ESHID-603828

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-24-076
Date: March 28, 2024
LA-UR: 24-22378

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 2024, Quarter 1, January

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 2024, Quarter 1, January* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit, EPA ID# NM0890010515 (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 2024, Quarter 1 sampling conducted on January 31, 2024. The sampling results indicate that vapor concentrations at the site do not exceed the soil gas screening levels established by the Permit.

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 (505) 901-3824 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)
Digitally signed by STEVEN STORY (Affiliate)
Date: 2024.03.14 19:04:37 -06'00'

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

Sincerely,

ROBERT GALLEGOS
Digitally signed by ROBERT GALLEGOS
Date: 2024.03.27 17:06:27 -06'00'

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 2024, Quarter 1, January*

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
M. Lee Bishop, NA-LA, lee.bishop@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 Payne, ALDESHQ, jpayn@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Steven L. Story, Triad, EPC-DO, story@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

COPY

Los Alamos NATIONAL LABORATORY

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-24-076
Date: March 28, 2024
LA-UR: 24-22378

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 2024, Quarter 1, January

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 2024, Quarter 1, January* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit, EPA ID# NM0890010515 (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 2024, Quarter 1 sampling conducted on January 31, 2024. The sampling results indicate that vapor concentrations at the site do not exceed the soil gas screening levels established by the Permit.

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 (505) 901-3824 or by email at robert.gallegos@nnsa.doe.gov or Jason Hill (Triad) at (505) 551-2218 or by email at jshill@lanl.gov.

ENCLOSURE

Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Calendar Year 2024, Quarter 1, January

Date: March 28, 2024

EPC-DO-24-076
LA-UR-24-22378

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

[This page is intentionally blank.]

CERTIFICATION

[This page is intentionally blank.]

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: 2024.03.14 19:06:07 -06'00'

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

Date Signed

ROBERT GALLEGOS Digitally signed by ROBERT GALLEGOS Date: 2024.03.27 17:07:16 -06'00'

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

[This page is intentionally blank.]

Technical Area 63 Transuranic Waste Facility
Soil Vapor Monitoring System Report, Calendar Year 2024, Quarter 1, January

I Introduction

This report provides the calendar year (CY) 2024, Quarter 1, January (CY2024, Quarter 1) 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 CY2024, Quarter 1 confirm that VOC concentrations in the soil gas at the site are stable and do not exceed the screening levels established by the Permit.

The report presents the background of the soil vapor sampling conducted at the TWF, the soil vapor sampling, soil vapor sampling results, and statistics regarding the data set as part of an ongoing review to determine the need for continued sampling on a quarterly basis. Tables in the report present the data in several ways.

Table 1, *Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – CY2024, Quarter 1*, 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 soil gas screening level (SGSL), presented in Table 1, for comparison with the analytical results. Relative constituent concentrations are demonstrated using a calculated percentage of the analytical results to the SGSLs.

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 – CY2024, Quarter 1*. These data include all detect and non-detect analytical results.

New Mexico Environment Department-Hazardous Waste Bureau (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.

II Background

On December 23, 2013, the 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-five quarters are listed in the references section (LANL 2017 through LANL 2023e).

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 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).

III Soil Vapor Sampling

Field work for the CY2024, Quarter 1 sampling event occurred on January 31, 2024. 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. For all of the vapor monitoring wells, the most regularly detected constituent is TCE, consistently exhibiting the highest concentration levels among the detected VOCs at the site. Chloroform, dichlorodifluoromethane, tetrachloroethylene, trichloro-1,2,2-trifluoroethane[1,1,2-], and carbon tetrachloride are also routinely detected in the vapor monitoring wells. The analytical data are discussed below.

TCE is detected in all five of the vapor monitoring 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 ($\mu g/m^3$) (1.5% of the SGSL) and 6400 $\mu g/m^3$ (6.9% of the SGSL) at the 60-ft port depth. The TCE concentration measured in VMW-5 at the 25-ft port depth is 370 $\mu g/m^3$ (0.2% of the SGSL) and 1500 $\mu g/m^3$ (1.6% of the SGSL) at the 60-ft port depth. 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 0.4%, 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 78 µg/m^3 (0.3% of the SGSL) and 160 µg/m^3 (0.4% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively. The concentrations of chloroform in vapor monitoring well VMW-5 are 47 µg/m^3 (0.2% of the SGSL) and 25 µg/m^3 (J-qualified or estimated) (<0.1% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively. In CY2023, Quarter 4, the sample results from well VMW-2, 5-ft sampling port indicated 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 was 4.6 µg/m^3 (J) (<0.1% of the SGSL). The sampling results for this quarter indicate the presence of chloroform in VMW-2, 5-ft sampling port again; the concentration is 4.1 µg/m^3 (J) (<0.1% of the SGSL).

Vapor monitoring wells VMW-4 and VMW-5 also consistently demonstrate concentrations above the laboratory report detection limits for dichlorodifluoromethane, tetrachloroethylene, trichloro-1,2,2-trifluoroethane[1,1,2-], and carbon tetrachloride. The concentrations for these VOCs are very low at 0.1% or less of the relevant SGSLs.

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. Constituents that are not listed in the Permit Tables are also occasionally detected and reported. These detects are discussed below. Based on communications from NMED-HWB (NMED 2022), monitoring for the constituents will be continued.

The field duplicate sample for vapor monitoring well VMW-5, 60-ft port has demonstrated the presence of several constituents over the sampling period. Tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), and 2-butanone were first detected in a duplicate sample in CY2020, Quarter 1. The Permit Tables list 2-butanone (methylethylketone), but do not list the other constituents. In CY2021, Quarter 3 the field duplicate demonstrated a detection of ethanol which is not a constituent of concern. CY2023, Quarter 4 results for the field duplicate indicated the presence of carbon disulfide and benzene. Both constituents are included in the Permit Tables. There were no field duplicate anomalies to report for the CY2024, Quarter 1 sampling event.

CY2021, Quarter 4 analytical results for the sample collected from VMW-1 indicated the detection of xylene[1,3-]+xylene[1,4-] (m-xylene and p-xylene), below the laboratory report detection limit. These constituents are included in the Permit Tables. Data confirm that there are no detections for xylene isomers at VMW-1 for CY2024, Quarter 1.

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. The constituents have been detected in the 5-ft port of VMW-1 and in both the 25 and 60-ft ports in VMW-4. The CY2024, Quarter 1 analytical results do not indicate the presence of propanol[2-] or ethanol in these monitoring wells.

Bromodichloromethane was previously detected in VMW-4, 25-ft port in CY 2019, Quarter 3. Bromodichloromethane is not included as a constituent of concern in the Permit Tables, so the results cannot be compared to a SGSL; however, the results are well below the report detection limit and estimated (J-flagged). The analytical results for the CY 2024, Quarter 1 indicate the presence of

bromodichloromethane in the VMW-4, in both the 25-ft and the 60-ft sampling ports. The concentrations of the constituent are 4.5 µg/m^3 (J) and 5.9 µg/m^3 (J), respectively.

A faulty nitrogen tank resulted in field blank sample issues starting in CY2019, Quarter 1 through CY2021, Quarter 1 (LANL 2019a through LANL 2021b). Analytical results 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. 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. The CY2024, Quarter 1 results for the field blank did not indicate the presence of ethylbenzene or xylene isomers. 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.

To date, the detected TCE concentrations remain within three standard deviations of the mean concentration for each vapor monitoring well and sampling port. Therefore, the TCE concentration data appear to be in statistical control, which indicates that there are no significant deviations from the mean. This also indicates that TCE concentrations across all sampling quarters are relatively stable over time.

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 mostly flat. Although the trend lines for VMW-3, VMW-4 (60 ft), and VMW-5 (60ft) appear to have slight positive slopes over the last eight quarters, the statistical analysis of TCE concentrations over all quarters indicates that the data are relatively stable for all wells and sampling ports in the long term. The concentrations detected are also significantly below the permitted maximum SGSL constituent concentrations for TCE (by at least one order of magnitude). Additionally, there does not appear to be a relationship between well results that would indicate seasonal variations.

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, August 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.

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.

LANL 2023e. “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,” (EPC-DO-23-379) of December 18, 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.

[This page is intentionally blank.]

FIGURES AND TABLES

[This page is intentionally blank.]

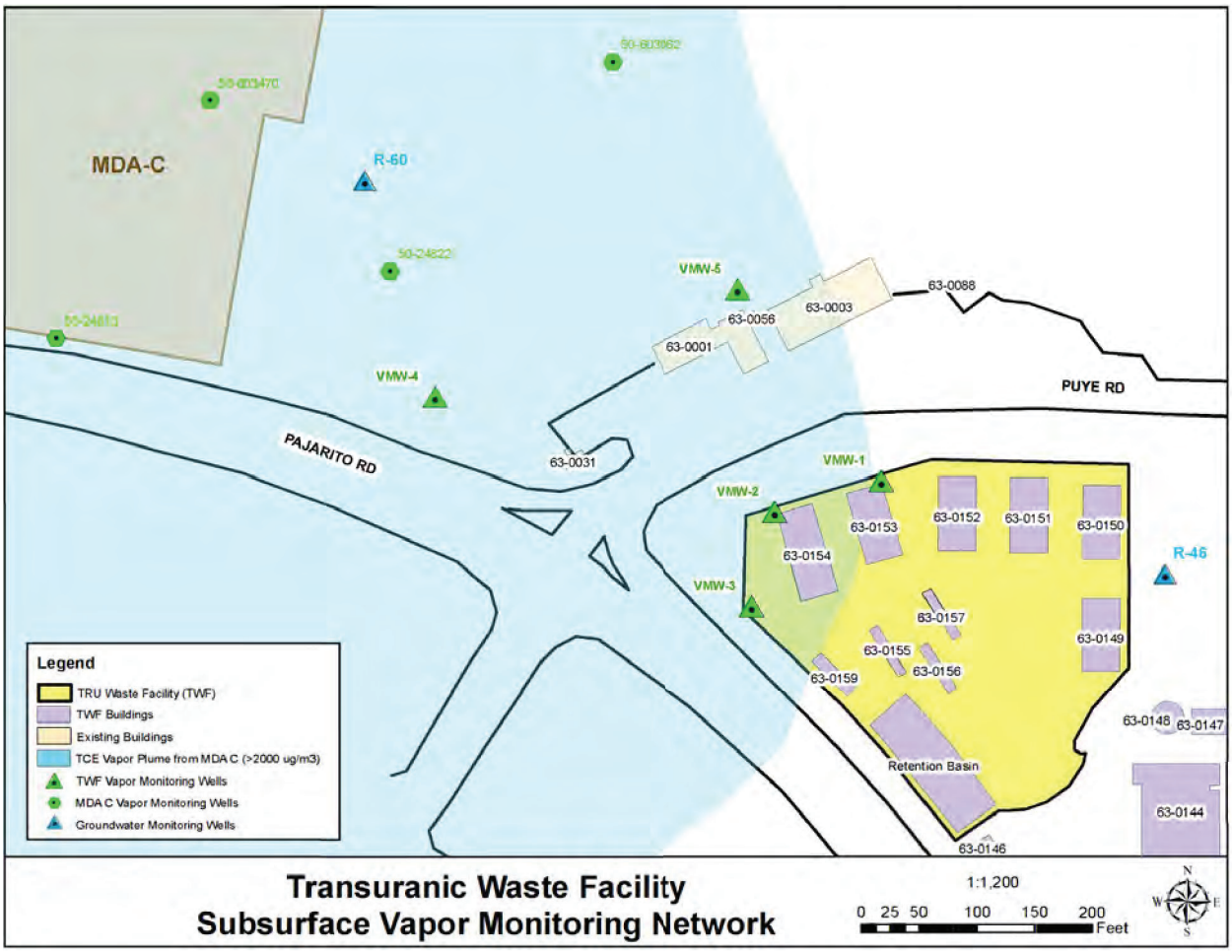
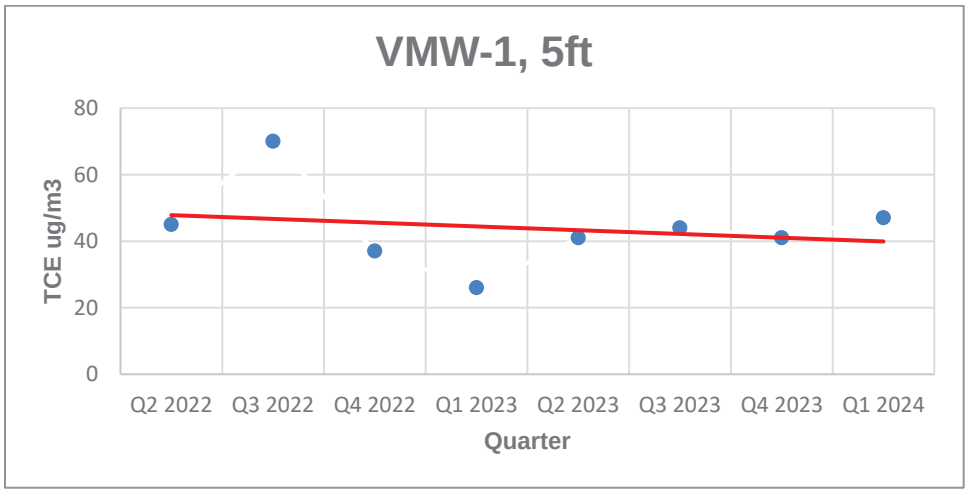
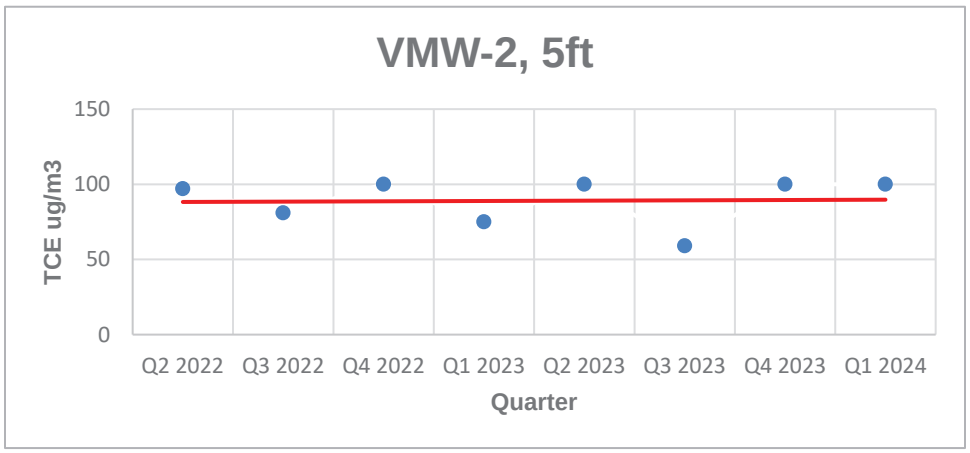


Figure 1. Soil vapor monitoring well locations at TA-63 TWF.





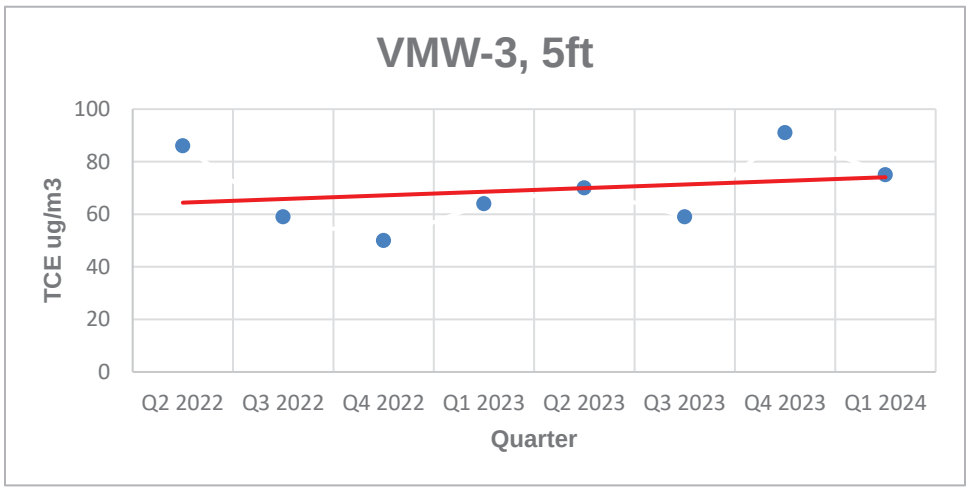


Figure 2. Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit.

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

[This page is intentionally blank.]

Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – CY2024 Quarter 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-1 (63-2009)	TWF63-24-307404	5	REG	Trichloroethene	Trichloroethylene	47	NQ	40	1.94E+04	0.2
	TWF63-24-307404	5	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	9.8	J	40	4.86E+07	<0.1
	TWF63-24-307404	5	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	5.4	J	37	1.03E+06	<0.1
	TWF63-24-307404	5	REG	Toluene	Toluene	2.4	J	28	4.70E+07	<0.1
VMW-2 (63-2010)	TWF63-24-307405	5	REG	Chloroform	Chloroform	4.1	J	36	1.08E+04	<0.1
	TWF63-24-307405	5	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	4.6	J	40	4.86E+07	<0.1
	TWF63-24-307405	5	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	5.9	J	37	1.03E+06	<0.1
	TWF63-24-307405	5	REG	Trichloroethene	Trichloroethylene	100	NQ	40	1.94E+04	0.5
VMW-3 (63-2011)	TWF63-24-307406	5	REG	Trichloroethene	Trichloroethylene	75	J+	40	1.94E+04	0.4
	TWF63-24-307406	5	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	4.3	J	37	1.03E+06	<0.1
VMW-4 (63-2012)	TWF63-24-307407	25	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	44	NQ	38	2.61E+06	<0.1
	TWF63-24-307407	25	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	10	J	58	6.86E+08	<0.1
	TWF63-24-307407	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	31	J	48	1.06E+05	<0.1
	TWF63-24-307407	25	REG	Chloroform	Chloroform	78	NQ	37	2.30E+04	0.3
	TWF63-24-307407	25	REG	Tetrachloroethene	Tetrachloroethylene	30	J	52	2.63E+06	<0.1
	TWF63-24-307407	25	REG	Bromodichloromethane	N/A	4.5	J	51	N/A	N/A
	TWF63-24-307407	25	REG	Trichloroethene	Trichloroethylene	2300	NQ	41	1.57E+05	1.5
VMW-4 (63-2012)	TWF63-24-307408	60	REG	Bromodichloromethane	N/A	5.9	J	50	N/A	N/A
	TWF63-24-307408	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	75	NQ	47	2.13E+05	<0.1
	TWF63-24-307408	60	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	100	NQ	37	5.38E+06	<0.1
	TWF63-24-307408	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	23	J	57	1.38E+09	<0.1
	TWF63-24-307408	60	REG	Tetrachloroethene	Tetrachloroethylene	60	NQ	50	2.05E+06	<0.1
	TWF63-24-307408	60	REG	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	13	J	29	2.91E+06	<0.1
	TWF63-24-307408	60	REG	Trichlorofluoromethane	Trichlorofluoromethane	5.6	J	42	3.01E+07	<0.1
	TWF63-24-307408	60	REG	Chloroform	Chloroform	160	NQ	36	4.44E+04	0.4
	TWF63-24-307408	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	9.3	J	40	2.34E+08	<0.1
	TWF63-24-307408	60	REG	Trichloroethene	Trichloroethylene	6400	NQ	40	9.27E+04	6.9

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)	TWF63-24-307409	25	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	29	J	38	2.61E+06	<0.1
	TWF63-24-307409	25	REG	Trichloroethene	Trichloroethylene	370	NQ	41	1.57E+05	0.2
	TWF63-24-307409	25	REG	Chloroform	Chloroform	47	NQ	38	2.30E+04	0.2
	TWF63-24-307409	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	14	J	42	1.16E+08	<0.1
	TWF63-24-307409	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	4.0	J	48	1.06E+05	<0.1
VMW-5 (63-2013)	TWF63-24-307410	60	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	49	NQ	39	5.38E+06	<0.1
	TWF63-24-307410	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	13	J	60	1.38E+09	<0.1
	TWF63-24-307410	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	16	J	49	2.13E+05	<0.1
	TWF63-24-307410	60	REG	Chloroform	Chloroform	25	J	38	4.44E+04	<0.1
	TWF63-24-307410	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	26	J	43	2.34E+08	<0.1
	TWF63-24-307410	60	REG	Tetrachloroethene	Tetrachloroethylene	13	J	53	2.05E+06	<0.1
	TWF63-24-307410	60	REG	Trichloroethene	Trichloroethylene	1500	NQ	42	9.27E+04	1.6
Field Duplicate	TWF63-24-307411	60	FD	Carbon Tetrachloride	Carbon Tetrachloride	15	J	48	2.13E+05	<0.1
	TWF63-24-307411	60	FD	Dichlorodifluoromethane	Dichlorodiflouromethane	46	NQ	38	5.38E+06	<0.1
	TWF63-24-307411	60	FD	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	12	J	58	1.38E+09	<0.1
	TWF63-24-307411	60	FD	Chloroform	Chloroform	23	J	37	4.44E+04	<0.1
	TWF63-24-307411	60	FD	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	25	J	41	2.34E+08	<0.1
	TWF63-24-307411	60	FD	Trichloroethene	Trichloroethylene	1300	NQ	41	9.27E+04	1.4

Notes: EPA Data Qualifier "J" indicates analytes that are detected but results are estimated as less than the report detection limit
EPA Data Qualifier “J+” indicates a potential high bias of J-flagged results.
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 – CY2024 Quarter 1

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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	23	U	6.2	70	N
63-2009	**5**	**TWF63-24-307404**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**10**	**J**	**4.5**	**40**	**Y**
63-2009	**5**	**TWF63-24-307404**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**5**	**J**	**3.9**	**37**	**Y**
63-2009	**5**	**TWF63-24-307404**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**108-88-3**	**Toluene**	**2**	**J**	**1.7**	**28**	**Y**
63-2009	**5**	**TWF63-24-307404**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**47**	**NQ**	**2.5**	**40**	**Y**
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	35.0	100	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.4	60	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	10.0	80	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	1.1	19	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	21.0	100	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.5	90	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	76	U	7.0	76	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	50	U	4.4	50	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	5.2	91	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	6.6	70	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	36	U	2.4	36	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2.2	24	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	47	U	3	47	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	36	U	7	36	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	30	U	1.9	30	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	7	29	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	42	U	4.4	42	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	57	U	4.2	57	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	4.5	52	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	34	U	3.8	34	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	11.0	90	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	6.5	40	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	4.9	51	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	32.0	300	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	2.1	22	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	26	U	2.3	26	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	3	25	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	26.0	200	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	10.0	100	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	63	U	4.2	63	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	2	16	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	13.0	90	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	30	U	2	30	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11	100	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	9.8	36	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	34	U	2.3	34	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	50	U	6.8	50	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	30	U	4.5	30	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	3.5	29	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.4	29	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	1.7	27	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	1.3	35	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	3	44	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	32	U	7.8	32	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	4.2	44	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	11	36	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	36	U	2.9	36	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.5	32	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	32	U	3.8	32	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	1.8	32	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	38	U	2.4	38	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.5	34	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	4	34	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	36	U	3	36	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	3.5	44	N
63-2009	5	TWF63-24-307404	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	57	U	4.2	57	N
63-2010	**5**	**TWF63-24-307405**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**4.1**	**J**	**2.4**	**36**	**Y**
63-2010	**5**	**TWF63-24-307405**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**5**	**J**	**4.5**	**40**	**Y**
63-2010	**5**	**TWF63-24-307405**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**6**	**J**	**3.9**	**37**	**Y**
63-2010	**5**	**TWF63-24-307405**	**01/31/2024**	**02/13/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**100**	**NQ**	**3**	**40**	**Y**
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	32	U	3.8	32	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	2	32	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	38	U	2.4	38	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.5	34	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	3.9	34	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	36	U	3.2	36	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	3.5	44	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	57	U	4.2	57	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	2.0	16	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	13.0	90	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	30	U	1.5	30	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11.0	100	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	10	36	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	28	U	1.7	28	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	34	U	2.3	34	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	2.1	22	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	26	U	2	26	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	2.5	25	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	26.0	200	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	10.0	100	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	63	U	4.2	63	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	50	U	6.8	50	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	30	U	4.5	30	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	4	29	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.4	29	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	1.7	27	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	1.3	35	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	2.6	44	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	47	U	3.0	47	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	36	U	6.9	36	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	70	U	6.2	70	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	5.2	91	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	6.6	70	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2	24	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	35.0	100	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.4	60	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	10	80	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	1.1	19	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	21.0	100	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.5	90	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	76	U	7.0	76	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	50	U	4.4	50	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	30	U	1.9	30	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	6.7	29	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	42	U	4.4	42	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	57	U	4.2	57	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	4.5	52	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	34	U	3.8	34	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	11.0	90	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	6.5	40	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	4.9	51	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	32.0	300	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	32	U	7.8	32	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	4.2	44	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	11	36	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	36	U	2.9	36	N
63-2010	5	TWF63-24-307405	01/31/2024	02/13/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.5	32	N
63-2011	**5**	**TWF63-24-307406**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**75**	**J+**	**2.6**	**40**	**Y**
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	UJ	1.7	27	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	20	U	6.2	70	N
63-2011	**5**	**TWF63-24-307406**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**4.3**	**J**	**3.9**	**37**	**Y**
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	32	U	3.8	32	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	2	32	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	38	U	2.5	38	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.5	34	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	4	34	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	57	U	4.2	57	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	5	52	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	34	U	3.8	34	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	11	90	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	6.5	40	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	4.9	51	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	32.0	300	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	32	U	7.8	32	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	4.2	44	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	11.0	36	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	36	U	3	36	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	3.5	44	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	57	U	4.2	57	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	2.0	16	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	14.0	90	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	30	U	1.6	30	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11.0	100	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	10	36	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	28	U	1.7	28	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	34	U	2	34	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	2	22	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	26	U	2.3	26	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	2.5	25	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	26.0	200	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	10.0	100	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	63	U	4.2	63	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	50	U	7	50	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	30	U	5	30	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	3.5	29	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.4	29	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	1.3	35	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	2.7	44	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	47	U	3.0	47	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	36	U	7.4	36	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	5.2	91	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	6.6	70	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	36	U	3	36	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2.2	24	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	40	U	4.5	40	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	35.0	100	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.4	60	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	10.0	80	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	1.1	19	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	22.0	100	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.8	90	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	76	U	7.0	76	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	50	U	4.4	50	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	30	U	1.9	30	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	6.7	29	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	42	U	4	42	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	36	U	2.9	36	N
63-2011	5	TWF63-24-307406	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.5	32	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	UJ	1.7	27	N
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**127-18-4**	**Tetrachloroethene**	**30**	**J**	**7.5**	**52**	**Y**
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**31**	**J**	**3.1**	**48**	**Y**
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-27-4**	**Bromodichloromethane**	**5**	**J**	**4.5**	**51**	**Y**
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**10**	**J**	**4.3**	**58**	**Y**
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**78**	**NQ**	**2.5**	**37**	**Y**
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**44**	**NQ**	**4.0**	**38**	**Y**
63-2012	**25**	**TWF63-24-307407**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**2300**	**NQ**	**2.6**	**41**	**Y**

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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	33	U	3.9	33	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	1.9	32	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	39	U	2.5	39	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.6	34	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	4.0	34	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	37	U	3	37	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	3.5	46	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	58	U	4	58	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	2.1	17	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	14	90	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	31	U	1.6	31	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11.0	100	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	37	U	10.0	37	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	2	29	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	35	U	2.3	35	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	2	22	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	2	27	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	26	U	2.5	26	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	27.0	200	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	10.0	100	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	65	U	4.3	65	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	31	U	4.5	31	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	30	U	4	30	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	30	U	4.4	30	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	1.4	35	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	2.8	46	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	37	U	7.4	37	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	72	U	6.4	72	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	93	U	5.4	93	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	6.9	70	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2.3	24	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	41	U	4.6	41	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	36.0	100	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.6	60	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	11.0	80	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	1.2	19	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	22	100	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.8	90	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	79	U	7.2	79	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	31	U	1.9	31	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	30	U	6.7	30	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	43	U	4.5	43	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	53	U	4.5	53	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	35	U	4	35	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	11.0	90	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	41	U	6.5	41	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	52	U	5	52	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	33.0	300	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	33	U	7.8	33	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	4	46	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	37	U	11.0	37	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	37	U	3.0	37	N
63-2012	25	TWF63-24-307407	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	6.5	33	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27.0	UJ	1.7	27	N
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-27-4**	**Bromodichloromethane**	**6**	**J**	**4.4**	**50**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-69-4**	**Trichlorofluoromethane**	**6**	**J**	**4.4**	**42**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**156-59-2**	**Dichloroethene[cis-1,2-]**	**13**	**J**	**3.5**	**29**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**9**	**J**	**4.5**	**40**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**23**	**J**	**4.2**	**57**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**127-18-4**	**Tetrachloroethene**	**60**	**NQ**	**6.8**	**50**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**75**	**NQ**	**3.0**	**47**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**160.0**	**NQ**	**2.5**	**36**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**100**	**NQ**	**3.9**	**37**	**Y**
63-2012	**60**	**TWF63-24-307408**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**6400**	**NQ**	**2.6**	**40**	**Y**
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	32	U	3.8	32	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	1.8	32	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	38	U	2.5	38	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.5	34	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	3.9	34	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	36	U	3.2	36	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	4	44	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	57	U	4.2	57	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	2	16	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	14.0	90	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	30	U	1.6	30	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11.0	100	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	9.8	36	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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	28	U	1.7	28	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	34	U	2.3	34	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	2.1	22	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	26	U	2.3	26	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	3	25	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	26.0	200	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	10.0	100	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	35.0	100	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	5.4	60	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	10.0	80	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	1	19	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	22.0	100	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	6.8	90	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	76	U	7.0	76	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	30	U	2	30	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	7	29	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	63	U	4.2	63	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	30	U	4.5	30	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	4.4	29	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	1.3	35	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	3	44	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	36	U	7.4	36	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	70	U	6.2	70	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	91	U	5	91	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	6.6	70	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2	24	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	5	52	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	34	U	3.8	34	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	11.0	90	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	6.5	40	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	4.9	51	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	32	300	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	32	U	7.8	32	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	4.2	44	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	11	36	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	36	U	2.9	36	N
63-2012	60	TWF63-24-307408	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.5	32	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	UJ	1.7	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2013	**25**	**TWF63-24-307409**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**4**	**J**	**3.1**	**48**	**Y**
63-2013	**25**	**TWF63-24-307409**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**14.0**	**J**	**4.7**	**42**	**Y**
63-2013	**25**	**TWF63-24-307409**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**29**	**J**	**4.1**	**38**	**Y**
63-2013	**25**	**TWF63-24-307409**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**47**	**NQ**	**2.5**	**38**	**Y**
63-2013	**25**	**TWF63-24-307409**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**370.0**	**NQ**	**2.6**	**41**	**Y**
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	33	U	3.9	33	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	1.9	33	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	2.5	40	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4	35	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	4.0	35	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	3.3	38	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	4	46	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	59	U	4.4	59	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	2	17	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	14.0	97	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	31	U	2	31	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	11.0	130	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	10.0	38	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	35	U	2.3	35	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	2.1	23	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	2	27	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	26	U	2.6	26	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	27.0	230	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	10.0	110	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	4.3	66	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	52	U	8	52	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	4.9	32	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	4	31	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	4	31	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	1.4	36	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	2.8	46	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	9.8	130	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	7.4	38	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	72	U	6.4	72	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	93	U	5	93	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	7	74	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	2.3	25	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	36.0	120	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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	5.6	64	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	11.0	82	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	1.2	20	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	22.0	110	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	6.8	96	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	80	U	7.3	80	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	4.6	52	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	31	U	1.9	31	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	7.1	31	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	43	U	4.6	43	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	59	U	4.4	59	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	4.6	54	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	4.0	36	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	11.0	91	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	42	U	6.5	42	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	53	U	5.1	53	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	33.0	330	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	33	U	8.2	33	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	4.3	46	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	11	38	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	3.0	38	N
63-2013	25	TWF63-24-307409	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	6.5	33	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	UJ	1.8	28	N
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**127-18-4**	**Tetrachloroethene**	**13**	**J**	**7.5**	**53**	**Y**
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**16**	**J**	**3.1**	**49**	**Y**
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**25**	**J**	**2.6**	**38**	**Y**
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**26**	**J**	**4.8**	**43**	**Y**
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**13**	**J**	**4.4**	**60**	**Y**
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**49**	**NQ**	**4.1**	**39**	**Y**
63-2013	**60**	**TWF63-24-307410**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**1500**	**NQ**	**2.7**	**42**	**Y**
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	4.0	34	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	2.0	33	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	2.6	40	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	3.7	35	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	4.1	35	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	3.4	38	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	4	47	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	4.5	60	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	2	17	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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	14.0	97	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	2	32	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	11.0	130	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	11.0	38	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	2	36	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	2.2	23	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	2	27	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	2.6	27	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	27.0	230	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	11.0	110	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	4.4	66	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	4.9	32	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	3.7	31	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	5	31	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	1.4	36	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	2.8	47	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	9.8	130	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	7.4	38	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	6.6	73	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	5.7	96	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	7.1	74	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	2.4	25	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	37.0	120	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	5.6	64	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	11.0	82	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	1.2	20	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	23.0	110	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	7	96	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	7.4	81	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	4.6	52	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	2.0	32	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	7.1	31	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	4.7	44	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	4.8	54	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	4	36	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	11.0	91	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	6.5	43	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	5	54	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 (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	34.0	330	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.2	34	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	4	47	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	12.0	38	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	3.1	38	N
63-2013	60	TWF63-24-307410	01/31/2024	02/14/2024	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	6.9	34	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	27	UJ	1.7	27	N
63-2013	**60**	**TWF63-24-307411**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**15**	**J**	**3.1**	**48**	**Y**
63-2013	**60**	**TWF63-24-307411**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**67-66-3**	**Chloroform**	**23**	**J**	**2.5**	**37**	**Y**
63-2013	**60**	**TWF63-24-307411**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**25**	**J**	**4.6**	**41**	**Y**
63-2013	**60**	**TWF63-24-307411**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**12**	**J**	**4.3**	**58**	**Y**
63-2013	**60**	**TWF63-24-307411**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**46**	**NQ**	**4.0**	**38**	**Y**
63-2013	**60**	**TWF63-24-307411**	**01/31/2024**	**02/14/2024**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**79-01-6**	**Trichloroethene**	**1300**	**NQ**	**2.6**	**41**	**Y**
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	33	U	3.9	33	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	32	U	1.9	32	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	39	U	2.5	39	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	3.6	34	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	4.0	34	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	37	U	3.3	37	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	3.5	46	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	58	U	4.3	58	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	17	U	2.1	17	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	90	U	14	90	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	31	U	1.6	31	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	11	100	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	37	U	10.0	37	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	29	U	1.8	29	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	35	U	2.3	35	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	22	U	2.1	22	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	27	U	2.3	27	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	26	U	2.5	26	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	27.0	200	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	100	U	10.0	100	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	65	U	4.3	65	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	127-18-4	Tetrachloroethene	52	U	7.5	52	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	31	U	4.5	31	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	30	U	3.6	30	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	30	U	4.4	30	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	35	U	1.4	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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	3	46	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	100	U	9.4	100	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	37	U	7.4	37	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	72	U	6.4	72	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	93	U	5	93	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	70	U	7	70	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	24	U	2.3	24	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	100	U	36.0	100	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	60	U	5.6	60	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	80	U	11.0	80	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	19	U	1.2	19	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	100	U	22	100	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	90	U	6.8	90	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	79	U	7.2	79	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	51	U	4.5	51	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	31	U	2	31	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	30	U	6.7	30	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	43	U	5	43	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	53	U	5	53	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	35	U	3.9	35	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	90	U	11.0	90	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	41	U	6.5	41	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	52	U	5.0	52	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	300	U	33	300	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	33	U	7.8	33	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	4.3	46	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	37	U	11	37	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	37	U	3.0	37	N
63-2013	60	TWF63-24-307411	01/31/2024	02/14/2024	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	6.5	33	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	31	UJ	1.9	31	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	130	U	40.0	130	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	70	U	6.2	70	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	90	U	12.0	90	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	22	U	1	22	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	120	U	25.0	120	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	110	U	7.8	110	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	89	U	8.2	89	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	58	U	5	58	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	35	U	2.1	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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	37	U	4.3	37	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	37	U	2	37	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	44	U	2.8	44	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	39	U	4	39	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	39	U	4.5	39	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	42	U	4	42	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	52	U	4.0	52	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	66	U	4.8	66	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	19	U	2.2	19	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	110	U	16.0	110	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	35	U	1.8	35	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	12.0	140	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	42	U	11	42	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	32	U	2.0	32	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	40	U	2.6	40	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	25	U	2.4	25	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	30	U	2.6	30	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	30	U	2.9	30	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	250	U	30.0	250	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	120	U	12	120	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	81	U	7.2	81	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	110	U	6	110	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	81	U	7.8	81	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	42	U	2.8	42	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	27	U	2.6	27	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	47	U	5.2	47	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	73	U	4.8	73	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	58	U	8.1	58	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	35	U	5	35	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	34	U	4	34	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	34	U	5.2	34	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	40	U	1.5	40	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	52	U	3.1	52	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	54	U	3.5	54	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	140	U	11.0	140	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	42	U	8.4	42	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	34	U	7.9	34	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	48	U	5.1	48	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	43	U	4.5	43	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 (µg/m^3)	Validation Qualifier	Report Method Detection Limit (µg/m^3)	Report Detection Limit (µg/m^3)	Detected
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	66	U	4.8	66	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	60	U	5.2	60	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	40	U	4.4	40	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	100	U	12.0	100	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	47	U	7.6	47	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	46	U	3.0	46	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	59	U	5.6	59	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	360	U	37.0	360	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	37	U	9.1	37	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	52	U	4.8	52	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	42	U	13.0	42	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	42	U	3.3	42	N
UNK		TWF63-24-307412	01/31/2024	02/14/2024	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	37	U	7.4	37	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)	Q2 2022		Q3 2022		Q4 2022		Q1 2023		Q2 2023		Q3 2023		Q4 2023		Q1 2024	
			5/31/2022		8/24/2022		11/30/2022		3/1/2023		5/24/2023		8/24/2023		11/1/2023		1/31/2024	
			Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
VMW-1 (5) 63-2009	Trichloroethylene	1.94E+04	45	0.2	70	0.4	37	0.2	26	0.1	41	0.2	46	0.2	41	0.2	47	0.2
	Toluene	4.70E+07	-	-	-	-	3.5	<0.1	-	-	-	-	-	-	-	-	2.4	<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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	<0.1
	1,1-Dichloroethane	1.73E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethylene	1.86E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	<0.1
	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	97	0.5	81	0.4	100	0.5	75	0.4	100	0.5	59	0.3	100	0.5	100	0.5
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	<0.1
	Acetone	2.73E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	4.86E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	<0.1
	Toluene	4.70E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	1.08E+04	-	-	-	-	-	-	-	-	-	-	-	-	4.6	<0.1	4.1	<0.1
VMW-3 (5) 63-2011	Trichloroethylene	1.94E+04	86	0.4	59	0.3	50	0.3	64	0.3	70	0.4	59	0.3	91	0.5	75	0.4
	Toluene	4.70E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	2.73E+08	-	-	-	-	-	-	-	-	12.0	<0.1	-	-	-	-	-	-
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	<0.1
VMW-4 (25) 63-2012	Trichloroethylene	1.57E+05	2000	1.3	2000	1.3	2000	1.3	2400	1.5	2100	1.3	1800	1.1	2300	1.5	2300	1.5
	Tetrachloroethylene	2.63E+06	33	<0.1	24	<0.1	31	<0.1	31	<0.1	31	<0.1	32	<0.1	31	<0.1	30	<0.1
	Carbon tetrachloride	1.06E+05	33	<0.1	32	<0.1	33	<0.1	47	<0.1	38	<0.1	33	<0.1	35	<0.1	31	<0.1
	Chloroform	2.30E+04	78	0.3	78	0.3	73	0.3	78	0.3	83	0.4	73	0.3	93	0.4	78	0.3
	Dichlorodifluoromethane	2.61E+06	54	<0.1	48	<0.1	44	<0.1	69	<0.1	64	<0.1	50	<0.1	48	<0.1	44	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	6.86E+08	-	-	-	-	15	<0.1	19	<0.1	-	-	-	-	11.0	<0.1	10.0	<0.1
	1,1,1-Trichloroethane	1.16E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-4 (60) 63-2012	Trichloroethylene	9.27E+04	5900	6.4	4100	4.4	5900	6.4	3100	3.3	5000	5.4	5000	5.4	6400	6.9	6400	6.9
	Tetrachloroethylene	2.05E+06	75	<0.1	33	<0.1	81	<0.1	37	<0.1	57	<0.1	81	<0.1	67	<0.1	60	<0.1
	cis-1,2-Dichloroethylene	2.91E+06	18	<0.1	-	-	15	<0.1	-	-	15	<0.1	10	<0.1	19	<0.1	13	<0.1
	Carbon tetrachloride	2.13E+05	88	<0.1	60	<0.1	82	<0.1	45	<0.1	88	<0.1	88	<0.1	100	<0.1	75	<0.1
	Chloroform	4.44E+04	160	0.4	130	0.3	160	0.4	88	0.2	170	0.4	100	0.2	200	0.5	160	0.4
	1,1,1-Trichloroethane	2.34E+08	-	-	-	-	-	-	-	-	11	<0.1	-	-	9.8	<0.1	9.3	<0.1
	Dichlorodifluoromethane	5.38E+06	120	<0.1	89	<0.1	110	<0.1	69	<0.1	130	<0.1	120	<0.1	130	<0.1	100	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	1.38E+09	28	<0.1	19	<0.1	31	<0.1	11	<0.1	22	<0.1	23	<0.1	27	<0.1	23	<0.1
	Toluene	2.14E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Well ID (Port(ft))	Constituent	Soil Gas Screening Level (ug/m3)	Q2 2022		Q3 2022		Q4 2022		Q1 2023		Q2 2023		Q3 2023		Q4 2023		Q1 2024	
			5/31/2022		8/24/2022		11/30/2022		3/1/2023		5/24/2023		8/24/2023		11/1/2023		1/31/2024	
			Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
	Acetone	1.02E+09	-	-	-	-	-	-	-	-	-	-	-	-	200	<0.1	-	-
	Trichlorofluoromethane	3.01E+07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	<0.1
VMW-5 (25) 63-2013	Trichloroethylene	1.57E+05	300	0.2	310	0.2	300	0.2	280	0.2	290	0.2	280	0.2	340	0.2	370	0.2
	Chloroform	2.30E+04	32	0.1	38	0.2	42	0.2	45	0.2	50	0.2	50	0.2	63	0.3	47	0.2
	1,1,1-Trichloroethane	1.16E+08	19	<0.1	-	-	13	<0.1	14	<0.1	13	<0.1	13	<0.1	15	<0.1	14	<0.1
	Dichlorodifluoromethane	2.61E+06	31	<0.1	50	<0.1	31	<0.1	34	<0.1	31	<0.1	36	<0.1	34	<0.1	29	<0.1
	Tetrachloroethylene	2.63E+06	-	-	-	-	-	-	8.8	<0.1	-	-	-	-	-	-	-	-
	Acetone	5.44E+08	-	-	62	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	1.06E+05	-	-	-	-	14	<0.1	-	-	-	-	-	-	5.9	<0.1	4.0	<0.1
VMW-5 (60) 63-2013	Trichloroethylene	9.27E+04	1200	1.3	1200	1.3	1200	1.3	1000	1.1	1000	1.1	970	1.0	1300	1.4	1500	1.6
	Tetrachloroethylene	2.05E+06	-	-	-	-	-	-	12	<0.1	-	-	13	<0.1	12	<0.1	13	<0.1
	Chloroform	4.44E+04	23	<0.1	21	<0.1	21	<0.1	20	<0.1	22	<0.1	22	<0.1	29	<0.1	25	<0.1
	1,1,1-Trichloroethane	2.34E+08	29	<0.1	31	<0.1	28	<0.1	28	<0.1	25	<0.1	26	<0.1	32	<0.1	26	<0.1
	Dichlorodifluoromethane	5.38E+06	54.0	<0.1	50.0	<0.1	54.0	<0.1	50.0	<0.1	54	<0.1	48	<0.1	59	<0.1	49	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	1.38E+09	-	-	-	-	15	<0.1	11	<0.1	-	-	-	-	13.0	<0.1	13.0	<0.1
	Toluene	2.14E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	2.13E+05	16	<0.1	14	<0.1	-	-	15	<0.1	11	<0.1	-	-	17.0	<0.1	16.0	<0.1
	Acetone	1.02E+09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field Duplicates:

Well ID (Port(ft))	Constituent	Soil Gas Screening Level (ug/m3)	Q2 2022		Q3 2022		Q4 2022		Q1 2023		Q2 2023		Q3 2023		Q4 2023		Q1 2024	
			Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
VMW-1 (5) 63-2009(FD)	Trichloroethylene	1.94E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	1.03E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-3 (5) 63-2011(FD)	Trichloroethylene	1.94E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-4 (25) 63-2012(FD)	Trichloroethylene	1.57E+05	2000	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethylene	2.63E+06	33	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	1.06E+05	36	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	2.30E+04	73	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	1.16E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorofluoromethane	2.61E+06	54	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VWM-4 (60) 23-2012(FD)	Trichloroethylene	9.27E+04	-	-	4400	4.7	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethylene	2.05E+06	-	-	45	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,2-Dichloroethylene	2.91E+06	-	-	12	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	2.13E+05	-	-	59	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	4.44E+04	-	-	140	0.3	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	5.38E+06	-	-	94	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	1.02E+09	-	-	38	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2-Trichloro-1,2,2-trifluoroethane	1.38E+09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Well ID (Port(ft))	Constituent	Soil Gas Screening Level (ug/m3)	Q2 2022		Q3 2022		Q4 2022		Q1 2023		Q2 2023		Q3 2023		Q4 2023		Q1 2024	
			5/31/2022		8/24/2022		11/30/2022		3/1/2023		5/24/2023		8/24/2023		11/1/2023		1/31/2024	
			Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)	Result ($\mu g/m^3$)	Percent of SGSL (%)
VMW-5 (25) 63-2013(FD)	Trichloroethylene	1.57E+05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethylene	2.63E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	2.30E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	1.16E+08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	2.61E+06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VMW-5 (60) 63-2013(FD)	Trichloroethylene	9.27E+04	-	-	-	-	1200	1.3	1000	1.1	970	1.0	1100	1.2	1700	1.8	1300	1.4
	Carbon tetrachloride	2.13E+05	-	-	-	-	16	<0.1	18	<0.1	13	<0.1	14	<0.1	24	<0.1	15	<0.1
	1,1,1-Trichloroethane	2.34E+08	-	-	-	-	28	<0.1	25	<0.1	26	<0.1	27	<0.1	40	<0.1	25	<0.1
	Dichlorodifluoromethane	5.38E+06	-	-	-	-	54	<0.1	64	<0.1	50	<0.1	59	<0.1	79	<0.1	46	<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	12	<0.1
	Chloroform	4.44E+04	-	-	-	-	21	<0.1	22	<0.1	20	<0.1	24	0.1	39	<0.1	23	<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 (μg/m^3)	VMW-2 5ft (μg/m^3)	VMW-3 5ft (μg/m^3)	VMW-4 25ft (μg/m^3)	VMW-4 60ft (μg/m^3)	VMW-5 25ft (μg/m^3)	VMW-5 60ft (μg/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
2024 Quarter 1	47	100	75	2300	6400	370	1500
Mean (M)	44.7	97.9	75.1	2562.5	6764.5	348.4	1314.2
Standard Deviation (SD)[n−1]	10.1	17.8	15.3	470.8	1336.1	52.1	166.3
2SD Lower Limit (M−2×SD)	24.4	62.4	44.4	1620.9	4092.3	244.2	981.6
2SD Upper Limit (M+2×SD)	64.9	133.5	105.7	3504.0	9436.7	452.6	1646.9
3SD Lower Limit (M−3×SD)	14.3	44.6	29.1	1150.2	2756.2	192.1	815.3
3SD Upper Limit(M+3×SD)	75.0	151.3	121.0	3974.8	10772.8	504.6	1813.2

[This page is intentionally blank.]

SAMPLE COLLECTION LOGS

[This page is intentionally blank.]

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307404 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		0927	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2009	ok	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 # N0046

FIELD PARAMETERS:

Sample Time: 0927 HH:MM

CH_4 = 0 % CO_2 = 8000 ppm O_2 = 20.0 % VOC = 0.0 ppm

COLLECTED BY (PRINT): A. Visil **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) M. Visil (Signature)	Date/Time 01/31/2024 1250	RECEIVED BY (Printed Name) Sasha Wood (Signature) Sasha Wood	Date/Time 1/31/24 12:50
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: 01/08/2024

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307405 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		09 49	MEDIA:	GAS	↓
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2010	ok	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 # N1761

FIELD PARAMETERS:

Sample Time 09 49 HH:MM

CH_4 = 0 % CO_2 = 5000 ppm O_2 = 20.6 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Jhegno **REVIEWED BY (PRINT):**

	Date/Time		Date/Time
RELINQUISHED BY (Printed Name) (Signature) Melissa Jhegno	01/31/2024 1253	RECEIVED BY (Printed Name) (Signature) Shayna Greenwood	1/31/24 12:50
RELINQUISHED BY (Printed Name) (Signature)		RECEIVED BY (Printed Name) (Signature)	
RELINQUISHED BY (Printed Name) (Signature)		RECEIVED BY (Printed Name) (Signature)	

Report Date: 01/08/2024

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307406 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1009	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2011	ok	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 # 1586

FIELD PARAMETERS:

Sample Time: 1009 HHMM

CH_4 = 0 % CO_2 = 3200 ppm O_2 = 20.9 % VOC = 0.1 ppm

COLLECTED BY (PRINT): M. Sherwood **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) M Elliott (Signature)	Date/Time 01/31/2024 1250	RECEIVED BY (Printed Name) Sherwood (Signature) Sherwood	Date/Time 1/31/24 12:50
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: 01/08/2024

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307407 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1054	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012	ok	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
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa #

FIELD PARAMETERS:

Sample Time 1054 HH:MM

CH_4 = 0 % CO_2 = 10400 ppm O_2 = 19.5 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Sherwood **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) Melissa Stadtmueller (Signature)	Date/Time 01/31/2024 1650	RECEIVED BY (Printed Name) S Sherwood (Signature)	Date/Time 1/31/24 1650
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: 01/08/2024

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307408 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1112	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012	ok	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
N/A	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa# 1043

FIELD PARAMETERS:

Sample Time 1112 HH:MM

CH_4 = 0 % CO_2 = 13800 ppm O_2 = 19.3 % VOC = 1.0 ppm

COLLECTED BY (PRINT): M. Sherwood **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) Melissa Stasiuk (Signature)	Date/Time 01/31/2024 1250	RECEIVED BY (Printed Name) S. Sherwood (Signature)	Date/Time 1/31/24 1250
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: 01/08/2024

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307409 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		11:36	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013	OK	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
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 1416

FIELD PARAMETERS:

Sample Time 1136 HH:MM

CH_4 = 0 % CO_2 = 30400 ppm O_2 = 18.3 % VOC = 0.1 ppm

COLLECTED BY (PRINT): M. Shondo **REVIEWED BY (PRINT):**

	Date/Time		Date/Time
RELINQUISHED BY (Printed Name) Marisa Shondo (Signature) [signature]	01/31/2024 1250	RECEIVED BY (Printed Name) Shawwood (Signature) [signature]	1/31/24 1250
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: 01/08/2024

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307410 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		11:53	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013	OK	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
NA	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 08892

FIELD PARAMETERS:

Sample Time 1153 HH:MM

CH_4 = 0 % CO_2 = 22.00 ppm O_2 = 18.8 % VOC = 0.6 ppm

COLLECTED BY (PRINT): M. Shepard **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) Melissa Stevens (Signature)	Date/Time 01/31/2024 1250	RECEIVED BY (Printed Name) M. Shepard (Signature)	Date/Time 1/31/24 1250
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: 01/08/2024

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307411 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		11:54	MEDIA:	GAS	
SWMU/AOC:		TA-63	SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK	63-2013	FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft	AMS	FIELD QC TYPE:	FD	
TOP DEPTH:		59 ft	SAMPLE USAGE:	QC	
BOTTOM DEPTH:		60 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 2

LOCATION COMMENTS: Summa # 7648

FIELD PARAMETERS:

Sample Time 1154 HHMM

CH_4 = 0 % CO = 22200 ppm O_2 = 18.8 % VOC = 0.6 ppm

COLLECTED BY (PRINT): M. Shendo **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) Melissa Stratton (Signature)	Date/Time 01/31/2024 1230	RECEIVED BY (Printed Name) S Sherwood (Signature)	Date/Time 1/31/24 1258
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: 01/08/2024

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 15896 **EVENT NAME:** CY 2024 - January - TA-63 - TWF - Poregas Sampling

SAMPLE ID: TWF63-24-307412 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):		01/31/2024	FIELD MATRIX:	GAS	Ok
TIME COLLECTED (HH:MM):		1225	MEDIA:	Nitrogen	
SWMU/AOC:		NA	SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft		FIELD QC TYPE:	FB	
TOP DEPTH:			SAMPLE USAGE:	QC	
BOTTOM DEPTH:			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: QC Sample of TWF63-24-30741

LOCATION COMMENTS: Summa # 6024

FIELD PARAMETERS:

Sample Time NA HH:MM

COLLECTED BY (PRINT): M. Shenodd **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	Date/Time 01/31/2024 1250	RECEIVED BY (Printed Name) S. Shenwood (Signature)	Date/Time 1/31/24 1250
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: 01/08/2024