discussion

Occasionally additional VOCs are detected in the vapor monitoring wells. The Permit Part 3, Section 3.14.3, requires notification to the NMED-HWB when a constituent is detected that has not previously been detected, when a detection exceeds half of the SGSL, and when the detected concentration that exceeds half of the SGSL increases for the third consecutive sampling event. Notifications submitted to date have been for newly detected constituents.

A field duplicate sample for vapor monitoring well VMW-5, 60-ft port in the CY2020, Quarter 1 sampling event (LANL 2020c) required a notification of additional constituents. The newly detected VOCs included tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), and 2-butanone. The Permit Tables list 2-butanone (methylethylketone) but do not list the other constituents. In the CY2021, Quarter 3 sampling event, the field duplicate for VMW-5, 60-ft port demonstrated a detection of ethanol at 30 µg/m³ (J-qualified). The note for this sample indicated that the laboratory control sample percent recovery was less than the lower acceptable limit but greater than or equal to the rejection limit. CY2023, Quarter 4 results for the field duplicate for VMW-5, 60ft port indicate the presence of carbon disulfide and benzene for the first time. The detection of these constituents is also included in the December 7, 2023 15-day notification; both constituents are included in the Permit Tables. The sample results for the field duplicate sample indicate the concentration of carbon disulfide is 12 µg/m³ (J) and benzene is 3.5 µg/m³ (J); both results are <0.1% of the SGSLs. There are no known issues with the laboratory data. The presence of carbon disulfide and benzene will be monitored for in future monitoring events.

On December 16, 2021, notification of a newly detected constituent was made to NMED-HWB (LANL 2021e), as required by Permit Section 3.14.3. The analytical results for the sample collected from VMW--1 indicated the detection of a new constituent, xylene[1,3-]+xylene[1,4-] (m-xylene and p-xylene), below the laboratory report detection limit. Review of the analytical laboratory data did not indicate a data-quality error. In correspondence dated August 29, 2022 [NMED 2022], the NMED-HWB indicated that the lack of detection in the CY2022, Quarter 1 and CY2022, Quarter 2 sampling events

does not rule out the presence of xylene isomers; therefore, continued monitoring for the constituents is required. Data confirm that there are no detections for xylene isomers at VMW-1 for CY2023, Quarter 4.

VOCs that are not listed in the Permit tables are also sometimes detected. The detections are reported in the quarterly reports and the constituents are noted in the paragraphs below for continuity and tracking.

Ethanol and propanol[2-] (isopropyl alcohol) have been detected at estimated (J-qualified) concentrations in vapor monitoring wells VMW-1 and VMW-4 in previous sampling events. Neither of these constituents are listed in the Permit Tables, so there are no associated Permit SGSLs for comparison. In CY2020, Quarter 3 (LANL 2020e), vapor monitoring well VMW-1, 5-ft port and VMW-4, 25-ft port analytical results indicated the presence of ethanol and propanol[2-] (isopropyl alcohol). CY2021, Quarter 1 (LANL 2021b) analytical results for vapor monitoring well VMW-4, 60-ft port demonstrated the presence of propanol[2-] (isopropyl alcohol) at 19 µg/m³. The CY2023, Quarter 4 sampling results indicate the presence of ethanol is detected in VMW-1 at 36 µg/m³ (J). The presence of ethanol and propanol[2-] (isopropyl alcohol) will continue to be monitored.

Bromodichloromethane is detected in VMW-4, 60-ft port and VMW-5, 25-ft sampling port. This is the first time bromodichloromethane was detected in VMW-5; the constituent was previously detected in well VMW-4, 25-ft port during the CY2019, Quarter 3 sampling event (LANL 2019c). The concentrations of bromodichloromethane in VMW-4, 60-ft sampling port and VMW-5, 25-ft sampling port are 5.8 µg/m³ (J) and 6.2 µg/m³ (J), respectively. Bromodichloromethane is not included as a constituent of concern in the Permit Tables. The December 7, 2023 15-day notification of newly detected constituents included the detection of bromodichloromethane in vapor monitoring well VMW-5. The presence of bromodichloromethane will continue to be monitored.

A faulty nitrogen tank resulted in field blank sample issues for several quarters. Field blank sample analytical results starting in CY2019, Quarter 1 through CY2021, Quarter 1 (LANL 2019a through LANL 2021b) indicated the presence of ethylbenzene and xylene isomers. These constituents are listed in the Permit tables; however, the constituents were not present in any samples collected directly from the five soil vapor monitoring wells. Field blanks are collected onsite during sampling events to detect and identify contaminants from the sampling site. An ultra-high pure nitrogen tank is used as the vapor source for the field blank. The nitrogen tank is connected to a SUMMA canister, which is then sent to the analytical laboratory, along with the other samples, for analysis. In correspondence dated March 26, 2021 (NMED 2021), the NMED-HWB required that the source of the field blank contamination be identified. Before the CY2021, Quarter 2 sampling event, a new ultra-high pure nitrogen tank was purchased and used for field blank sample collection, which resulted in no detectable amounts of ethylbenzene or xylene isomers. As discussed in the previous section, the CY2023, Quarter 4 results for the field blank indicate that the constituents were not detected; the issue will continue to be monitored.

V Statistics

Statistics that focus on TCE, which is the primary soil vapor constituent detected during the TWF operating period, are calculated to analyze constituent concentrations and potential data trends. Table 4, Statistical Analyses, presents the mean and standard deviation for the TCE concentrations over time to determine whether the concentrations of TCE can be described statistically within a defined range.

The detected concentrations of TCE to date remain within the limits of a two standard deviation interval of the sample above and below the statistical mean values, with a confidence probability of 95%. Two near-range exceptions are associated with the data from the 25-ft ports of vapor monitoring wells VMW-4 and VMW-5. A three standard deviation calculation for these wells (see Table 4) demonstrates that the concentrations for data exceptions fall within a range with a confidence probability of 99%. This result

means that no significant deviations are observed for the average TCE concentrations for each well and sampling port to that approximate level of confidence.

Figure 2, Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit, and Figure 3, Data plots for TA-63 TWF soil vapor monitoring wells outside the permitted unit, present data plots of the last eight quarters of TCE data for each well and port to evaluate whether any significant data trends over time are discernable. The trend line plots for each well and port depth are relatively flat. There also does not appear to be a relationship between well results that would indicate seasonal variations or indicate plume concentration changes within these wells.

The concentrations detected are also significantly below the permitted maximum SGSL constituent concentrations for TCE (by at least one order of magnitude). The TCE concentrations for the sampling quarters collected to date appear relatively stable.

The data suggest that the constituent concentrations are stable and that any increase in VOC concentrations, which are of concern according to the Permit conditions for reporting, will likely occur slowly over time and will be identified easily without approaching the SGSL action levels.

VI References

- LANL 2015. "TA-63 Transuranic Waste Facility Soil Vapor Monitoring System Report," (ENV-DO-15-0305), October 29, 2015. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2017. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 1, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:17-560), December 21, 2017. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2018a. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:18-139) of March 30, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2018b. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 3, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:18-245) of June 28, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2018c. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 4, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:18-349) of September 26, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2018d. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 5, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:18-448) of December 27, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2019a. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 6, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:19-103) of April 4, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2019b. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 7, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:19-203) of June 26, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2019c. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 8, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:19-343) of September 30, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

- LANL 2020a. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 9, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:19-467) of January 10, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2020b. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Additional Information, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:20-121) of March 26, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2020c. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 10, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:20-121) of March 30, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2020d. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 11, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:20-196) of June 30, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2020e. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 12, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:20-302) of October 2, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2021a. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 13, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO:20-417) of January 11, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2021b. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO-21-135) of May 3, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2021c. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 15, Los Alamos National Laboratory EPA ID# NM0890010515," (EPC-DO-21-181) of June 28, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2021d. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 16) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-21-295) of October 4, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.
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- LANL 2022a. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 17) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-21-404) of January 3, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2022b. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, February 2022 (Quarter 18) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-22-093) of March 29, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2022c. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, May 2022 (Quarter 19) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-22-169) of July 5, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2022d. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, July 2022 (Quarter 20) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-22-251) of September 26, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.

- LANL 2022e. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, October 2022 (Quarter 21) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-22-342) of December 20, 2022. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2023a. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, January 2023 (Quarter 22) Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-23-103) of March 27, 2023. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2023b. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, April 2023, Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-23-183) of June 26, 2023. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2023c. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 3, July 2023, Los Alamos National Laboratory, EPA ID# NM0890010515," (EPC-DO-23-284) of September 25, 2023. Los Alamos National Laboratory, Los Alamos, New Mexico.
- LANL 2023d. "15-Day Notification of Newly Detected Constituent in Vapor Monitoring Well, Technical Area 63, Transuranic Waste Facility," (EPC-DO-23-377) of December 7, 2023. Los Alamos National Laboratory, Los Alamos, New Mexico.
- NMED 2010. *Los Alamos National Laboratory Hazardous Waste Facility Permit*, issued by New Mexico Environment Department, Hazardous Waste Bureau, November 30, 2010, and subsequent revisions.
- NMED 2016. Letter: "Approval with Modifications Transuranic Waste Facility Soil Vapor Monitoring System Report, Los Alamos National Laboratory EPA ID# NM0890010515, HWB-LANL-15-058," dated February 29, 2016. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.
- NMED 2018. Letter: "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID# NM0890010515, HWB-LANL-18-016," dated May 23, 2018. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.
- NMED 2021. Letter: "Review Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 13, Los Alamos National Laboratory EPA ID# NM0890010515, HWB-LANL-18-016," dated March 26, 2021. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.
- NMED 2022. Letter: "Review Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, May 2022 (Quarter 19), Los Alamos National Laboratory EPA ID# NM0890010515, HWB-LANL-22-041," dated August 29, 2022. New Mexico Environment Department, Hazardous Waste Bureau, Santa Fe, New Mexico.

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FIGURES AND TABLES

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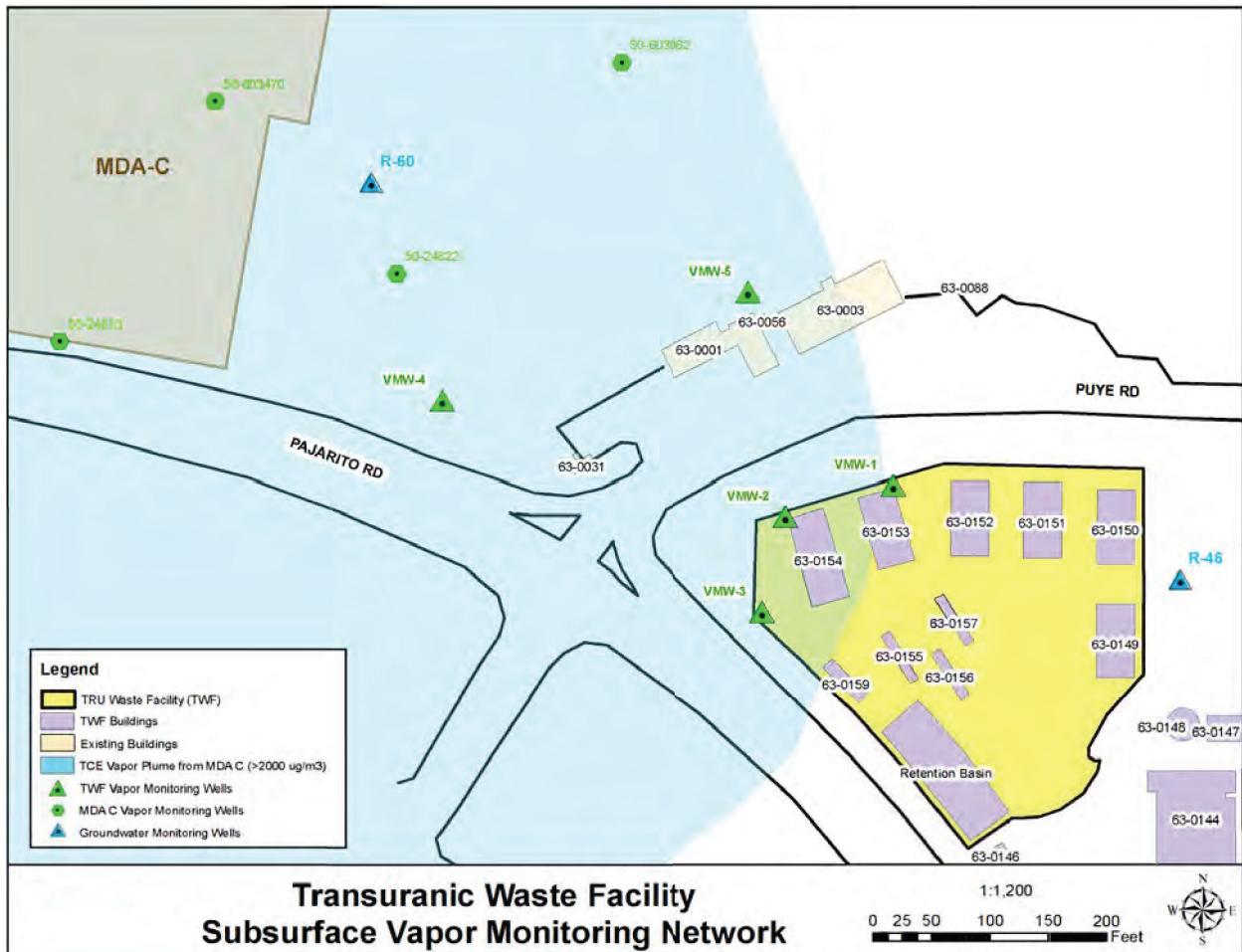


Figure 1. Soil vapor monitoring well locations at TA-63 TWF.

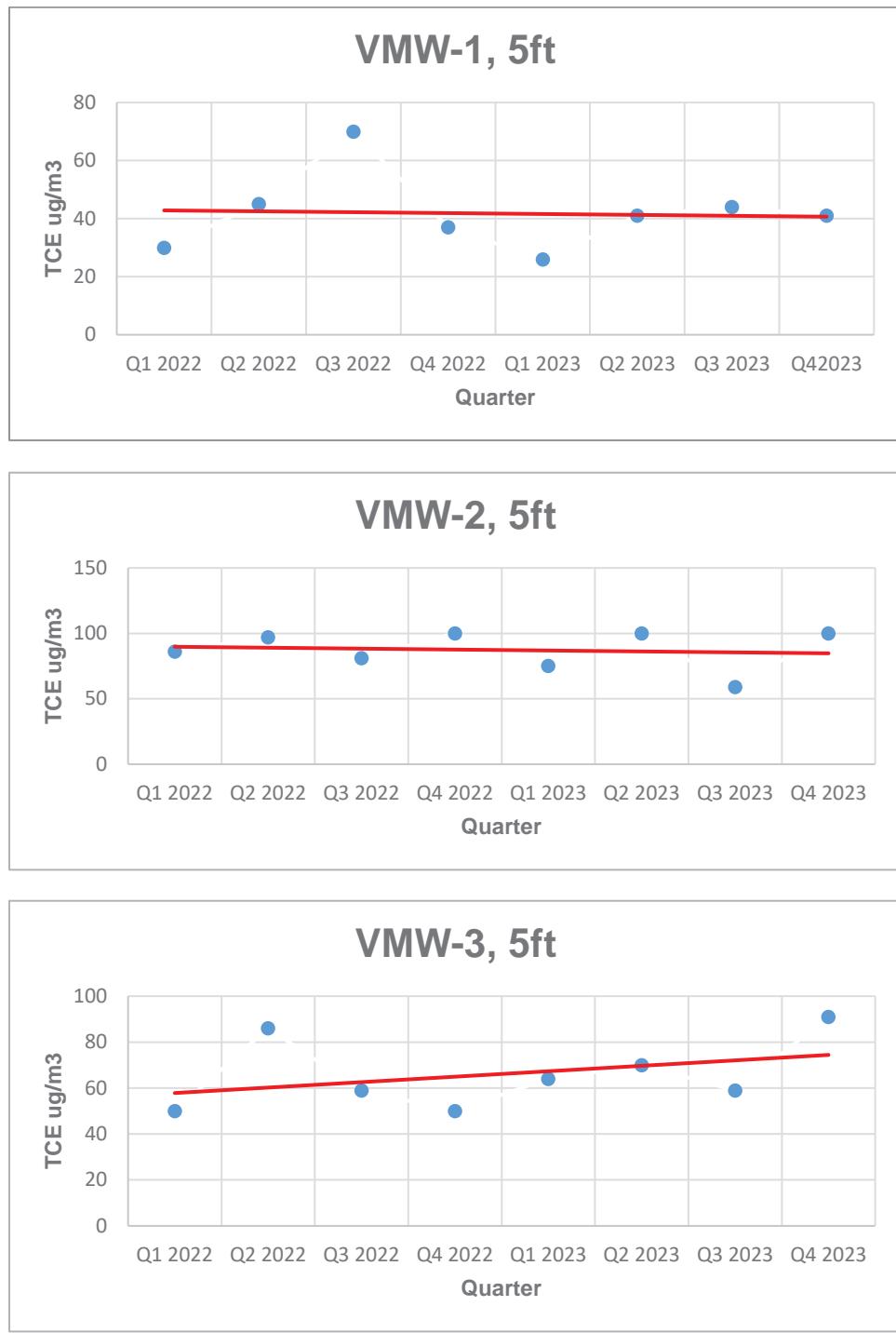


Figure 2. Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit.

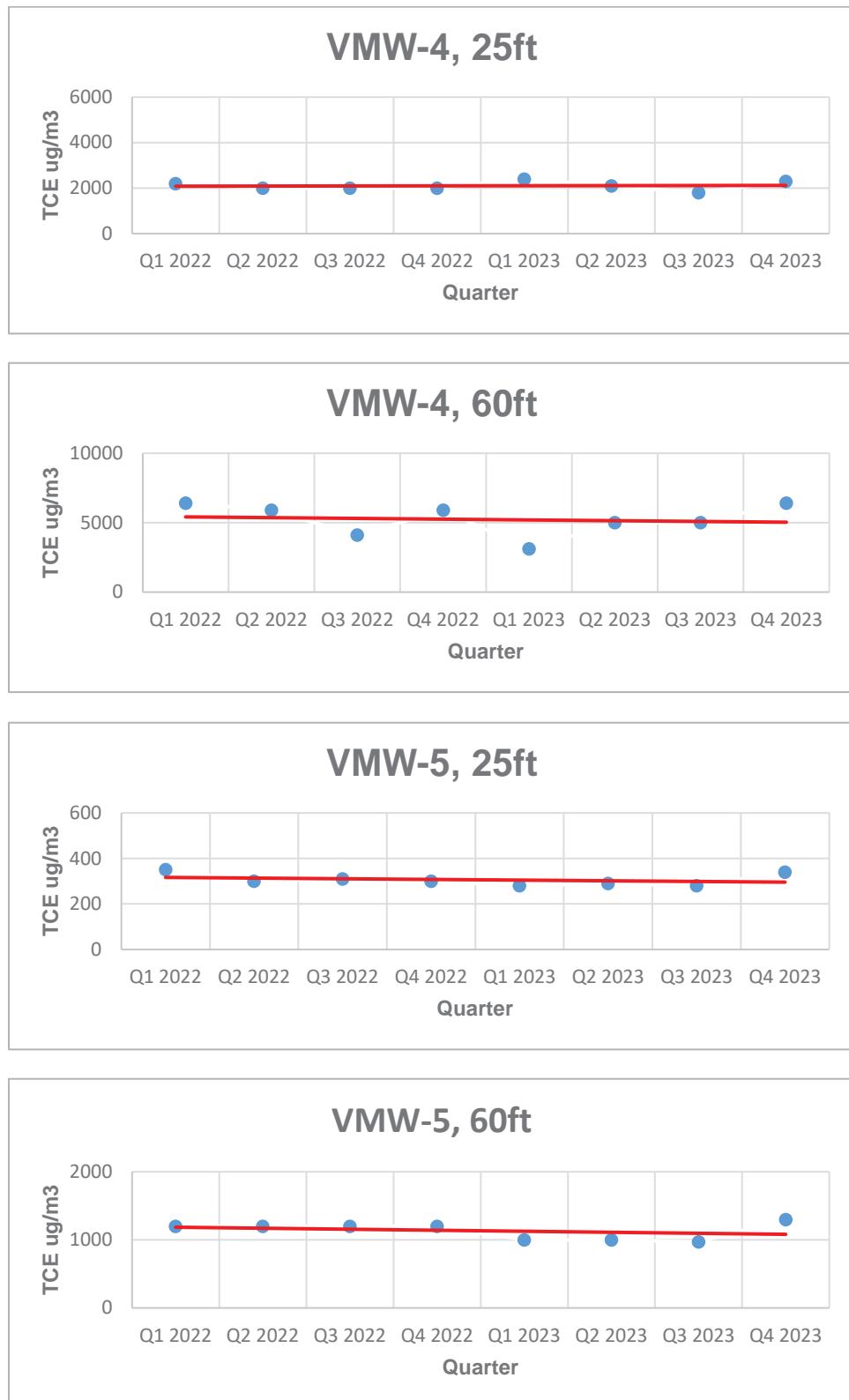


Figure 3. Data plots for TA-63 TWF soil vapor monitoring wells outside the permitted unit.

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Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – CY2023 Quarter 4

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result ($\mu\text{g}/\text{m}^3$)	EPA Data Qualifier	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	SGSL ($\mu\text{g}/\text{m}^3$)	% SGSL
VMW-1 (63-2009)	TWF63-23-304075	5	REG	Trichloroethene	Trichloroethylene	41	J	42	1.94E+04	0.2
	TWF63-23-304075	5	REG	Ethanol	N/A	36	J	73	N/A	N/A
VMW-2 (63-2010)	TWF63-23-304076	5	REG	Chloroform	Chloroform	4.6	J	35	1.08E+04	<0.1
	TWF63-23-304076	5	REG	Trichloroethene	Trichloroethylene	100	NQ	39	1.94E+04	0.5
VMW-3 (63-2011)	TWF63-23-304077	5	REG	Trichloroethene	Trichloroethylene	91	NQ	47	1.94E+04	0.5
VMW-4 (63-2012)	TWF63-23-304078	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	48	NQ	38	2.61E+06	<0.1
	TWF63-23-304078	25	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	11	J	59	6.86E+08	<0.1
	TWF63-23-304078	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	35	J	48	1.06E+05	<0.1
	TWF63-23-304078	25	REG	Chloroform	Chloroform	93	NQ	38	2.30E+04	0.4
	TWF63-23-304078	25	REG	Tetrachloroethene	Tetrachloroethylene	31	J	52	2.63E+06	<0.1
	TWF63-23-304078	25	REG	Trichloroethene	Trichloroethylene	2300	NQ	41	1.57E+05	1.5
	TWF63-23-304079	60	REG	Bromodichloromethane	N/A	5.8	J	55	N/A	N/A
VMW-4 (63-2012)	TWF63-23-304079	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	100	NQ	52	2.13E+05	<0.1
	TWF63-23-304079	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	130	NQ	41	5.38E+06	<0.1
	TWF63-23-304079	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	27	J	63	1.38E+09	<0.1
	TWF63-23-304079	60	REG	Tetrachloroethene	Tetrachloroethylene	67	NQ	56	2.05E+06	<0.1
	TWF63-23-304079	60	REG	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	19	J	32	2.91E+06	<0.1
	TWF63-23-304079	60	REG	Acetone	Acetone	200	NQ	78	1.02E+09	<0.1
	TWF63-23-304079	60	REG	Chloroform	Chloroform	200	NQ	40	4.44E+04	0.5
	TWF63-23-304079	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	9.8	J	45	2.34E+08	<0.1
	TWF63-23-304079	60	REG	Trichloroethene	Trichloroethylene	6400	NQ	44	9.27E+04	6.9
	TWF63-23-304080	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	34	J	39	2.61E+06	<0.1
VMW-5 (63-2013)	TWF63-23-304080	25	REG	Trichloroethene	Trichloroethylene	340	NQ	42	1.57E+05	0.2
	TWF63-23-304080	25	REG	Bromodichloromethane	N/A	6.2	J	52	N/A	N/A
	TWF63-23-304080	25	REG	Chloroform	Chloroform	63	NQ	38	2.30E+04	0.3
	TWF63-23-304080	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	15	J	43	1.16E+08	<0.1
	TWF63-23-304080	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	5.9	J	49	1.06E+05	<0.1
	TWF63-23-304081	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	59	NQ	37	5.38E+06	<0.1

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result (µg/m3)	EPA Data Qualifier	Report Detection Limit (µg/m3)	SGSL (µg/m3)	% SGSL
VMW-5 (63-2013)	TWF63-23-304081	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	13	J	57	1.38E+09	<0.1
	TWF63-23-304081	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	17	J	47	2.13E+05	<0.1
	TWF63-23-304081	60	REG	Chloroform	Chloroform	29	J	36	4.44E+04	<0.1
	TWF63-23-304081	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	32	J	40	2.34E+08	<0.1
	TWF63-23-304081	60	REG	Tetrachloroethene	Tetrachloroethylene	12	J	50	2.05E+06	<0.1
	TWF63-23-304081	60	REG	Trichloroethylene	Trichloroethylene	1300	NQ	40	9.27E+04	1.4
VMW-5 (63-2013) Field Duplicate	TWF63-23-304082	60	FD	Carbon Disulfide	Carbon disulfide	12	J	96	2.59E+07	<0.1
	TWF63-23-304082	60	FD	Carbon Tetrachloride	Carbon Tetrachloride	24	J	49	2.13E+05	<0.1
	TWF63-23-304082	60	FD	Dichlorodifluoromethane	Dichlorodifluoromethane	79	NQ	39	5.38E+06	<0.1
	TWF63-23-304082	60	FD	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	18	J	60	1.38E+09	<0.1
	TWF63-23-304082	60	FD	Tetrachloroethene	Tetrachloroethylene	19	J	53	2.05E+06	<0.1
	TWF63-23-304082	60	FD	Chloroform	Chloroform	39	NQ	38	4.44E+04	<0.1
	TWF63-23-304082	60	FD	Benzene	Benzene	3.5	J	25	1.54E+05	<0.1
	TWF63-23-304082	60	FD	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	40	J	43	2.34E+08	<0.1
	TWF63-23-304082	60	FD	Trichloroethylene	Trichloroethylene	1700	NQ	42	9.27E+04	1.8

Notes: EPA Data Qualifier "J" indicates analytes that are detected but results are estimated as less than the report detection limit

EPA Data Qualifier "NQ" indicates analytes that are detected above the report detection limit with no data qualifiers

REG = regular sample

FD = field duplicate

FB = field blank

SGSL = Soil Gas Screening Level from Permit Part 3, Tables 3.14.3.1 through 3.14.3.3

N/A = not applicable

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – CY2023 Quarter 4

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	41	J	2.7	42	Y
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	36	J	6.4	73	Y
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	3.9	34	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	1.9	33	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	2.6	40	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	3.7	35	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	4.1	35	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	3.3	38	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	3.6	47	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	4.4	60	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	4.9	32	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	3.7	31	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	4.4	31	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	1.7	28	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	1.4	36	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	2.8	47	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	4.7	43	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	36	120	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	5.6	64	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	11	82	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	1.2	20	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	22	110	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	6.8	96	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	7.3	81	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	4.6	52	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	1.9	32	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	7.1	31	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	4.6	44	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	39	U	4.1	39	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	4.4	60	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	4.7	54	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	4.0	36	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	11	91	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	6.5	43	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	5.1	54	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	2.1	17	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	14	97	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	1.6	32	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	11	130	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	10	38	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	49	U	3.1	49	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	9.8	130	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	7.4	38	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	5.4	96	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	7.1	74	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	38	U	2.6	38	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	2.3	25	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	33	330	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.2	34	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	4.4	47	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	11	38	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	3.0	38	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	6.5	34	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	2.3	36	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	2.2	23	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	2.4	27	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	2.6	27	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	27	230	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	11	110	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	4.3	66	N
63-2009	5	TWF63-23-304075	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	7.5	53	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	4.6	J	2.4	35	Y
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	100	NQ	2.5	39	Y
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	1.9	16	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	91	U	13	91	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	29	U	1.5	29	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	120	U	10	120	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	35	U	9.8	35	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	27	U	1.7	27	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	33	U	2.2	33	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	21	U	2.0	21	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	25	U	2.1	25	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	68	U	6.0	68	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	88	U	4.9	88	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	69	U	6.4	69	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	23	U	2.1	23	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	39	U	4.4	39	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	110	U	34	110	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.2	60	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	76	U	9.8	76	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	18	U	1.1	18	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	20	100	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.5	90	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	74	U	6.8	74	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	48	U	4.2	48	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	29	U	1.8	29	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	6.3	29	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	2.4	25	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	220	U	25	220	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	9.7	100	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	61	U	4.0	61	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	49	U	6.8	49	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	29	U	4.5	29	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	3.4	29	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	40	U	4.3	40	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	36	U	3.8	36	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	55	U	4.1	55	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	50	U	4.3	50	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	33	U	3.7	33	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	85	U	10	85	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	39	U	6.0	39	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	49	U	4.7	49	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	310	U	31	310	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	31	U	7.4	31	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	43	U	4.0	43	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.0	29	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	26	U	1.6	26	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	34	U	1.3	34	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	43	U	2.6	43	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	45	U	2.9	45	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	120	U	9.0	120	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	35	U	6.9	35	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	55	U	4.1	55	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	31	U	3.6	31	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	31	U	1.7	31	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	37	U	2.4	37	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	33	U	3.4	33	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	33	U	3.8	33	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	35	U	3.1	35	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	43	U	3.4	43	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	35	U	10	35	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	35	U	2.8	35	N
63-2010	5	TWF63-23-304076	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	31	U	6.1	31	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	91	NQ	3.1	47	Y
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	43	U	4.6	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	67	U	5.0	67	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	61	U	5.3	61	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	41	U	4.6	41	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	100	U	12	100	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	48	U	7.6	48	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	60	U	5.8	60	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	370	U	38	370	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	72	U	6.4	72	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	92	U	12	92	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	22	U	1.4	22	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	120	U	25	120	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	110	U	8.1	110	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	91	U	8.4	91	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	59	U	5.2	59	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	36	U	2.2	36	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	35	U	7.9	35	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	49	U	5.3	49	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	140	U	43	140	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	83	U	7.3	83	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	110	U	6.1	110	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	83	U	8.1	83	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	43	U	2.9	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	28	U	2.6	28	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	48	U	5.4	48	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	110	U	16	110	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	36	U	1.9	36	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	13	140	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	43	U	12	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	33	U	2.1	33	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	40	U	2.7	40	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	26	U	2.4	26	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	31	U	2.7	31	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	30	U	3.0	30	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	260	U	31	260	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	130	U	12	130	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	75	U	4.9	75	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	60	U	8.1	60	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	36	U	5.3	36	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	35	U	4.4	35	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	35	U	5.2	35	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	32	U	2.0	32	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	41	U	1.6	41	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	53	U	3.2	53	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	55	U	3.6	55	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	140	U	11	140	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	43	U	8.4	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	19	U	2.4	19	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	38	U	4.3	38	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	37	U	2.2	37	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	46	U	2.9	46	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	40	U	4.2	40	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	40	U	4.5	40	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	43	U	3.8	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	53	U	4.1	53	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	68	U	5.0	68	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	38	U	9.1	38	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	53	U	5.0	53	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	43	U	13	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	43	U	3.5	43	N
63-2011	5	TWF63-23-304077	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	38	U	7.8	38	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	48	NQ	4.1	38	Y
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	11	J	4.4	59	Y
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	35	J	3.1	48	Y
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	93	NQ	2.5	38	Y
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	31	J	7.5	52	Y
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	2300	NQ	2.6	41	Y
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	33	U	3.9	33	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	1.9	33	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	2.5	40	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	3.6	35	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	4.0	35	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	3.3	38	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	3.6	46	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	36	120	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	5.6	64	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	11	82	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	1.2	20	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	22	110	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	6.8	96	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	80	U	7.3	80	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	4.6	52	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	14	97	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	31	U	1.6	31	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	11	130	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	10	38	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	35	U	2.3	35	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	2.1	23	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	2.3	27	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	26	U	2.6	26	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	27	230	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	31	U	1.9	31	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	7.1	31	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	43	U	4.6	43	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	4.6	54	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	1.7	28	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	1.4	36	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	2.8	46	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	9.8	130	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	7.4	38	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	72	U	6.4	72	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	93	U	5.4	93	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	6.9	74	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	2.3	25	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	42	U	4.7	42	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	10	110	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	4.3	66	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	4.9	32	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	3.6	31	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	4.4	31	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	6.5	33	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	4.0	36	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	11	91	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	42	U	6.5	42	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	53	U	5.1	53	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	33	330	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	33	U	8.2	33	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	4.3	46	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	11	38	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	3.0	38	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	59	U	4.4	59	N
63-2012	25	TWF63-23-304078	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	2.1	17	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	5.8	J	4.8	55	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	100	NQ	3.3	52	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	130	NQ	4.3	41	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	27	J	4.7	63	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	67	NQ	7.5	56	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	19	J	3.9	32	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	200	NQ	7.4	78	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	200	NQ	2.7	40	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	9.8	J	5.0	45	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethylene	6400	NQ	2.8	44	Y
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	36	U	4.2	36	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	35	U	2.0	35	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	42	U	2.7	42	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	37	U	3.9	37	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	37	U	4.3	37	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	40	U	3.5	40	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	49	U	3.8	49	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	87	U	11	87	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	21	U	1.3	21	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	24	110	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	7.5	100	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	85	U	7.7	85	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	33	U	2.1	33	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	32	U	7.5	32	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethylene[trans-1,2-]	32	U	4.8	32	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	30	U	1.8	30	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	38	U	1.4	38	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	49	U	2.9	49	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	140	U	10	140	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	40	U	7.9	40	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	77	U	6.8	77	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	46	U	4.9	46	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	57	U	4.9	57	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	38	U	4.2	38	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	97	U	11	97	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	2.3	24	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	29	U	2.5	29	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	28	U	2.8	28	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	29	240	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	11	120	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	70	U	4.6	70	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	34	U	4.9	34	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	100	U	5.9	100	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	2.5	26	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	130	U	40	130	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	68	U	6.0	68	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	63	U	4.7	63	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	2.2	18	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	15	100	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	33	U	1.7	33	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	12	140	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	40	U	11	40	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	31	U	1.9	31	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	38	U	2.5	38	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	45	U	7.1	45	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	56	U	5.4	56	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	350	U	35	350	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	36	U	8.7	36	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	49	U	4.6	49	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	40	U	12	40	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	40	U	3.2	40	N
63-2012	60	TWF63-23-304079	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	36	U	6.9	36	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	34	J	4.1	39	Y
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	340	NQ	2.7	42	Y
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	6.2	J	4.6	52	Y
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	63	NQ	2.6	38	Y
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	15	J	4.7	43	Y
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	5.9	J	3.1	49	Y
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	4.4	60	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	4.7	54	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	4.0	36	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	11	91	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	6.5	43	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	5.1	54	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	34	330	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	5.6	64	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	11	82	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	1.2	20	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	22	110	N

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63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	7.2	96	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	7.4	81	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	1.9	32	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	7.1	31	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	4.7	44	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	37	120	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	6.6	73	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	5.4	96	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	7.1	74	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	2.3	25	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	14	97	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	1.6	32	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	11	130	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	10	38	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	2.3	36	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	2.2	23	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	2.4	27	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	2.6	27	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	27	230	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	11	110	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	4.3	66	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	7.5	53	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	4.9	32	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	3.7	31	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	4.8	31	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	1.7	28	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	1.4	36	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	2.8	47	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	9.8	130	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	7.4	38	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	2.1	17	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	4.0	34	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	1.9	33	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	2.6	40	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	3.7	35	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	4.1	35	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	3.4	38	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	3.7	47	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	4.5	60	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.2	34	N

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63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	4.4	47	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	11	38	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	3.0	38	N
63-2013	25	TWF63-23-304080	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	6.9	34	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	59	NQ	3.9	37	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	13	J	4.2	57	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	17	J	3.0	47	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	29	J	2.5	36	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	32	J	4.5	40	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	12	J	6.8	50	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	1300	NQ	2.6	40	Y
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	32	U	3.8	32	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	1.8	32	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	38	U	2.5	38	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.5	34	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	3.9	34	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	36	U	3.2	36	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	3.5	44	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	35	100	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.4	60	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	10	80	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	1.1	19	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	22	100	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.8	90	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	76	U	7.0	76	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	50	U	4.4	50	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	14	90	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	30	U	1.6	30	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11	100	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	9.8	36	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	28	U	1.7	28	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	34	U	2.3	34	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	2.1	22	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	26	U	2.3	26	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	2.5	25	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	26	200	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	30	U	1.9	30	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	6.7	29	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	42	U	4.4	42	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	4.5	52	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	1.7	27	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	1.3	35	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	2.7	44	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	36	U	7.4	36	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	70	U	6.2	70	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	5.2	91	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	6.6	70	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2.2	24	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	10	100	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	63	U	4.2	63	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	30	U	4.5	30	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	3.5	29	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.4	29	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.5	32	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	34	U	3.8	34	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	11	90	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	6.5	40	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	4.9	51	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	32	300	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	32	U	7.8	32	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	4.2	44	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	11	36	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	36	U	2.9	36	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	57	U	4.2	57	N
63-2013	60	TWF63-23-304081	11/01/2023	11/14/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	2.0	16	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	12	J	7.2	96	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	56-23-5	Carbon Tetrachloride	24	J	3.1	49	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-71-8	Dichlorodifluoromethane	79	NQ	4.1	39	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	18	J	4.4	60	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	127-18-4	Tetrachloroethene	19	J	7.5	53	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	67-66-3	Chloroform	39	NQ	2.6	38	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	3.5	J	2.3	25	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	71-55-6	Trichloroethane[1,1,1-]	40	J	4.7	43	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	79-01-6	Trichloroethene	1700	NQ	2.7	42	Y
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	34	U	4.0	34	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	33	U	1.9	33	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	40	U	2.6	40	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	3.7	35	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	4.1	35	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	38	U	3.4	38	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	3.7	47	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	82	U	11	82	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	20	U	1.2	20	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	110	U	22	110	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	81	U	7.4	81	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	52	U	4.6	52	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	32	U	1.9	32	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	31	U	7.1	31	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	4.8	31	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	1.7	28	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	36	U	1.4	36	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	2.8	47	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	130	U	9.8	130	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	38	U	7.4	38	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	73	U	6.6	73	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	44	U	4.7	44	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	4.7	54	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	36	U	4.0	36	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	91	U	11	91	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	23	U	2.2	23	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	27	U	2.4	27	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	27	U	2.6	27	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	27	230	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	110	U	11	110	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	66	U	4.3	66	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	32	U	4.9	32	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	3.7	31	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	96	U	5.4	96	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	74	U	7.1	74	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	120	U	37	120	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	64	U	5.6	64	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	60	U	4.5	60	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	17	U	2.1	17	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	97	U	14	97	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	32	U	1.6	32	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	11	130	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	10	38	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	36	U	2.3	36	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	6.5	43	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	5.1	54	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	330	U	34	330	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	34	U	8.2	34	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	4.4	47	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	11	38	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	38	U	3.0	38	N
63-2013	60	TWF63-23-304082	11/01/2023	11/15/2023	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	6.9	34	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	37	U	3.9	37	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	57	U	4.2	57	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	4.5	52	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	34	U	3.8	34	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	90	U	11	90	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	6.5	40	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	40	U	2.6	40	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	4.9	51	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	300	U	32	300	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	32	U	7.8	32	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	4.2	44	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	11	36	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	60	U	5.4	60	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	80	U	10	80	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	19	U	1.1	19	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	100	U	22	100	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	90	U	6.8	90	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	76	U	7.0	76	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	50	U	4.4	50	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	30	U	1.9	30	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	29	U	6.7	29	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	42	U	4.4	42	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	100	U	35	100	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	70	U	6.2	70	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	91	U	5.2	91	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	70	U	6.6	70	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	36	U	2.5	36	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	24	U	2.2	24	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	40	U	4.5	40	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	90	U	14	90	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	30	U	1.6	30	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11	100	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	9.8	36	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	28	U	1.7	28	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	34	U	2.3	34	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	22	U	2.1	22	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result ($\mu\text{g}/\text{m}^3$)	Validation Qualifier	Report Method Detection Limit ($\mu\text{g}/\text{m}^3$)	Report Detection Limit ($\mu\text{g}/\text{m}^3$)	Detected
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	26	U	2.3	26	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	25	U	2.5	25	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	26	200	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	100	U	10	100	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	63	U	4.2	63	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	50	U	6.8	50	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	30	U	4.5	30	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	3.5	29	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.4	29	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	1.7	27	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	35	U	1.3	35	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	2.7	44	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	47	U	3.0	47	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	36	U	7.4	36	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	16	U	2.0	16	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	32	U	3.8	32	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	32	U	1.8	32	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	38	U	2.5	38	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.5	34	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	3.9	34	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	36	U	3.2	36	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	3.5	44	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	57	U	4.2	57	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	36	U	2.9	36	N
UNK		TWF63-23-304083	11/01/2023	11/15/2023	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.5	32	N

Notes: Rows in **Bold** font indicate the analyte is detected.

FD = Field Duplicate

FB = Field Blank

U = Non-detect

J = Estimated Value

NQ = no data qualifier

UNK = unknown (there is no location ID for field blank)

Table 3: Current and Previous Analytical Results for Eight Quarters

Well ID (Port(ft))	Constituent	Soil Gas Screening Level (ug/m3)	Q1 2022		Q2 2022		Q3 2022		Q4 2022		Q1 2023		Q2 2023		Q3 2023		Q4 2023	
			2/23/2022		5/31/2022		8/24/2021		11/30/2022		3/1/2023		5/24/2023		8/24/2023		11/1/2023	
			Result ($\mu\text{g}/\text{m}^3$)	Percent of SGSL (%)														
VMW-1 (5) 63-2009	Trichloroethylene	1.94E+04	30	0.2	45	0.2	70	0.4	37	0.2	26	0.1	41	0.2	46	0.2	41	0.2
	Toluene	4.70E+07	-	-	-	-	-	-	3.5	<0.1	-	-	-	-	-	-	-	-
	Tetrachloroethylene	4.08E+05	-	-	-	-	-	-	-	-	-	-	-	-	40.0	<0.1	-	-
	cis-1,2-Dichloroethylene	5.85E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	2.73E+08	-	-	-	-	81	<0.1	-	-	-	-	-	-	18.0	<0.1	-	-
	1,1,1-Trichloroethane	4.86E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethane	1.73E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethylene	1.86E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methylene chloride	5.34E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	1.08E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	m-Xylene	1.01E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Xylene	9.77E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-2 (5) 63-2010	Trichloroethylene	1.94E+04	86	0.4	97	0.5	81	0.4	100	0.5	75	0.4	100	0.5	59	0.3	100	0.5
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	2.73E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	4.86E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Toluene	4.70E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	1.08E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	<0.1	-
VMW-3 (5) 63-2011	Trichloroethylene	1.94E+04	50	0.3	86	0.4	59	0.3	50	0.3	64	0.3	70	0.4	59	0.3	91	0.5
	Toluene	4.70E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	2.73E+08	-	-	-	-	-	-	-	-	-	-	12.0	<0.1	-	-	-	-
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-4 (25) 63-2012	Trichloroethylene	1.57E+05	2200	1.4	2000	1.3	2000	1.3	2000	1.3	2400	1.5	2100	1.3	1800	1.1	2300	1.5
	Tetrachloroethylene	2.63E+06	30	<0.1	33	<0.1	24	<0.1	31	<0.1	31	<0.1	31	<0.1	32	<0.1	31	<0.1
	Carbon tetrachloride	1.06E+05	40	<0.1	33	<0.1	32	<0.1	33	<0.1	47	<0.1	38	<0.1	33	<0.1	35	<0.1
	Chloroform	2.30E+04	68	0.3	78	0.3	78	0.3	73	0.3	78	0.3	83	0.4	73	0.3	93	0.4
	Dichlorodifluoromethane	2.61E+06	54	<0.1	54	<0.1	48	<0.1	44	<0.1	69	<0.1	64	<0.1	50	<0.1	48	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	6.86E+08	-	-	-	-	-	-	15	<0.1	19	<0.1	-	-	-	-	11.0	<0.1
	1,1,1-Trichloroethane	1.16E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-4 (60) 63-2012	Trichloroethylene	9.27E+04	6400	6.9	5900	6.4	4100	4.4	5900	6.4	3100	3.3	5000	5.4	5000	5.4	6400	6.9
	Tetrachloroethylene	2.05E+06	70	<0.1	75	<0.1	33	<0.1	81	<0.1	37	<0.1	57	<0.1	81	<0.1	67	<0.1
	cis-1,2-Dichloroethylene	2.91E+06	14	<0.1	18	<0.1	-	-	15	<0.1	-	-	15	<0.1	10	<0.1	19	<0.1
	Carbon tetrachloride	2.13E+05	100	<0.1	88	<0.1	60	<0.1	82	<0.1	45	<0.1	88	<0.1	88	<0.1	100	<0.1
	Chloroform	4.44E+04	170	0.4	160	0.4	130	0.3	160	0.4	88	0.2	170	0.4	100	0.2	200	0.5
	1,1,1-Trichloroethane	2.34E+08	-	-	-	-	-	-	-	-	-	-	11	<0.1	-	-	9.8	<0.1
	Dichlorodifluoromethane	5.38E+06	120	<0.1	120	<0.1	89	<0.1	110	<0.1	69	<0.1	130	<0.1	120	<0.1	130	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	1.38E+09	25	<0.1	28	<0.1	19	<0.1	31	<0.1	11	<0.1	22	<0.1	23	<0.1	27	<0.1
	Toluene	2.14E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	1.02E+09	-	-	-	-	-	-	-	-	-	-	-	-	-	200	<0.1	-

Well ID (Port(ft))	Constituent	Soil Gas Screening Level (ug/m ³)	Q1 2022		Q2 2022		Q3 2022		Q4 2022		Q1 2023		Q2 2023		Q3 2023		Q4 2023	
			2/23/2022		5/31/2022		8/24/2021		11/30/2022		3/1/2023		5/24/2023		8/24/2023		11/1/2023	
			Result ($\mu\text{g}/\text{m}^3$)	Percent of SGSL (%)														
VMW-5 (60) 63-2013(FD)	1,1,1-Trichloroethane	1.16E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	2.61E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichloroethylene	9.27E+04	-	-	-	-	-	-	1200	1.3	1000	1.1	970	1.0	1100	1.2	1700	1.8
	Carbon tetrachloride	2.13E+05	-	-	-	-	-	-	16	<0.1	18	<0.1	13	<0.1	14	<0.1	24	<0.1
	1,1,1-Trichloroethane	2.34E+08	-	-	-	-	-	-	28	<0.1	25	<0.1	26	<0.1	27	<0.1	40	<0.1
	Dichlorodifluoromethane	5.38E+06	-	-	-	-	-	-	54	<0.1	64	<0.1	50	<0.1	59	<0.1	79	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	1.38E+09	-	-	-	-	-	-	15	<0.1	12	<0.1	9.2	<0.1	-	-	18	<0.1
	Chloroform	4.44E+04	-	-	-	-	-	-	21	<0.1	22	<0.1	20	<0.1	24	0.1	39	<0.1
	Methylethylketone (2-butanone)	2.27E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethylene	2.63E+06	-	-	-	-	-	-	-	-	-	-	9.5	<0.1	-	-	19	<0.1
	1,2,4-Trimethylbenzene	4.12E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon Disulfide	2.59E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	N/A
	Benzene	1.54E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	<0.1

Notes: FD = Field Duplicate

"-" = Non-Detect

SGSL = Soil Gas Screening Level

Table 4: Statistical Analyses

	VMW-1 5ft ($\mu\text{g}/\text{m}^3$)	VMW-2 5ft ($\mu\text{g}/\text{m}^3$)	VMW-3 5ft ($\mu\text{g}/\text{m}^3$)	VMW-4 25ft ($\mu\text{g}/\text{m}^3$)	VMW-4 60ft ($\mu\text{g}/\text{m}^3$)	VMW-5 25ft ($\mu\text{g}/\text{m}^3$)	VMW-5 60ft ($\mu\text{g}/\text{m}^3$)
2017 Quarter 1	64.4	134	69.8	3810	8060	483	1340
2018 Quarter 1	31.1	80.6	64.4	2793	6982	258	1343
2018 Quarter 2	48.3	129	96.7	3437	8593	414	1557
2018 Quarter 3	53.7	85.9	59.1	2954	8056	344	1504
2018 Quarter 4	43.5	107	75.2	2900	8056	365	1396
2019 Quarter 1	36	113	85.9	2900	7520	360	1400
2019 Quarter 2	44	118	107	2790	7520	360	1560
2019 Quarter 3	59.1	102	85.9	3010	8590	424	1500
2019 Quarter 4	40.3	96.7	64.4	2790	6980	338	1400
2020 Quarter 1	41.9	102	75.2	2740	7520	392	1500
2020 Quarter 2	41	97	97	2800	7500	380	1400
2020 Quarter 3	59	86	75	2600	7500	390	1400
2020 Quarter 4	44	130	86	2600	7500	400	1300
2021 Quarter 1	43	97	75	2600	7000	360	1300
2021 Quarter 2	41	100	97	2500	7500	360	1300
2021 Quarter 3	50	70	59	2100	6400	310	1200
2021 Quarter 4	40	100	75	2200	6400	300	1200
2022 Quarter 1	30	86	50	2200	6400	350	1200
2022 Quarter 2	45	97	86	2000	5900	300	1200
2022 Quarter 3	70	81	59	2000	4100	310	1200
2022 Quarter 4	37	100	50	2000	5900	300	1200
2023 Quarter 1	26	75	64	2400	3100	280	1000
2023 Quarter 2	41	100	70	2100	5000	290	1000
2023 Quarter 3	44	59	59	1800	5000	280	970
2023 Quarter 4	41	100	91	2300	6400	340	1300
Mean (M)	44.6	97.8	75.1	2573.0	6779.1	347.5	1306.8
Standard Deviation (SD)[n-1]	10.3	18.1	15.6	477.4	1361.5	53.0	165.3
Lower Limit (95% = M - 2 × SD)	23.9	61.6	43.8	1618.2	4056.0	241.6	976.2
Upper Limit (95% = M + 2 × SD)	65.2	134.1	106.3	3527.7	9502.2	453.5	1637.4
Lower Limit (99% = M - 3 × SD)				1140.9		188.6	
Upper Limit (99% = M + 3 × SD)				4005.0		506.4	

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SAMPLE COLLECTION LOGS

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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304075

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		0024	MEDIA:	GAS	
SWMU/AOC:	TA-63	OK	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2009		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:	YES / NO	NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # N2S41

FIELD PARAMETERS:

Sample Time 0024 HH:MM

CH₄ = 0.0 % CO₂ = 12.100 ppm O₂ = 19.5 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Stenbo

REVIEWED BY (PRINT): m. stenbo

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 1230	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304076

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	o k
TIME COLLECTED (HH:MM):		0945	MEDIA:	GAS	
SWMU/AOC:	TA-63	o k	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2010		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft	↓	EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	T015	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 8263

FIELD PARAMETERS:

Sample Time 0945 HH:MM

$\text{CH}_4 = 0.0\%$ $\text{CO}_2 = 6400 \text{ ppm}$ $\text{O}_2 = 20.4\%$ $\text{VOC} = 0.0 \text{ ppm}$

COLLECTED BY (PRINT): A. Vist

REVIEWED BY (PRINT): M. Starkey

RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304077

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	gk
TIME COLLECTED (HH:MM):		1007	MEDIA:	GAS	
SWMU/AOC:	TA-63	04	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2011		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:	YES / NO	NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
A	T015	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa #04524

FIELD PARAMETERS:

Sample Time 1007 HH:MM

CH₄ = 0.0 % CO₂ = 5000 ppm O₂ = 20.7 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Shender

REVIEWED BY (PRINT): m-stasins

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 1230	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304078

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		10:00	MEDIA:	GAS	
SWMU/AOC:	TA-63	OK	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25 ft		EXCAVATED:	YES / NO	NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
WT	T015	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # N2131

FIELD PARAMETERS:

Sample Time 10:00 HH:MM

 $\text{CH}_4 = 0.0 \text{ \%}$ $\text{CO}_2 = 13 \text{ ppm}$ $\text{O}_2 = 19.8 \text{ \%}$ $\text{VOL} = 0.3 \text{ ppm}$

COLLECTED BY (PRINT): A. Visi

REVIEWED BY (PRINT): M. Stasny

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 12:30	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 12:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304079

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>	<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):		11:06	MEDIA:	GAS
SWMU/AOC:	TA-63	06	SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2012		FIELD PREP:	NA
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG
TOP DEPTH:	59 ft		SAMPLE USAGE:	INV
BOTTOM DEPTH:	60 ft		EXCAVATED:	YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
A	T015	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 9212

FIELD PARAMETERS:

Sample Time 11:06 HH:MM

$$\text{CH}_4 = 0.0 \% \quad \text{CO}_2 = 15600 \text{ ppm} \quad \text{O}_2 = 19.5 \% \text{ VOC} = 1.2 \text{ ppm}$$

COLLECTED BY (PRINT): M. Shendo

REVIEWED BY (PRINT): m. stasy

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 12:30	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 12:3
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304080

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		1128	MEDIA:	GAS	
SWMU/AOC:	TA-63	ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25 ft		EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
MA	T015	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS:

Summit # 9189

FIELD PARAMETERS:

Sample Time 1128 HH:MM

 $\text{CH}_4 = 0.0 \text{ \%}$ $\text{CO}_2 = 0.0 \text{ \%}$ ppm $\text{O}_2 = 18.3 \text{ \%}$ VOC = 0.0 ppm

COLLECTED BY (PRINT):

A. Visi /

REVIEWED BY (PRINT):

m. staff

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 1230	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 123
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304081

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>	<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS
TIME COLLECTED (HH:MM):		11:00	MEDIA:	GAS
SWMU/AOC:	TA-63	ok	SAMPLE TECH CODE:	VOST
LOCATION ID:	63-2013		FIELD PREP:	NA
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG
TOP DEPTH:	59 ft		SAMPLE USAGE:	INV
BOTTOM DEPTH:	60 ft	↓	EXCAVATED:	YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NT	TO15	6 Liter Summa Canister	1	NONE	✓	6 Liter Summa

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 7643

FIELD PARAMETERS:

Sample Time 11:00 HH:MM

CH₄ = 0.0 % CO₂ = 25200 ppm O₂ = 19.3 % VOC = 0.1 ppm

COLLECTED BY (PRINT): M. Shenclo

REVIEWED BY (PRINT): Mr. Stasym

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 12:30	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 12:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304082

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		11:45	MEDIA:	G140	
SWMU/AOC:	TA-63	OK	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	FD	
TOP DEPTH:	59 ft		SAMPLE USAGE:	QC	✓
BOTTOM DEPTH:	60 ft	↓	EXCAVATED:	YES / NO / NA	NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	TO15	6 Liter Summa Canister	1	NONE	✓	6 Liter Summa

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 33983

FIELD PARAMETERS:

Sample Time 11:45 HH:MM

$$\text{CH}_4 = 0.0 \% \quad \text{CO}_2 = 25200 \text{ ppm} \quad \text{O}_2 = 19.3 \% \quad \text{VOC} = 0.1 \text{ ppm}$$

COLLECTED BY (PRINT): M. Shendlo

REVIEWED BY (PRINT): M. J. Jafra

RELINQUISHED BY (Printed Name) mesissa shendlo (Signature)	Date/Time 11/01/2023 11:45	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/01/2023 11:45
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15769

EVENT NAME: CY 23 - November - Poregas Sampling - Q3 - TWF - TA-63

SAMPLE ID: TWF63-23-304083

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):		11/01/2023	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1210	MEDIA:	Nitrogen	
SWMU/AOC:	TA-63	ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft		FIELD QC TYPE:	FB	
TOP DEPTH:	NA		SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	NA	↓	EXCAVATED:	YES / NO	NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	T015	6 Liter Summa Canister	1	NONE	1	6 Liter Summa

SAMPLE COMMENTS:

QC sample of TWF63-23-3040

LOCATION COMMENTS:

Summa # 00383

FIELD PARAMETERS:

Sample Time 1210 HH:MM

COLLECTED BY (PRINT): M. Shendo

REVIEWED BY (PRINT): m - Stasym

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 11/01/2023 1230	RECEIVED BY (Printed Name) (Signature)	Date/Time 11/1/23 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/30/2023