ESHID-603734

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-22-342
Date: December 20, 2022
LA-UR: 22-32765

Mr. Rick Shean, 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, October 2022 (Quarter 21), Los Alamos National Laboratory, EPA ID# NM0890010515

Dear Mr. Shean:

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 entitled *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, October 2022 (Quarter 21)* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit) Part 3, Section 3.14.3.

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 sampling conducted on October 26, 2022, for the twenty-first quarter following the start of operations in October 2017. 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 Karen E. Armijo (NA-LA), at 505-665-7314 or by email at karen.armijo@nnsa.doe.gov or Patrick L. Padilla (Triad) at 505-412-0462 or by email at plpadilla@lanl.gov.

Sincerely,

JENNIFER PAYNE (Affiliate)
Digitally signed by JENNIFER PAYNE (Affiliate)
Date: 2022.12.13 16:10:11 -07'00'

Jennifer E. Payne
Division Leader
Environmental Protection and Compliance Division
Triad National Security, LLC
Los Alamos National Laboratory

Sincerely,

KAREN ARMIJO
Digitally signed by KAREN ARMIJO
Date: 2022.12.15 14:26:13 -07'00'

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

JEP/KEA/PLP

Enclosure: *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, October 2022 (Quarter 21), Los Alamos National Laboratory, EPA ID# NM0890010515*

Copy: Laurie King, USEPA/Region 6, Dallas, TX, king.laurie@epa.gov
Rick Shean, NMED-HWB, Santa Fe, NM, rick.shean@state.nm.us
Neelam Dhawan, NMED-HWB, Santa Fe, NM, neelam.dhawan@state.nm.us
Siona Briley, NMED-HWB, Santa Fe, NM, siona.briley@state.nm.us
Mitchell Schatz, NMED-HWB, Santa Fe, NM, mitchell.schatz@state.nm.us
Theodore A. Wyka, NA-LA, theodore.wyka@nnsa.doe.gov
Stephen Hoffman, NA-LA, stephen.hoffman@nnsa.doe.gov
P. Erika Baeza-Wisdom, NA-LA, erika.wisdom@nnsa.doe.gov
Jason Saenz, NA-LA, jason.saenz@nnsa.doe.gov
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Adrienne L. Nash, NA-LA, adrienne.nash@nnsa.doe.gov
Robert A. Gallegos, NA-LA, robert.gallegos@nnsa.doe.gov
M. Lee Bishop, EM-LA, lee.bishop@em.doe.gov
Steven Coleman, Triad, ALDESHQ, scoleman@lanl.gov
William R. Mairson, Triad, ALDESHQ, wrmairson@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Sylvia de la Sancha, Triad, EWP, sdelasancha@lanl.gov
Jennifer E. Payne, Triad, EPC-DO, jpayne@lanl.gov
Kristen A. Honig, Triad, EPC-DO, khonig@lanl.gov
Andie McLaughlin-Kysar, Triad, EPC-DO, andiek@lanl.gov
Deepika Saikrishnan, Triad, EPC-DO, deepika@lanl.gov
Jessica L. Moseley, Triad, EPC-WMP, jmoseley@lanl.gov
Patrick L. Padilla, Triad, EPC-WMP, plpadilla@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-22-342
Date: December 20, 2022
LA-UR: 22-32765

Mr. Rick Shean, 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, October 2022 (Quarter 21), Los Alamos National Laboratory, EPA ID# NM0890010515

Dear Mr. Shean:

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 entitled *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, October 2022 (Quarter 21)* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit) Part 3, Section 3.14.3.

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 sampling conducted on October 26, 2022, for the twenty-first quarter following the start of operations in October 2017. 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 Karen E. Armijo (NA-LA), at 505-665-7314 or by email at karen.armijo@nnsa.doe.gov or Patrick L. Padilla (Triad) at 505-412-0462 or by email at plpadilla@lanl.gov.

ENCLOSURE

Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, October (Quarter 21),

Los Alamos National Laboratory,

EPA ID# NM0890010515

Date: December 20, 2022

EPC-DO-22-342
LA-UR-22-32765

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

CERTIFICATION

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.

JENNIFER PAYNE (Affiliate) Digitally signed by JENNIFER PAYNE (Affiliate) Date: 2022.12.13 16:10:36 -07'00'

Jennifer E. Payne
Division Leader
Environmental Protection and Compliance Division
Triad National Security, LLC
Los Alamos National Laboratory

Date Signed

KAREN ARMIJO Digitally signed by KAREN ARMIJO Date: 2022.12.15 14:25:45 -07'00'

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

Date Signed

Technical Area 63 Transuranic Waste Facility
Soil Vapor Monitoring System Report, October 2022 (Quarter 21)
Los Alamos National Laboratory, EPA ID# NM0890010515

I Introduction

This report provides the October 2022 (Quarter 21) 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 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 Quarter 21 confirm that VOC concentrations in the soil gas at the site are stable and do not exceed the screening levels established by the Permit. This report also presents a statistical analysis of the soil vapor data as part of an on-going review to determine the need for continued sampling on a quarterly basis.

II Background

On December 23, 2013, the New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) approved a Permit modification for the construction of the TWF. Soil vapor monitoring wells were installed in August 2015 and baseline soil vapor monitoring samples were collected, as required by Permit Part 3, Section 3.14.3, in September 2015. A corresponding report was submitted to the NMED-HWB on October 29, 2015 (LANL 2015). The September 2015 sampling event represents the first quarterly sampling event and coincides with commencement of waste activities at the site. Quarterly reports for the last twenty quarters are listed in the reference section (LANL 2017 through LANL 2022d).

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 VMW-4 and VMW-5 at depths of 25 and 60 ft below the ground surface. Each vapor monitoring well and vapor monitoring port are sampled during quarterly sampling events, for a total of seven (7) vapor samples.

The Permit presents action levels within Permit Part 3, Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3 (Permit Tables) for VOC constituents of concern. Each Permit Table presents soil gas screening levels (SGSLs)

for each of the vapor monitoring well monitoring 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

Field work for the Quarter 21 sampling event occurred on October 26, 2022. 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. A total of eight (8) samples were collected, 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

A summary of the laboratory analytical results for the VOCs detected in Quarter 21 is presented in Table 1, *Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – Quarter 21*. The data continue to demonstrate that detected concentrations of TCE and other VOCs do not exceed the relevant SGSLs in the Permit Tables. Laboratory analyses indicate that some constituents are detected above laboratory report detection limits. Table 1 provides the detected VOCs, both non-qualified and estimated (J-qualified) detections. Each well port depth and constituent of concern have an associated SGSL, presented in Table 1, for comparison with the analytical results. Also included in Table 1 is a calculated percentage of the analytical results compared with the relevant SGSL to demonstrate the relative constituent concentrations compared with the action levels.

Laboratory results are processed through LANL's Sample Management Office for quality assurance/quality control; these data are presented as an Excel file included on the disc submitted with this report. Results for this quarter are also presented in Table 2, *Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – Quarter 21*.

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 Constituents Listed in Permit Tables*, presents the current and previous quarterly soil gas laboratory analytical results for comparison and tracking.

Overall, TCE consistently exhibits the highest level of concentration among the detected VOCs at the site. TCE is present in all five of the vapor sampling wells at all port depths. The detected concentrations are highest closer to MDA C. Vapor monitoring wells VMW-4 and VMW-5 are the closest vapor monitoring wells to MDA C. The TCE concentration measured in VMW-4 (at the 25-ft port depth) is 2000 micrograms per cubic meter ($\mu g/m^3$) (1.3% of the SGSL) and 5900 $\mu g/m^3$ at the 60-ft port depth (6.4% of the SGSL). The TCE concentration measured in VMW-5 at the 25-ft port depth is 300 $\mu g/m^3$ (0.2% of the SGSL) and 1200 $\mu g/m^3$ at the 60-ft port depth (1.3% of the SGSL). The vapor monitoring wells closest to TWF (VMW-1, VMW-2, and VMW-3) demonstrate TCE concentrations that are a fraction of a percent of the relevant SGSLs: 0.2%, 0.5%, and 0.3%, 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 73 $\mu g/m^3$ (0.3% of the SGSL) and 160 $\mu g/m^3$ (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 42 µg/m^3 (0.2% of the SGSL) and 21 µg/m^3 (J-qualified or estimated) (<0.1% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively.

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

Additional Analytic Results Discussion

A notification of additional constituents, as required by Permit Part 3, Section 3.14.3, was submitted to NMED-HWB (LANL 2020b) regarding data anomalies in Quarter 10 (LANL 2020c) for the field duplicate sample collected at vapor monitoring well VMW-5, 60-ft port. The VOCs included tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), and 2-butanone. The Permit Tables list 2-butanone (methylethylketone) but do not list the other constituents. In Quarter 16, the field duplicate for VMW-5, 60-ft port, demonstrated a detection of ethanol at 30 µg/m^3 (J-qualified). The note for this sample indicated that the laboratory control sample percent recovery was less than the lower acceptable limit but greater than or equal to the rejection limit. In Quarter 21, there are no detects of any of these constituents in any of the vapor monitoring wells.

Ethanol and propanol[2-] (isopropyl alcohol) have been detected at estimated (J-qualified) concentrations in vapor monitoring wells VMW-1 and VMW-4 in previous sampling events. Neither of these constituents are listed in the Permit Tables, so there are no associated Permit SGSLs for comparison. In Quarter 12 (LANL 2020e), vapor monitoring well VMW-1, 5-ft port, and VMW-4, 25-ft port, analytical results indicated the presence of ethanol and propanol[2-] (isopropyl alcohol). Quarter 14 (LANL 2021b) analytical results for vapor monitoring well VMW-4, 60-ft port, demonstrated the presence of propanol[2-] (isopropyl alcohol) at 19 µg/m^3. The Quarter 21 sampling results do not indicate the presence of these constituents in any of the vapor monitoring wells.

Field blank sample analytical results starting in Quarter 6 through Quarter 14 (LANL 2019a through LANL 2021b) indicated the presence of ethylbenzene and xylene isomers. At the time, these 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. Field blanks are collected onsite during sampling events to detect and identify contaminants from the sampling site. An ultra-high pure nitrogen tank is used as the vapor source for the field blank. The nitrogen tank is connected to a SUMMA canister, which is then sent to the analytical laboratory, along with the other samples, for analysis. Before the Quarter 15 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 field blank issue appears to be resolved.

On December 16, 2021, notification of a newly detected constituent was made to NMED-HWB (LANL 2021e), as required by Permit Section 3.14.3. The analytical results for the sample collected from VMW-1 indicated the detection of a new constituent, xylene[1,3-]+xylene[1,4-] (m-xylene and p-xylene), below the laboratory report detection limit. Review of the analytical laboratory data did not indicate a data quality error. In correspondence dated August 29, 2022 [NMED 2022], the NMED-HWB indicated that the lack of detection in the Quarter 18 and Quarter 19 sampling events does not rule out the presence of xylene isomers; therefore, continued monitoring for the constituents is required. Data confirm that there are no detections for xylene isomers at VMW-1 for Quarter 21.

V Statistics

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

The detected concentrations of TCE to date remain within the limits of a two standard deviation interval of the sample above and below the statistical mean values, with a confidence probability of 95%. Two near-range exceptions are associated with the data from the 25-ft ports of vapor monitoring wells VMW-4 and VMW-5. A three standard deviation calculation for these wells (see Table 4) demonstrates that the concentrations for data exceptions fall within a range with a confidence probability of 99%. This result means that no significant deviations are observed for the average TCE concentrations for each well and sampling port to that approximate level of confidence.

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

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

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

VI References

LANL 2015. *TA-63 Transuranic Waste Facility Soil Vapor Monitoring System Report*, (ENV-DO-15-0305), October 29, 2015. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2017. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 1, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:17-560), December 21, 2017. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 2, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-139) of March 30, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 3, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-245) of June 28, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 4, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-349) of September 26, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2018d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 5, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:18-448) of December 27, 2018. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2019a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 6, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-103) of April 4, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2019b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 7, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-203) of June 26, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2019c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 8, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-343) of September 30, 2019. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 9, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:19-467) of January 10, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Additional Information, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-121) of March 26, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 10, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-121) of March 30, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 11, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-196) of June 30, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2020e. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 12, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-302) of October 2, 2020. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021a. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 13, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO:20-417) of January 11, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021b. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 14, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO-21-135) of May 3, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021c. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 15, Los Alamos National Laboratory EPA ID #NM0890010515*, (EPC-DO-21-181) of June 28, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021d. *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 16) Los Alamos National Laboratory, EPA ID# NM0890010515*, (EPC-DO-21-295) of October 4, 2021. Los Alamos National Laboratory, Los Alamos, New Mexico.

LANL 2021e. *15-Day Notification of Newly Detected Constituent in Vapor Monitoring Well, Technical Area 63, Transuranic Waste Facility, Los Alamos National Laboratory, EPA ID #0890010515*, (EPC-DO-21-394) of December 16, 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.

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 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.

FIGURES AND TABLES

[this page is intentionally blank]

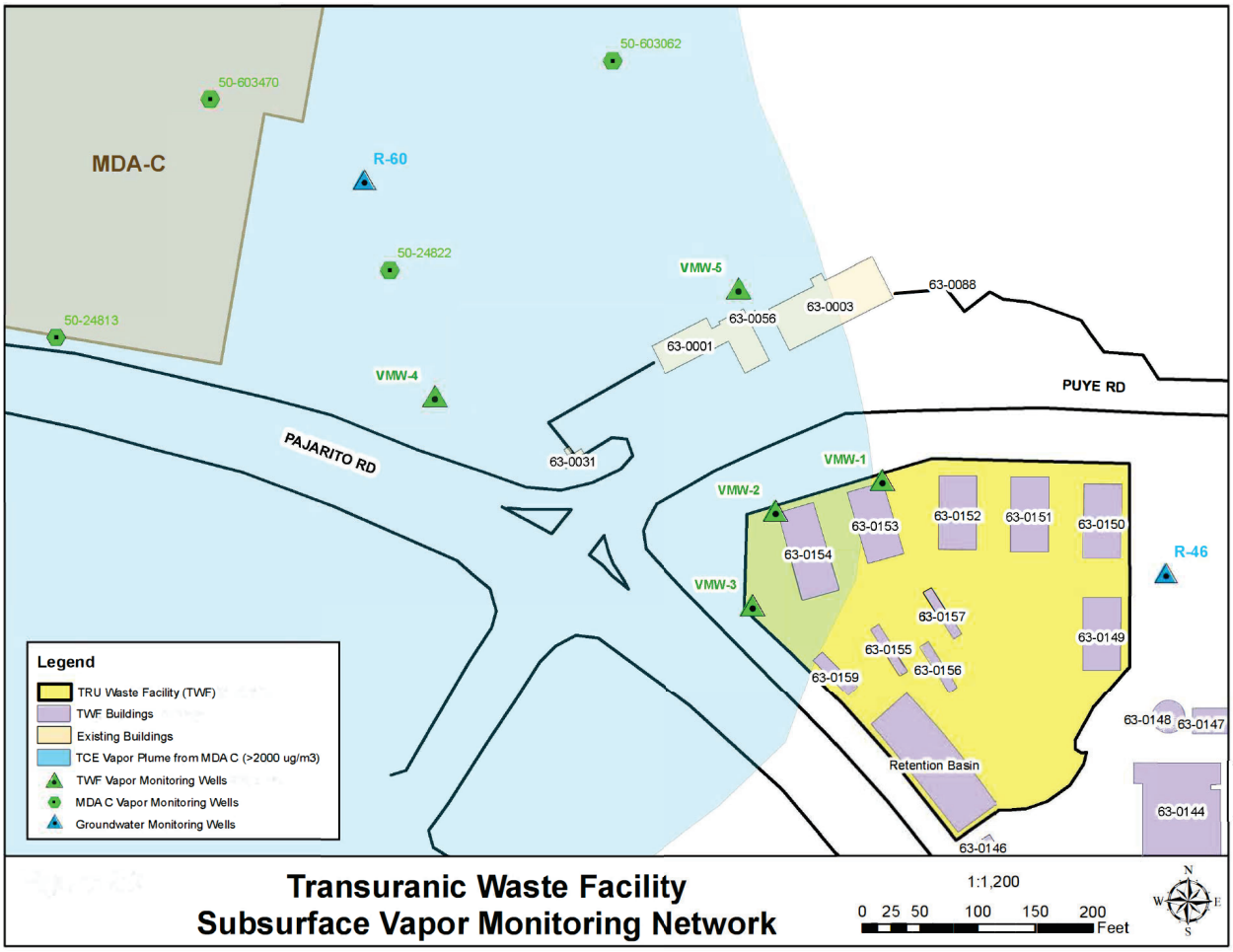

Figure 1. Soil vapor monitoring well locations at TA-63 TWF.

[this page is intentionally blank]

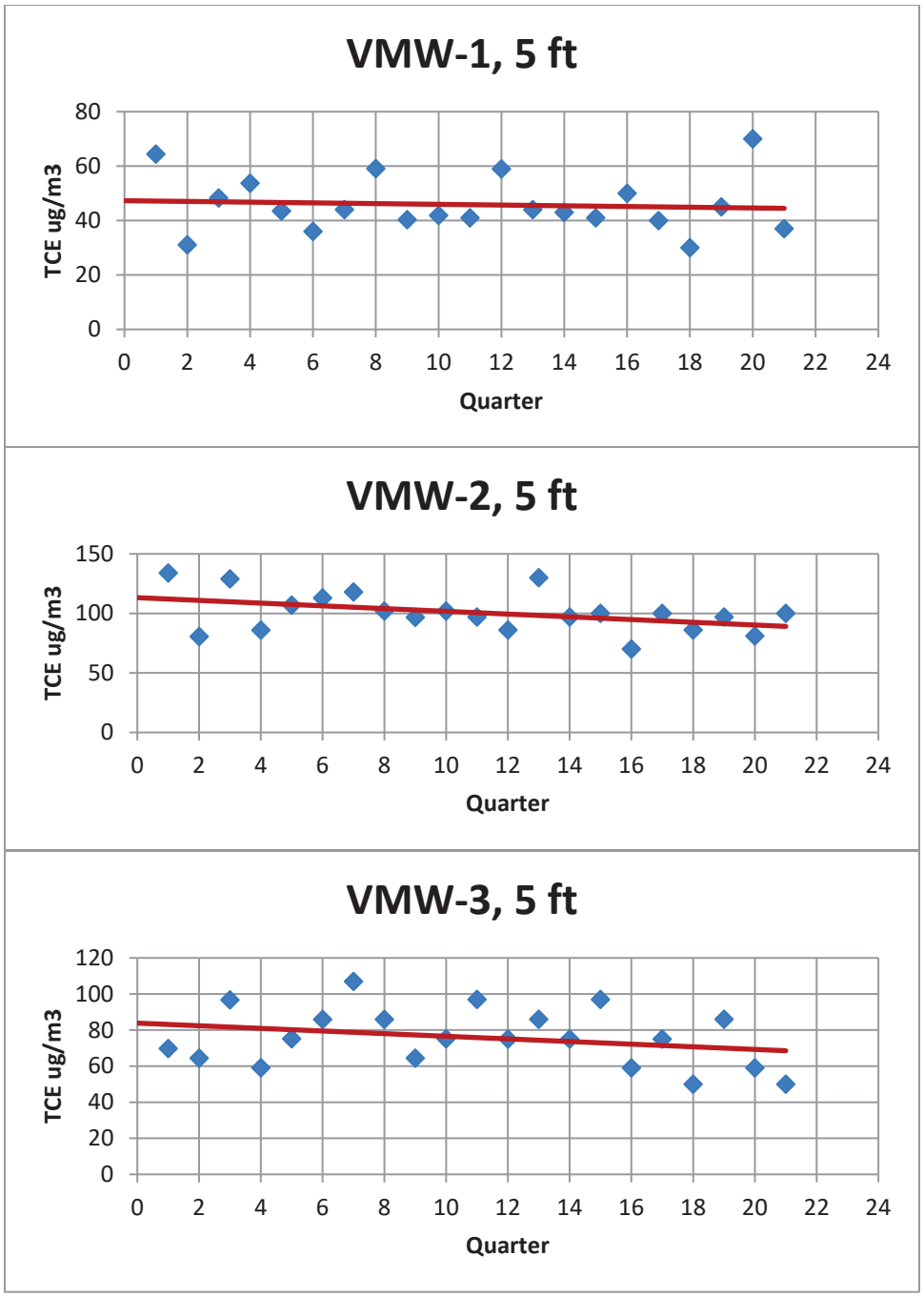

Figure 2. Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit.

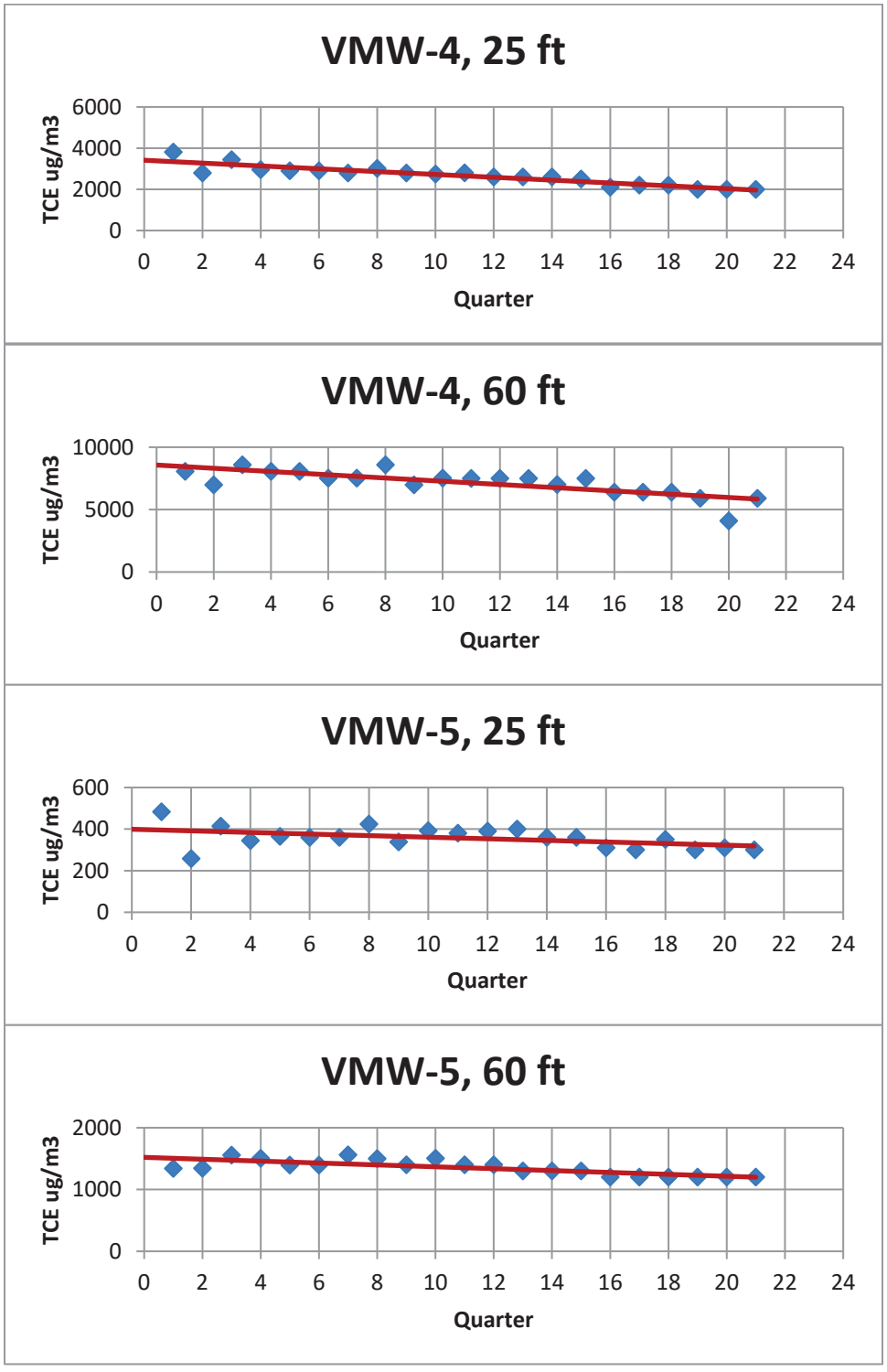

Figure 3. Data plots for TA-63 TWF soil vapor monitoring wells outside the permitted unit.

Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility - Quarter 21

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)	TWF63-23-260680	5	REG	Trichloroethene	Trichloroethylene	37	J	42	1.94E+04	0.2
	TWF63-23-260680	5	REG	Toluene	Toluene	3.5	J	29	4.70E+07	<0.1
VMW-2 (63-2010)	TWF63-23-260681	5	REG	Trichloroethene	Trichloroethylene	100	NQ	42	1.94E+04	0.5
VMW-3 (63-2011)	TWF63-23-260682	5	REG	Trichloroethene	Trichloroethylene	50	NQ	42	1.94E+04	0.3
VMW-4 (63-2012)	TWF63-23-260683	25	REG	Trichloroethene	Trichloroethylene	2000	NQ	42	1.57E+05	1.3
	TWF63-23-260683	25	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	44	NQ	39	2.61E+06	<0.1
	TWF63-23-260683	25	REG	Tetrachloroethene	Tetrachloroethylene	31	J	53	2.63E+06	<0.1
	TWF63-23-260683	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	33	J	49	1.06E+05	<0.1
	TWF63-23-260683	25	REG	Chloroform	Chloroform	73	NQ	38	2.30E+04	0.3
	TWF63-23-260683	25	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	60	6.86E+08	<0.1
VMW-4 (63-2012)	TWF63-23-260684	60	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	110	NQ	40	5.38E+06	<0.1
	TWF63-23-260684	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	31	J	61	1.38E+09	<0.1
	TWF63-23-260684	60	REG	Trichloroethene	Trichloroethylene	5900	NQ	43	9.27E+04	6.4
	TWF63-23-260684	60	REG	Chloroform	Chloroform	160	NQ	39	4.44E+04	0.4
	TWF63-23-260684	60	REG	Tetrachloroethene	Tetrachloroethylene	81	NQ	54	2.05E+06	<0.1
	TWF63-23-260684	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	82	NQ	50	2.13E+05	<0.1
	TWF63-23-260684	60	REG	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	15	J	32	2.91E+06	<0.1
VMW-5 (63-2013)	TWF63-23-260685	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	13	J	43	1.16E+08	<0.1
	TWF63-23-260685	25	REG	Chloroform	Chloroform	42	NQ	38	2.30E+04	0.2
	TWF63-23-260685	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	31	J	39	2.61E+06	<0.1
	TWF63-23-260685	25	REG	Trichloroethene	Trichloroethylene	300	NQ	42	1.57E+05	0.2
	TWF63-23-260685	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	13	J	43	1.16E+08	<0.1
VMW-5 (63-2013)	TWF63-23-260686	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	14	J	49	2.13E+05	<0.1
	TWF63-23-260686	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	60	1.38E+09	<0.1
	TWF63-23-260686	60	REG	Chloroform	Chloroform	21	J	38	4.44E+04	<0.1
	TWF63-23-260686	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	28	J	43	2.34E+08	<0.1
	TWF63-23-260686	60	REG	Dichlorodifluoromethane	Dichlorodiflouromethane	54	NQ	39	5.38E+06	<0.1
	TWF63-23-260686	60	REG	Trichloroethene	Trichloroethylene	1200	NQ	42	9.27E+04	1.3
VMW-5 (63-2013) Field Duplicate	TWF63-23-260687	60	FD	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	58	1.38E+09	<0.1
	TWF63-23-260687	60	FD	Carbon Tetrachloride	Carbon Tetrachloride	16	J	48	2.13E+05	<0.1
	TWF63-23-260687	60	FD	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	28	J	41	2.34E+08	<0.1
	TWF63-23-260687	60	FD	Chloroform	Chloroform	21	J	37	4.44E+04	<0.1
	TWF63-23-260687	60	FD	Dichlorodifluoromethane	Dichlorodiflouromethane	54	NQ	38	5.38E+06	<0.1
	TWF63-23-260687	60	FD	Trichloroethene	Trichloroethylene	1200	NQ	41	9.27E+04	1.3

Notes: EPA Data Qualifier "J" indicates analytes that are detected but results are estimated as less than the report detection limit
EPA Data Qualifier "NQ" indicates analytes that are detected above the report detection limit with no data qualifiers
REG = regular sample
FD = field duplicate
SGSL = Soil Gas Screening Level from Permit Part 3, Tables 3.14.3.1 through 3.14.3.3

[this page is intentionally blank]

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 21

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	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	11	U	3.8	25	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23	64	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26.0	110	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13.0	96	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21	81	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60.0	73	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17.0	96	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31	74	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	38	U	8	38	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	10	43	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10.0	28	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11	36	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11.0	47	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	49	U	12.0	49	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15	38	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17	44	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	39	U	9	39	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14	60	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15.0	54	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7.4	36	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32.0	91	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8	43	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12.0	54	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130	330	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30.0	97	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11.0	32	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34.0	130	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13	38	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	8	23	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	8	27	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26	110	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17.0	66	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	7	17	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13.0	31	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	15	53	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	9	34	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13.0	47	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	8	38	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10	34	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34.0	U	12.0	34	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12.0	33	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13.0	40	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10.0	35	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15	38	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10.0	47	N
63-2009	5	TWF63-23-260680	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14.0	60	N
63-2009	**5**	**TWF63-23-260680**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**37**	**J**	**17**	**42**	**Y**
63-2009	**5**	**TWF63-23-260680**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**108-88-3**	**Toluene**	**3.5**	**J**	**3.2**	**29**	**Y**
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12.0	34	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12.0	33	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13.0	40	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15.0	38	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10.0	47	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14	60	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.6	17	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30	97	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11.0	32	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34.0	130	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13	38	N
63-2010	**5**	**TWF63-23-260681**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**100**	**NQ**	**17.0**	**42**	**Y**
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3.2	29	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	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	8	23	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	7.7	27	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26.0	110	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17.0	66	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	15.0	53	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10.0	28	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11	36	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	49	U	12	49	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26	130	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15	38	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60	73	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17.0	96	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31	74	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	38	U	8	38	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	4	25	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	10	43	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54	120	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23.0	64	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26	110	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13.0	96	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21.0	81	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17	44	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	39	U	9.4	39	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14	60	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15.0	54	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7	36	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32.0	91	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	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8.2	43	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12.0	54	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130.0	330	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.7	34	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	8	38	N
63-2010	5	TWF63-23-260681	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10.0	34	N
63-2011	**5**	**TWF63-23-260682**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**50**	**NQ**	**17.0**	**42**	**Y**
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34.0	130	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	7.7	23	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	8	27	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11	27	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26	110	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17.0	66	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	15.0	53	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12.0	32	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13.0	31	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10.0	28	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11.0	36	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	49	U	12.0	49	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15.0	38	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60.0	73	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17.0	96	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31.0	74	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	38	U	8	38	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	3.8	25	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	9.8	43	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54	120	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23.0	64	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	8.9	20	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	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26.0	110	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13.0	96	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21	81	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15	52	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17	44	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	7.9	38	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10.0	34	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12	34	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12	33	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13	40	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	39	U	9.4	39	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14.0	60	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15.0	54	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7.4	36	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32.0	91	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8.2	43	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12	54	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130	330	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	9	34	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15.0	38	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10.0	47	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14	60	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.6	17	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30	97	N
63-2011	5	TWF63-23-260682	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11	32	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31	74	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	4	25	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	10	43	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54	120	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23.0	64	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	8.9	20	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26.0	110	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21.0	81	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15	52	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6.3	31	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17	44	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15	54	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7	36	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32	91	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8	43	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12	54	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130.0	330	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.7	34	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	10	38	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	8	38	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10	34	N
63-2012	**25**	**TWF63-23-260683**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**127-18-4**	**Tetrachloroethene**	**31**	**J**	**15**	**53**	**Y**
63-2012	**25**	**TWF63-23-260683**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**33**	**J**	**12**	**49**	**Y**
63-2012	**25**	**TWF63-23-260683**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**73**	**NQ**	**8**	**38**	**Y**
63-2012	**25**	**TWF63-23-260683**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**44**	**NQ**	**9**	**39**	**Y**
63-2012	**25**	**TWF63-23-260683**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**15**	**J**	**14.0**	**60**	**Y**
63-2012	**25**	**TWF63-23-260683**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**2000**	**NQ**	**17**	**42**	**Y**
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12	34	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12	33	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13	40	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15	38	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10.0	47	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14	60	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	7	17	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30	97	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11	32	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34	130	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	7.7	23	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	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	7.7	27	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11	27	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120	230	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26	110	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17	66	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11	31	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10	28	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11.0	36	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15.0	38	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60	73	N
63-2012	25	TWF63-23-260683	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17.0	96	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	37	U	7.9	37	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	94.0	U	32.0	94	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	44	U	9	44	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	55	U	13.0	55	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	340	U	130	340	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	35	U	9	35	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	48	U	14.0	48	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	39	U	9.8	39	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	39	U	8	39	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	35	U	10.0	35	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	35	U	12	35	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	34	U	12.0	34	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	41	U	13.0	41	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	36	U	4.5	36	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	36	U	10.0	36	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	39	U	15	39	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	48	U	10.0	48	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	61	U	14	61	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	6.6	18	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	30.0	100	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	12.0	32	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	36.0	130	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	39	U	14	39	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	30	U	3.2	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
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	37	U	6.9	37	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	8.0	24	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	28	U	8.1	28	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	28	U	11	28	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	130.0	240	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	27	120	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	66	U	23.0	66	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	84	U	29.0	84	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	27.0	110	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	14	100	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	83	U	21	83	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	54	U	15	54	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	6.9	32	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	32	U	7	32	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	45	U	18	45	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	68	U	18	68	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	33	U	12.0	33	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	32	U	14	32	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	29	U	10.0	29	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	37	U	11.0	37	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	48	U	11.0	48	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	27.0	130	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	39	U	16.0	39	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	80	U	58	80	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	100	U	17	100	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	76	U	31	76	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	3.8	26	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	44	U	9.8	44	N
63-2012	60	TWF63-23-260684	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	56	U	16.0	56	N
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**127-18-4**	**Tetrachloroethene**	**81**	**NQ**	**16**	**54**	**Y**
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**156-59-2**	**Dichloroethene[cis-1,2-]**	**15**	**J**	**11**	**32**	**Y**
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**82**	**NQ**	**13**	**50**	**Y**
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**160**	**NQ**	**8.8**	**39**	**Y**
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**110**	**NQ**	**9.9**	**40**	**Y**
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**31**	**J**	**15.0**	**61**	**Y**
63-2012	**60**	**TWF63-23-260684**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**5900**	**NQ**	**18**	**43**	**Y**
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12.0	34	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	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12.0	33	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13.0	40	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	5	35	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15	38	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10	47	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14.0	60	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.6	17	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30	97	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11	32	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34	130	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	7.7	23	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	7.7	27	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26.0	110	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17	66	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	15	53	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11	31	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13.0	31	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10	28	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11.0	36	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	49	U	12.0	49	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15.0	38	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60	73	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17.0	96	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31.0	74	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54	120	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23	64	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6.3	31	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17	44	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14.0	60	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15.0	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	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7.4	36	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32.0	91	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8.2	43	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12.0	54	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130.0	330	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	9	34	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13.0	47	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	7.9	38	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10.0	34	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	6	U	3.8	25	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26.0	110	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21.0	81	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2013	**25**	**TWF63-23-260685**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**42**	**NQ**	**8.3**	**38**	**Y**
63-2013	**25**	**TWF63-23-260685**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**13**	**J**	**10**	**43**	**Y**
63-2013	**25**	**TWF63-23-260685**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**31**	**J**	**9.4**	**39**	**Y**
63-2013	**25**	**TWF63-23-260685**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**300**	**NQ**	**17.0**	**42**	**Y**
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2013	25	TWF63-23-260685	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	8.9	20	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12	34	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12.0	33	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13.0	40	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15	38	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10	47	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14.0	60	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.6	17	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30	97	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11.0	32	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34	130	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3.2	29	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	7	36	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	7.7	23	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	7.7	27	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	26.0	110	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17	66	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	15.0	53	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12.0	32	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11	31	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10	28	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11.0	36	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15.0	38	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60.0	73	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	96	U	17	96	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31.0	74	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	4	25	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23.0	64	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26.0	110	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21	81	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	6.5	32	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6.3	31	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17	44	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15	54	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7	36	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32.0	91	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8.2	43	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12	54	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130.0	330	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	9	34	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	10	38	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	7.9	38	N
63-2013	60	TWF63-23-260686	10/26/2022	11/06/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10	34	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**	**TWF63-23-260686**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**14**	**J**	**12**	**49**	**Y**
63-2013	**60**	**TWF63-23-260686**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**67-66-3**	**Chloroform**	**21**	**J**	**8.3**	**38**	**Y**
63-2013	**60**	**TWF63-23-260686**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**28**	**J**	**9.8**	**43**	**Y**
63-2013	**60**	**TWF63-23-260686**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**54**	**NQ**	**9.4**	**39**	**Y**
63-2013	**60**	**TWF63-23-260686**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**15**	**J**	**14.0**	**60**	**Y**
63-2013	**60**	**TWF63-23-260686**	**10/26/2022**	**11/06/2022**	**VOC**	**EPA:TO15**	**REG**	**GAS**	**79-01-6**	**Trichloroethene**	**1200**	**NQ**	**17.0**	**42**	**Y**
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	30	U	11	30	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	30	U	13.0	30	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	9.7	27	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	35	U	11.0	35	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	11.0	46	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	100	U	25.0	100	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	37	U	15.0	37	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	72	U	55.0	72	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	93	U	16.0	93	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	70	U	28	70	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	24	U	3.5	24	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	100	U	50	100	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	60	U	23.0	60	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	80	U	30.0	80	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	19	U	8.7	19	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	100	U	25.0	100	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	90	U	13.0	90	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	79	U	20.0	79	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	51	U	15.0	51	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	31	U	6.5	31	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	30	U	6.3	30	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	43	U	17	43	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	53	U	15.0	53	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	35	U	7	35	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	90	U	32.0	90	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	41	U	8	41	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	52	U	12	52	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	300	U	130	300	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	33	U	8	33	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	13	46	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	37	U	9.3	37	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	37	U	7.9	37	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	10	33	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	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	33	U	12	33	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	32	U	11.0	32	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	39	U	12	39	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	4.4	34	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	10.0	34	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	37	U	15	37	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	10	46	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	58	U	14.0	58	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	17	U	6	17	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	90	U	31	90	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	31	U	11	31	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	100	U	34.0	100	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	37	U	13	37	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	29	U	3.1	29	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	35	U	7	35	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	22	U	7.7	22	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	27	U	7.7	27	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	26	U	10.0	26	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	120.0	200	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	100	U	26.0	100	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	65	U	17	65	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	127-18-4	Tetrachloroethene	52	U	15.0	52	N
63-2013	60	TWF63-23-260687	10/26/2022	11/08/2022	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	31	U	11	31	N
63-2013	**60**	**TWF63-23-260687**	**10/26/2022**	**11/08/2022**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**56-23-5**	**Carbon Tetrachloride**	**16**	**J**	**12.0**	**48**	**Y**
63-2013	**60**	**TWF63-23-260687**	**10/26/2022**	**11/08/2022**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**67-66-3**	**Chloroform**	**21**	**J**	**8.3**	**37**	**Y**
63-2013	**60**	**TWF63-23-260687**	**10/26/2022**	**11/08/2022**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**71-55-6**	**Trichloroethane[1,1,1-]**	**28**	**J**	**9.8**	**41**	**Y**
63-2013	**60**	**TWF63-23-260687**	**10/26/2022**	**11/08/2022**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**75-71-8**	**Dichlorodifluoromethane**	**54**	**NQ**	**9.4**	**38**	**Y**
63-2013	**60**	**TWF63-23-260687**	**10/26/2022**	**11/08/2022**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**76-13-1**	**Trichloro-1,2,2-trifluoroethane[1,1,2-]**	**15**	**J**	**14**	**58**	**Y**
63-2013	**60**	**TWF63-23-260687**	**10/26/2022**	**11/08/2022**	**VOC**	**EPA:TO15**	**FD**	**GAS**	**79-01-6**	**Trichloroethene**	**1200**	**NQ**	**17**	**41**	**Y**
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	120	U	54	120	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	66	U	23	66	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	84	U	29	84	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	110	U	27	110	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	100	U	14	100	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	83	U	21	83	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	54	U	15	54	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	35	U	12	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/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	34	U	12	34	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	41	U	13.0	41	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	36	U	5	36	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	36	U	10.0	36	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	39	U	15	39	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	48	U	10	48	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	61	U	14	61	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	18	U	7	18	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	100	U	30	100	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	32	U	12.0	32	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	36.0	130	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	39	U	14	39	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	30	U	3.2	30	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	37	U	7	37	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	24	U	8.0	24	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	28	U	8.1	28	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	28	U	11.0	28	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	130	240	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	120	U	27.0	120	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	80	U	58	80	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	100	U	17	100	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	76	U	31	76	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	39	U	9	39	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	26	U	4	26	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	44	U	10	44	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	68	U	18	68	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	54	U	16	54	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	33	U	12	33	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	32	U	11.0	32	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	32	U	14	32	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	29	U	10	29	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	37	U	11	37	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	48	U	11.0	48	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	50	U	13	50	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	130	U	27.0	130	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	39	U	16.0	39	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	32	U	6.7	32	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	45	U	18.0	45	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	40	U	10	40	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		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	61	U	15.0	61	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	56	U	16	56	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	37	U	8	37	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	94	U	32.0	94	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	44	U	9	44	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	43	U	18.0	43	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	55	U	13.0	55	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	340	U	130	340	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	35	U	9	35	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	48	U	14	48	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	39	U	10	39	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	39	U	8	39	N
63-2013		TWF63-23-260688	10/26/2022	11/08/2022	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	35	U	10	35	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

[this page is intentionally blank]

Table 3: Current and Previous Analytical Results for Constituents Listed in Permit Tables

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10		Q11	
		Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)
VMW-1 (5) 63-2009	Trichloroethylene	64.4	0.3	31.1	0.2	48.3	0.2	53.7	0.3	43.5	0.2	36	0.2	44	0.2	59.1	0.3	40.3	0.2	41.9	0.2	41	0.2
	Toluene	12.4	<0.1																				
	Tetrachloroethylene	11.5	<0.1																				
	cis-1,2-Dichloroethylene	11.5	<0.1																				
	Acetone	16.1	<0.1																				
	1,1,1-Trichloroethane	142	<0.1			8.2	<0.1									8.7	<0.1					7.6	<0.1
	1,1-Dichloroethane	33.6	<0.1																				
	1,1-Dichloroethylene	10.3	<0.1																				
	Dichlorodifluoromethane	6.9	<0.1																				
	Methylene chloride							13.2	<0.1														
	Chloroform															5.9	<0.1						
	m-Xylene																						
	p-Xylene																						
VMW-2 (5) 63-2010	Trichloroethylene	134	0.7	80.6	0.4	129	0.7	85.9	0.4	107	0.6	113	0.6	118	0.6	102	0.5	96.7	0.5	102	0.5	97	0.5
	Dichlorodifluoromethane	7.9	<0.1													6.4	<0.1					6.9	<0.1
	Acetone													20.2	<0.1								
	1,1,1-Trichloroethane																						
	Toluene															6.8	<0.1						
VMW-3 (5) 63-2011	Trichloroethylene	69.8	0.4	64.4	0.3	96.7	0.5	59.1	0.3	75.2	0.4	85.9	0.4	107	0.6	85.9	0.4	64.4	0.3	75.2	0.4	97	0.5
	Toluene	8.3	<0.1																				
	Acetone							20.9	<0.1					12.3	<0.1								
	Dichlorodifluoromethane															5.9	<0.1						
VMW-4 (25) 63-2012	Trichloroethylene	3810	2.4	2793	1.8	3437	2.2	2954	1.9	2900	1.8	2900	1.8	2790	1.8	3010	1.9	2790	1.8	2740	1.7	2800	1.8
	Tetrachloroethylene	49.5	<0.1	34.6	<0.1	34.6	<0.1	36.6	<0.1	43.4	<0.1	39.3	<0.1	34.6	<0.1			35.9	<0.1				
	Carbon tetrachloride	49.7	<0.1	35.2	<0.1	48.4	<0.1	41.5	<0.1	35.2	<0.1	46.5	<0.1	42.1	<0.1	50.9	<0.1	41.5	<0.1			47	<0.1
	Chloroform	112	0.5	87.8	0.2	107	0.5	107	0.5	102	0.4	92.7	0.4	97.6	0.4	97.6	0.4	102	0.4	102	0.4	93	0.4
	Dichlorodifluoromethane	84	<0.1	74.1	<0.1	84	<0.1	84	<0.1	69.2	<0.1	79.1	<0.1	84	<0.1	59.3	<0.1	74.1	<0.1	74.1	<0.1	79	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	<0.1	13	<0.1									16.1	<0.1	13	<0.1					19	<0.1
	1,1,1-Trichloroethane	7.1	<0.1																			9.3	<0.1
	Bromodichloromethane															6.6	<0.1						
VMW-4 (60) 63-2012	Trichloroethylene	8060	8.7	6980	7.5	8590	9.3	8060	8.7	8060	8.7	7520	8.1	7520	8.1	8590	9.3	6980	7.5	7520	8.1	7500	8.1
	Tetrachloroethylene	81.3	<0.1	74.6	<0.1	88.1	<0.1	81.3	<0.1	88.1	<0.1	88.1	<0.1	81.3	<0.1	94.9	<0.1	67.8	<0.1	74.6	<0.1	81	<0.1
	cis-1,2-Dichloroethylene	16.6	<0.1	23.8	<0.1	25.8	<0.1	25	<0.1	19.4	<0.1	19.8	<0.1	19.8	<0.1	21.8	<0.1	22.2	<0.1	23	<0.1	23	<0.1
	Carbon tetrachloride	94.3	<0.1	88	<0.1	113	<0.1	107	<0.1	107	<0.1	113	<0.1	101	<0.1	107	<0.1	101	<0.1	107	<0.1	100	<0.1
	Chloroform	190	0.4	200	0.5	244	0.5	229	0.5	210	0.5	215	0.5	215	0.5	220	0.5	200	0.5	224	0.5	240	0.5
	1,1,1-Trichloroethane	13.1	<0.1	14.2	<0.1	14.2	<0.1	15.3	<0.1	15.3	<0.1			13.6	<0.1	15.8	<0.1	13.1	<0.1	15.9	<0.1	18	<0.1
	Dichlorodifluoromethane	143	<0.1	158	<0.1	148	<0.1	193	<0.1	168	<0.1	168	<0.1	183	<0.1	133	<0.1	148	<0.1	173	<0.1	190	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	25.3	<0.1	28.3	<0.1	29.9	<0.1	32.2	<0.1	36.8	<0.1	26	<0.1	28.3	<0.1			26.8	<0.1	27.6	<0.1	38	<0.1

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10		Q11	
		Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)
	Toluene	7.6	<0.1																				
	Acetone	16.1	<0.1																				
	Trichlorofluoromethane	6.2	<0.1			6.7	<0.1													10.7	<0.1		
VMW-5 (25) 63-2013	Trichloroethylene	483	0.3	258	0.2	414	0.3	344	0.2	365	0.2	360	0.2	360	0.2	424	0.3	338	0.2	392	0.2	380	0.2
	Chloroform	35.6	0.2	19	<0.1	26.3	0.1	32.2	<0.1	32.2	0.1	28.8	0.1	32.2	0.1	30.3	0.1	36.6	<0.1	41.5	0.2	41	0.2
	1,1,1-Trichloroethane	30.5	<0.1	19.6	<0.1	20.2	<0.1	27.8	<0.1	22.9	<0.1			23.4	<0.1	22.4	<0.1	21.8	<0.1	24.5	<0.1	24	<0.1
	Dichlorodifluoromethane	59.3	<0.1	42	<0.1	42	<0.1	47.4	<0.1	47	<0.1	49.4	<0.1	54.4	<0.1	36.6	<0.1	45.5	<0.1	48.9	<0.1	47	<0.1
	Tetrachloroethylene	6.8	<0.1																				
	Acetone							15	<0.1					12.3	<0.1								
	Carbon tetrachloride															7.5	<0.1						
VMW-5 (60) 63-2013	Trichloroethylene	1340	1.4	1343	1.4	1557	1.7	1504	1.6	1396	1.5	1400	1.5	1560	1.7	1500	1.6	1400	1.5	1503	1.6	1400	1.5
	Tetrachloroethylene	16.9	<0.1	12.9	<0.1	15.6	<0.1					10.2	<0.1	12.9	<0.1								
	Chloroform	15.6	<0.1	18.1	<0.1	22.9	<0.1	19	<0.1	22.9	<0.1	22	<0.1	21.5	<0.1	26.3	<0.1	21	<0.1	23.4	<0.1	23	<0.1
	1,1,1-Trichloroethane	44.7	<0.1	47.4	<0.1	47.4	<0.1	60	<0.1	50.2	<0.1	42	<0.1	45.3	<0.1	46.9	<0.1	44.7	<0.1	47.4	<0.1	47	<0.1
	Dichlorodifluoromethane	64.2	<0.1	84	<0.1	69.2	<0.1	84	<0.1	79	<0.1	79	<0.1	79	<0.1	59.3	<0.1	64.2	<0.1	79.1	<0.1	84.0	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane			10	<0.1	19.9	<0.1							15.3	<0.1	14.6	<0.1			18.4	<0.1		
	Toluene	10.5	<0.1																				
	Carbon tetrachloride	13.2	<0.1			10.7	<0.1							18.2	<0.1	21.4	<0.1	20.1	<0.1			19	<0.1
	Acetone	26.1	<0.1													26.1	<0.1						

Field Duplicates:

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10		Q11	
		Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)
VMW-1 (5) 63-2009(FD)	Trichloroethylene													59.1	0.3								
	Dichlorodifluoromethane													6.9	<0.1								
VMW-3 (5) 63-2011(FD)	Trichloroethylene			45.6	0.2					80.6	0.4												
VMW-4 (25) 63-2012(FD)	Trichloroethylene					3276	2.1					2790	1.8										
	Tetrachloroethylene					32.5	<0.1					34.6	<0.1										
	Carbon tetrachloride					56.6	<0.1					49.7	<0.1										
	Chloroform					112	0.5					97.6	0.4										
	1,1,1-Trichloroethane					12.5	<0.1																
	Dichlorofluoromethane					74.1	<0.1					79.1	<0.1										
VWM-4 (60) 23-2012(FD)	Trichloroethylene							8593	9.3														
	Tetrachloroethylene							81.3	<0.1														
	cis-1,2-Dichloroethylene							27	<0.1														
	Carbon tetrachloride							113	<0.1														
	Chloroform							249	0.6														
	Dichlorodifluoromethane							188	<0.1														

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10		Q11	
		Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)
	Acetone																						
	1,1,2-Trichloro-1,2,2-trifluoroethane							32.2	<0.1														
VMW-5 (25) 63-2013(FD)	Trichloroethylene	451	0.3																				
	Tetrachloroethylene	8.8	<0.1																				
	Chloroform	30.7	0.1																				
	1,1,1-Trichloroethane	32.7	<0.1																				
	Dichlorodifluoromethane	59.3	<0.1																				
VMW-5 (60) 63-2013(FD)	Trichloroethylene															1560	1.7	1340	1.4	1340	1.4	1500	1.6
	Carbon tetrachloride															18.2	<0.1			17.6	<0.1	19	<0.1
	1,1,1-Trichloroethane															47.4	<0.1	48.5	<0.1	46.3	<0.1	47	<0.1
	Dichlorodifluoromethane															64.2	<0.1	69.2	<0.1	79.1	<0.1	79	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane															15.3	<0.1	17.6	<0.1				
	Chloroform																	20.5	<0.1	19.5	<0.1	29	<0.1
	Methylethylketone (2-butanone)																			162	<0.1		
	Tetrachloroethylene																						
	1,2,4-Trimethylbenzene																			10.3	<0.1		

Table 3 (continued)

Well ID (Port(ft))	Constituent	Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20		Q21	
		Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)
VMW-1 (5) 63-2009	Trichloroethylene	59	0.3	44	0.2	43	0.2	41	0.2	50	0.3	40	0.2	30	0.2	45	0.2	70	0.4	37	0.2
	Toluene																			3.5	<0.1
	Tetrachloroethylene																				
	cis-1,2-Dichloroethylene																				
	Acetone																	81	<0.1		
	1,1,1-Trichloroethane	6	<0.1									3.8	<0.1								
	1,1-Dichloroethane																				
	1,1-Dichloroethylene																				
	Dichlorodifluoromethane	6.9	<0.1																		
	Methylene chloride																				
	Chloroform																				
	m-Xylene											10	<0.1								
	p-Xylene											10	<0.1								
VMW-2 (5) 63-2010	Trichloroethylene	86	0.4	130	0.7	97	0.5	100	0.5	70	0.4	100	0.5	86	0.4	97	0.5	81	0.4	100	0.5
	Dichlorodifluoromethane	5.9	<0.1	5.9	<0.1																
	Acetone																				
	1,1,1-Trichloroethane			5.1	<0.1																
	Toluene																				

Well ID (Port(ft))	Constituent	Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20		Q21	
		Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)
VMW-3 (5) 63-2011	Trichloroethylene	75	0.4	86	0.4	75	0.4	97	0.5	59	0.3	75	0.4	50	0.3	86	0.4	59	0.3	50	0.3
	Toluene																				
	Acetone																				
	Dichlorodifluoromethane			7.9	<0.1																
VMW-4 (25) 63-2012	Trichloroethylene	2600	1.7	2600	1.7	2600	1.7	2500	1.6	2100	1.3	2200	1.4	2200	1.4	2000	1.3	2000	1.3	2000	1.3
	Tetrachloroethylene	40	<0.1	40	<0.1	35	<0.1	26	<0.1	37	<0.1	33	<0.1	30	<0.1	33	<0.1	24	<0.1	31	<0.1
	Carbon tetrachloride	39	<0.1	43	<0.1	41	<0.1	35	0.1	40	<0.1	36	<0.1	40	<0.1	33	<0.1	32	<0.1	33	<0.1
	Chloroform	88	0.4	83	0.5	88	0.8	78	0.7	78	0.3	78	0.3	68	0.3	78	0.3	78	0.3	73	0.3
	Dichlorodifluoromethane	59	<0.1	64	<0.1	59	<0.1	59	<0.1	50	<0.1	54	<0.1	54	<0.1	54	<0.1	48	<0.1	44	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane																			15	<0.1
	1,1,1-Trichloroethane	5.5	<0.1																		
	Bromodichloromethane																				
VMW-4 (60) 63-2012	Trichloroethylene	7500	8.1	7500	8.1	7000	7.6	7500	8.1	6400	6.9	6400	6.9	6400	6.9	5900	6.4	4100	4.4	5900	6.4
	Tetrachloroethylene	81	<0.1	75	<0.1	75	<0.1	75	<0.1	75	<0.1	64	<0.1	70	<0.1	75	<0.1	33	<0.1	81	<0.1
	cis-1,2-Dichloroethylene	22	<0.1	21	<0.1	23	<0.1	16	<0.1	18	<0.1	14	<0.1	14	<0.1	18	<0.1			15	<0.1
	Carbon tetrachloride	100	<0.1	110	<0.1	94	<0.1	88	<0.1	82	0.2	94	<0.1	100	<0.1	88	<0.1	60	<0.1	82	<0.1
	Chloroform	200	0.5	200	0.4	200	0.5	180	0.4	160	0.4	170	0.4	170	0.4	160	0.4	130	0.3	160	0.4
	1,1,1-Trichloroethane	13	<0.1	15	<0.1	13	<0.1	9.8	<0.1	8.7	<0.1	9.8	<0.1								
	Dichlorodifluoromethane	160	<0.1	160	<0.1	140	<0.1	130	<0.1	130	<0.1	130	<0.1	120	<0.1	120	<0.1	89	<0.1	110	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	24	<0.1	34	<0.1	29	<0.1	27	<0.1	25	<0.1	24	<0.1	25	<0.1	28	<0.1	19	<0.1	31	<0.1
	Toluene																				
	Acetone																				
	Trichlorofluoromethane					7.3	<0.1														
VMW-5 (25) 63-2013	Trichloroethylene	390	0.2	400	0.3	360	0.2	360	0.2	310	0.2	300	0.2	350	0.2	300	0.2	310	0.2	300	0.2
	Chloroform	40	0.2	35	0.2	36	0.3	37	0.3	35	0.2	36	0.2	32	0.1	32	0.1	38	0.2	42	0.2
	1,1,1-Trichloroethane	19	<0.1	19	<0.1	18	<0.1	16	<0.1	17	<0.1	16	<0.1	12	<0.1	19	<0.1			13	<0.1
	Dichlorodifluoromethane	37	<0.1	47	<0.1	41	<0.1	38	<0.1	31	<0.1	39	<0.1	34	<0.1	31	<0.1	50	<0.1	31	<0.1
	Tetrachloroethylene																				
	Acetone																	62	<0.1		
	Carbon tetrachloride																			14	<0.1
VMW-5 (60) 63-2013	Trichloroethylene	1400	1.5	1300	1.4	1300	1.4	1300	1.4	1200	1.3	1200	1.3	1200	1.3	1200	1.3	1200	1.3	1200	1.3
	Tetrachloroethylene											12	<0.1								
	Chloroform	20	<0.1	19	<0.1	20	<0.1	17	<0.1	21	<0.1	19	<0.1	16	<0.1	23	<0.1	21	<0.1	21	<0.1
	1,1,1-Trichloroethane	40	<0.1	33	<0.1	40	<0.1	29	<0.1	36	<0.1	29	<0.1	35	<0.1	29	<0.1	31	<0.1	28	<0.1
	Dichlorodifluoromethane	69.0	<0.1	74.0	<0.1	69.0	<0.1	54.0	<0.1	59.0	<0.1	59.0	<0.1	50.0	<0.1	54.0	<0.1	50.0	<0.1	54.0	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane	17	<0.1																	15	<0.1
	Toluene																				
	Carbon tetrachloride	18	<0.1	18	<0.1	19	<0.1	14	<0.1	15	<0.1	14	<0.1	14	<0.1	16	<0.1	14	<0.1		

Well ID (Port(ft))	Constituent	Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20		Q21	
		Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)	Result (ug/m^3)	Percent of SGSL (%)
	Acetone																				
Field Duplicates:																					
Well ID (Port(ft))	Constituent	Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20		Q21	
		Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)	Result (mg/m^3)	Percent of SGSL (%)
VMW-1 (5) 63-2009(FD)	Trichloroethylene													37	0.2						
	Dichlorodifluoromethane																				
VMW-3 (5) 63-2011(FD)	Trichloroethylene																				
VMW-4 (25) 63-2012(FD)	Trichloroethylene															2000	1.3				
	Tetrachloroethylene															33	<0.1				
	Carbon tetrachloride															36	<0.1				
	Chloroform															73	0.3				
	1,1,1-Trichloroethane																				
	Dichlorofluoromethane															54	<0.1				
VWM-4 (60) 23-2012(FD)	Trichloroethylene																	4400	4.7		
	Tetrachloroethylene																	45	<0.1		
	cis-1,2-Dichloroethylene																	12	<0.1		
	Carbon tetrachloride																	59	<0.1		
	Chloroform																	140	0.3		
	Dichlorodifluoromethane																	94	<0.1		
	Acetone																	38	<0.1		
	1,1,2-Trichloro-1,2,2-trifluoroethane																				
VMW-5 (25) 63-2013(FD)	Trichloroethylene																				
	Tetrachloroethylene																				
	Chloroform																				
	1,1,1-Trichloroethane																				
	Dichlorodifluoromethane																				
VMW-5 (60) 63-2013(FD)	Trichloroethylene	1400	1.5	1400	1.5	1300	1.4	1300	1.4	1200	1.3	1200	1.3							1200	1.3
	Carbon tetrachloride	19	<0.1	22	<0.1	19	<0.1	14	<0.1	14	<0.1	15	<0.1							16	<0.1
	1,1,1-Trichloroethane	38	<0.1	47	<0.1	40	<0.1	36	<0.1	30	<0.1	31	<0.1							28	<0.1
	Dichlorodifluoromethane	69	<0.1	74	<0.1	69	<0.1	59	<0.1	54	<0.1	54	<0.1							54	<0.1
	1,1,2-Trichloro-1,2,2-trifluoroethane			18	<0.1															15	<0.1
	Chloroform	24	<0.1	22	<0.1	20	<0.1	20	<0.1	19	<0.1	22	<0.1							21	<0.1
	Methylethylketone (2-butanone)																				
	Tetrachloroethylene									14	<0.1										
	1,2,4-Trimethylbenzene																				

[this page is intentionally blank]

Table 4: Statistical Analyses

	VMW-1 5ft (µg/m³)	VMW-2 5ft (µg/m³)	VMW-3 5ft (µg/m³)	VMW-4 25ft (µg/m³)	VMW-4 60ft (µg/m³)	VMW-5 25ft (µg/m³)	VMW-5 60ft (µg/m³)
Quarter 1	64.4	134	69.8	3810	8060	483	1340
Quarter 2	31.1	80.6	64.4	2793	6982	258	1343
Quarter 3	48.3	129	96.7	3437	8593	414	1557
Quarter 4	53.7	85.9	59.1	2954	8056	344	1504
Quarter 5	43.5	107	75.2	2900	8056	365	1396
Quarter 6	36	113	85.9	2900	7520	360	1400
Quarter 7	44	118	107	2790	7520	360	1560
Quarter 8	59.1	102	85.9	3010	8590	424	1500
Quarter 9	40.3	96.7	64.4	2790	6980	338	1400
Quarter 10	41.9	102	75.2	2740	7520	392	1500
Quarter 11	41	97	97	2800	7500	380	1400
Quarter 12	59	86	75	2600	7500	390	1400
Quarter 13	44	130	86	2600	7500	400	1300
Quarter 14	43	97	75	2600	7000	360	1300
Quarter 15	41	100	97	2500	7500	360	1300
Quarter 16	50	70	59	2100	6400	310	1200
Quarter 17	40	100	75	2200	6400	300	1200
Quarter 18	30	86	50	2200	6400	350	1200
Quarter 19	45	97	86	2000	5900	300	1200
Quarter 20	70	81	59	2000	4100	310	1200
Quarter 21	37	100	50	2000	5900	300	1200
Mean (M)	45.8	100.6	75.8	2653.5	7141.8	357.0	1352.4
Standard Deviation (SD)[n−1]	10.4	16.9	16.1	469.4	1042.1	51.5	124.6
Lower Limit (95%=M−2×SD)	25.1	66.8	43.6	1714.7	5057.6	254.1	1103.3
Upper Limit (95%=M+2×SD)	66.6	134.4	108.1	3592.4	9226.0	460.0	1601.5
Lower Limit (99%=M−3×SD)				1245.3		202.7	
Upper Limit (99%=M+3×SD)				4061.8		511.4	

[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: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260680 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1010	MEDIA:	GAS	
SWMU/AOC:		ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2009		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:		YES / NO / NA

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 13852

FIELD PARAMETERS:

Sample Time 1010 HH:MM

CH_4 = 0 % CO_2 = 12600 ppm O_2 = 19.1 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Sherwood

RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	Date/Time 10/26/2022 1330	RECEIVED BY (Printed Name) M. Sherwood (Signature) M. Sherwood	Date/Time 10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260681 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	Ok	10/26/2022	FIELD MATRIX:	GAS	Ok
TIME COLLECTED (HH:MM):		1034	MEDIA:	GAS	
SWMU/AOC:		Ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2010		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:		YES / NO / (NA)

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa #33974

FIELD PARAMETERS:

Sample Time 1034 HH:MM

CH_4 = 0 % CO_2 = 7800 ppm O_2 = 20.2 % VOC = 0.0 ppm

COLLECTED BY (PRINT): M. Sherwood

RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	Date/Time 10/26/2022 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260682 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1056	MEDIA:	GAS	
SWMU/AOC:			SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2011		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:		YES / NO / (NA)

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 39200

FIELD PARAMETERS:

Sample Time 1056 HH:MM

CH_4 = 0 % CO_2 = 6200 ppm O_2 = 20.6 % VOC = 0.0 ppm

COLLECTED BY (PRINT): A. Vigil

RELINQUISHED BY (Printed Name) Melissa Stamm (Signature)	Date/Time 10/26/2022 1320	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260683 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1138	MEDIA:	GAS	
SWMU/AOC:		ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25 ft		EXCAVATED:		YES / NO / (NA)

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # N2826

FIELD PARAMETERS:

Sample Time 1138 HH:MM

CH_4 = 0 % CO_2 = 13600 ppm O_2 = 19.1 % VOC = 0.0 ppm

COLLECTED BY (PRINT): A. Virgil

RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	Date/Time 10/26/2022 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260684 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1155	MEDIA:	GAP	
SWMU/AOC:		ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60 ft		EXCAVATED:		YES / NO / (NA)

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 35281

FIELD PARAMETERS:

Sample Time 1155 HH:MM

CH_4 = 0 % CO_2 = 15200 ppm O_2 = 19.1 % VOC = 0.1 ppm

COLLECTED BY (PRINT): M. Shenodo

RELINQUISHED BY (Printed Name) Melissa Starling (Signature)	Date/Time 10/26/2022 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260685 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1220	MEDIA:	SAP	
SWMU/AOC:		ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25 ft		EXCAVATED:		YES / NO / NA

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa #1003

FIELD PARAMETERS:

Sample Time 1220 HH:MM

CH_4 = 0 % CO_2 = 39200 ppm O_2 = 17.2 % VOC = 00 ppm

COLLECTED BY (PRINT): M. Sherwood

	Date/Time		Date/Time
RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	10/26/2022 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature)	10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260686 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1237	MEDIA:	GAS	
SWMU/AOC:		ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60 ft		EXCAVATED:		YES / NO / (NA)

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 12672

FIELD PARAMETERS:

Sample Time 1237 HH:MM

CH_4 = 0 % CO_2 = 23800 ppm O_2 = 18.7 % VOC = 0.1 ppm

COLLECTED BY (PRINT): A. Vigil

	Date/Time		Date/Time
RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	10/26/2022 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260687 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	ok	10/26/2022	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):		1238	MEDIA:	GAS	
SWMU/AOC:		ok	SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK	63-2013	FIELD PREP:	NA	
LOCATION TYPE:	AMS	ok	FIELD QC TYPE:	FD	
TOP DEPTH:	ft	50.5'	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	ft	50.5'	EXCAVATED:		YES / NO / (NA)

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 12672

FIELD PARAMETERS:

Sample Time 1238 HH:MM

CH_4 = 0 % CO_2 = 23800 ppm O_2 = 18.7 % VOC = 0.0 ppm

COLLECTED BY (PRINT): A. Vigil

RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	Date/Time 10/26/2022 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022

Los Alamos National Laboratory

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14792 **EVENT NAME:** CY 22 - October - Poregas Sampling - TWF - TA-63

SAMPLE ID: TWF63-23-260688 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	OK	10/26/2022	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):		1310	MEDIA:	Nitrogen	
SWMU/AOC:		OK	SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	FB	
TOP DEPTH:	ft		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	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: QC Sample of TWF63-23-260686

LOCATION COMMENTS: Summa # 623371

FIELD PARAMETERS:

Sample Time 1310 HH:MM

COLLECTED BY (PRINT): M. Sherwood

	Date/Time		Date/Time
RELINQUISHED BY (Printed Name) Melissa Stastny (Signature)	10/26/22 1330	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	10/26/22 13:30
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 10/06/2022