



**Environmental Protection & Compliance Division
Los Alamos National Laboratory**
P.O. Box 1663, MS M969
Los Alamos, New Mexico 87545
(505) 667-2211

**National Nuclear Security Administration
Los Alamos Field Office**
3747 West Jemez Road, MS A316
Los Alamos, New Mexico 87544
(505) 667-5105, Fax (505) 667-5948

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

Date: September 26, 2022
Symbol: EPC-DO-22-251
LA-UR: 22-29925

Subject: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, July 2022 (Quarter 20), Los Alamos National Laboratory, EPA ID# NM0890010515

Dear Mr. Shean:

Enclosed is the *Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, July 2022 (Quarter 20)* 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 July 28, 2022, for the twentieth 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, Department of Energy National Nuclear Security Administration Los Alamos Field Office, at 505-665-7314 or by email at karen.armijo@nnsa.doe.gov or Patrick L. Padilla, Triad National Security, LLC, at 505-412-0462 or by email at plpadilla@lanl.gov.

Sincerely,

JENNIFER PAYNE
(Affiliate)

Digitally signed by JENNIFER
PAYNE (Affiliate)
Date: 2022.09.21 10:43:22 -06'00'

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: 2022.09.26
12:21:04 -06'00'

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

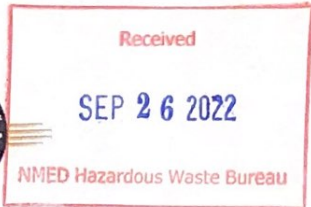
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Enclosure: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, July 2022 (Quarter 20), Los Alamos National Laboratory, EPA ID# NM0890010515

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
Ted 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
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Adrienne L. Nash, NA-LA, adrienne.nash@nnsa.doe.gov
Jason Saenz, NA-LA, jason.saenz@nnsa.doe.gov
M. Lee Bishop, EM-LA, lee.bishop@em.doe.gov
William R. Mairson, ALDESHQSS, wrmairson@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Sylvia de la Sancha, Triad, EWP, sdelsancha@lanl.gov
Jennifer E. Payne, Triad, EPC-DO, ipayne@lanl.gov
Deepika Saikrishnan, Triad, EPC-DO, deepika@lanl.gov
Kristen A. Honig, Triad, EPC-DO, khonig@lanl.gov
Andie McLaughlin-Kysar, Triad, EPC-DO, andiek@lanl.gov
Jessica L. Moseley, Triad, EPC-WMP, jmoseley@lanl.gov
Cecilia M. Trujillo, Triad, EPC-WMP, ceciliat@lanl.gov
Patrick L. Padilla, Triad, EPC-WMP, plpadilla@lanl.gov
John M. Quintana, TA55-WF, johnq@lanl.gov
Michael J. Furman, EPC-WMP, mfurman@lanl.gov
Christian Maupin, N3B, christian.maupin@em-la.doe.gov
eshqss-dcrm@lanl.gov
rcra-prr@lanl.gov
epc-correspondence@lanl.gov
lasomailbox@nnsa.doe.gov

COPY



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Los Alamos National Laboratory
P.O. Box 1663, MS M969
Los Alamos, New Mexico 87545
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ENCLOSURE

*Technical Area 63 Transuranic Waste Facility Soil Vapor
Monitoring System Report, July 2022 (Quarter 20),*

Los Alamos National Laboratory,

EPA ID# NM0890010515

Date: September 26, 2022

EPC-DO-22-251

LA-UR-22-29925

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: 2022.09.21 10:44:29
-06'00'

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: 2022.09.26
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Karen E. Armijo
Permitting and Compliance Program Manager
National Nuclear Security Administration
Los Alamos Field Office
U.S. Department of Energy

Date Signed

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Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, July 2022 (Quarter 20) Los Alamos National Laboratory, EPA ID# NM0890010515

I Introduction

This report provides the July 2022 (Quarter 20) 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 20 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 nineteen quarters are listed in the reference section (LANL 2017 through LANL 2022c).

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 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 20 sampling event occurred on July 28, 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-4 60-ft port and one field blank sample. The samples were analyzed for the constituents identified in the Permit Tables. The analytical laboratory reported that samples TWF63-22-253711 and TWF63-22-253716 were received with significant vacuum remaining in the canister that resulted in elevated reporting limits. These samples correspond to soil vapor monitoring wells VMW-1 (63-2009) and VMW-4 (63-2013), 25-foot ports. There were no other 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 20 is presented in Table 1, *Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – Quarter 20*. 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 20*.

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 is consistently the highest VOC concentration at the site. It 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 ($\mu\text{g}/\text{m}^3$) (1.3% of the SGSL) and 4100 $\mu\text{g}/\text{m}^3$ at the 60-ft port depth (4.4% of the SGSL). The TCE concentration measured in VMW-5 at the 25-ft port depth is 310 $\mu\text{g}/\text{m}^3$ (0.2% of the SGSL) and 1200 $\mu\text{g}/\text{m}^3$ 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: 0.4%, 0.4%, and 0.4%, respectively.

Chloroform is routinely present in soil gas samples collected from vapor monitoring wells VMW-4 and VMW-5. The results for VMW-4 are above the report detection limits, whereas the results for VMW-5 are estimated, J-qualified concentrations. The concentrations of chloroform in vapor monitoring well VMW-4 are 78 $\mu\text{g}/\text{m}^3$ (0.3% of the SGSL) and 130 $\mu\text{g}/\text{m}^3$ (0.3% of the SGSL) in the 25-ft and 60-ft sampling ports, respectively. The concentrations of chloroform in vapor monitoring well VMW-5 are 38 $\mu\text{g}/\text{m}^3$ (0.2% of the SGSL) and 21 $\mu\text{g}/\text{m}^3$ (<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.

A 15-day notification as required by Permit Part 3, Section 3.14.3, was submitted to the NMED-HWB on September 7, 2022 regarding a newly detected constituent, propanol[2-], in VMW-3, 5-foot port. This was the first time the constituent was detected in this vapor monitoring well; however, propanol[2-] has been detected in samples from other vapor monitoring wells in the network during previous quarters, as discussed in the next section.

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 (methyl ethyl ketone) 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 $\mu\text{g}/\text{m}^3$ (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. The Quarter 20 sampling results indicate the presence of propanol[2-] (isopropyl alcohol) in the 60-ft sampling port detected at 18 $\mu\text{g}/\text{m}^3$ (J-qualified).

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 $\mu\text{g}/\text{m}^3$. The Quarter 20 sampling results indicate the presence of propanol[2-] in VMW-1 and in VMW-4, 25-ft port at 69 $\mu\text{g}/\text{m}^3$ (J-qualified) and 23 $\mu\text{g}/\text{m}^3$ (J-qualified), respectively.

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. With the Quarter 20 sampling, 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 20.

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.

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

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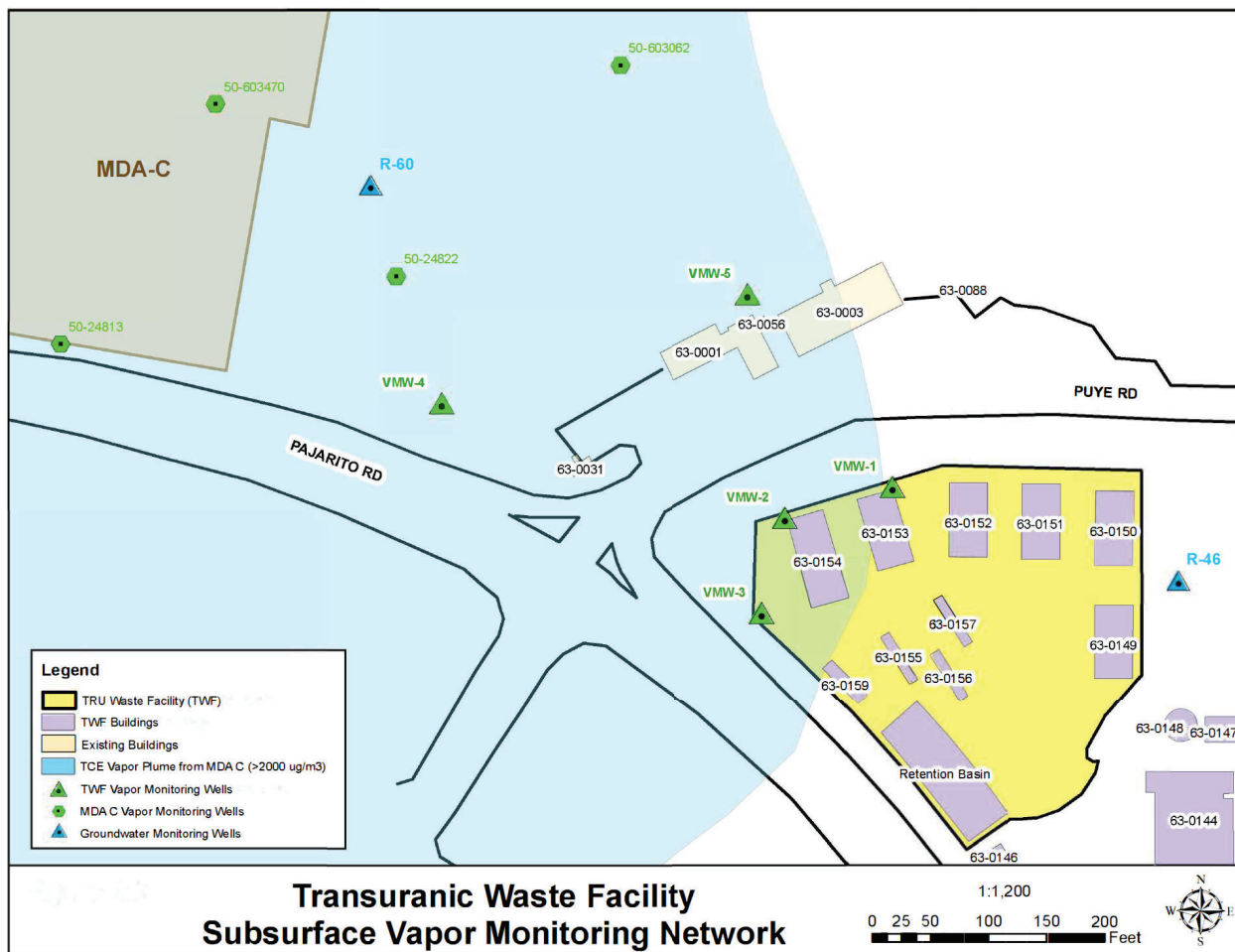


Figure 1. Soil vapor monitoring well locations at TA-63 TWF.

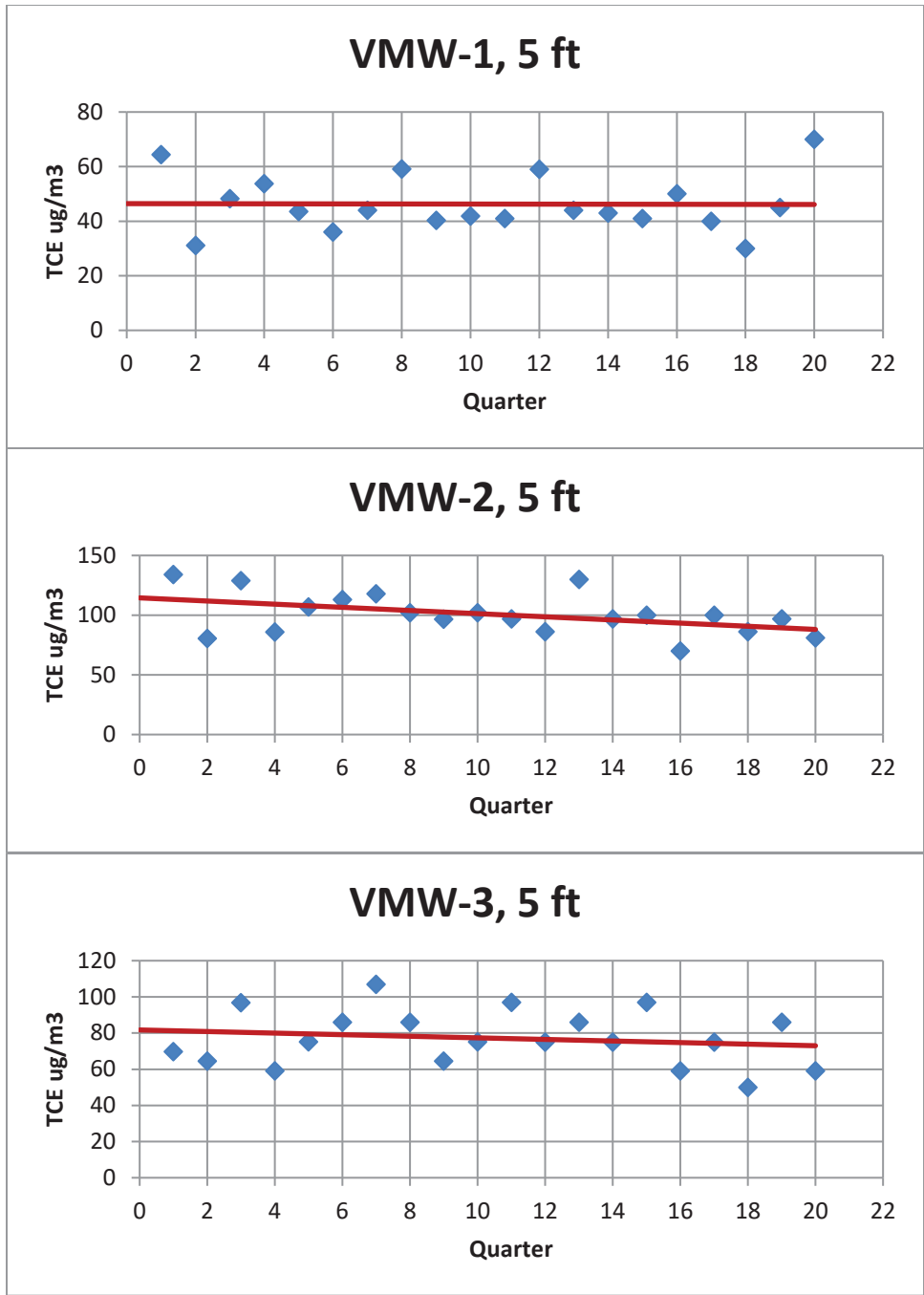


Figure 2. Data plots for TA-63 TWF soil vapor monitoring wells inside the permitted unit.

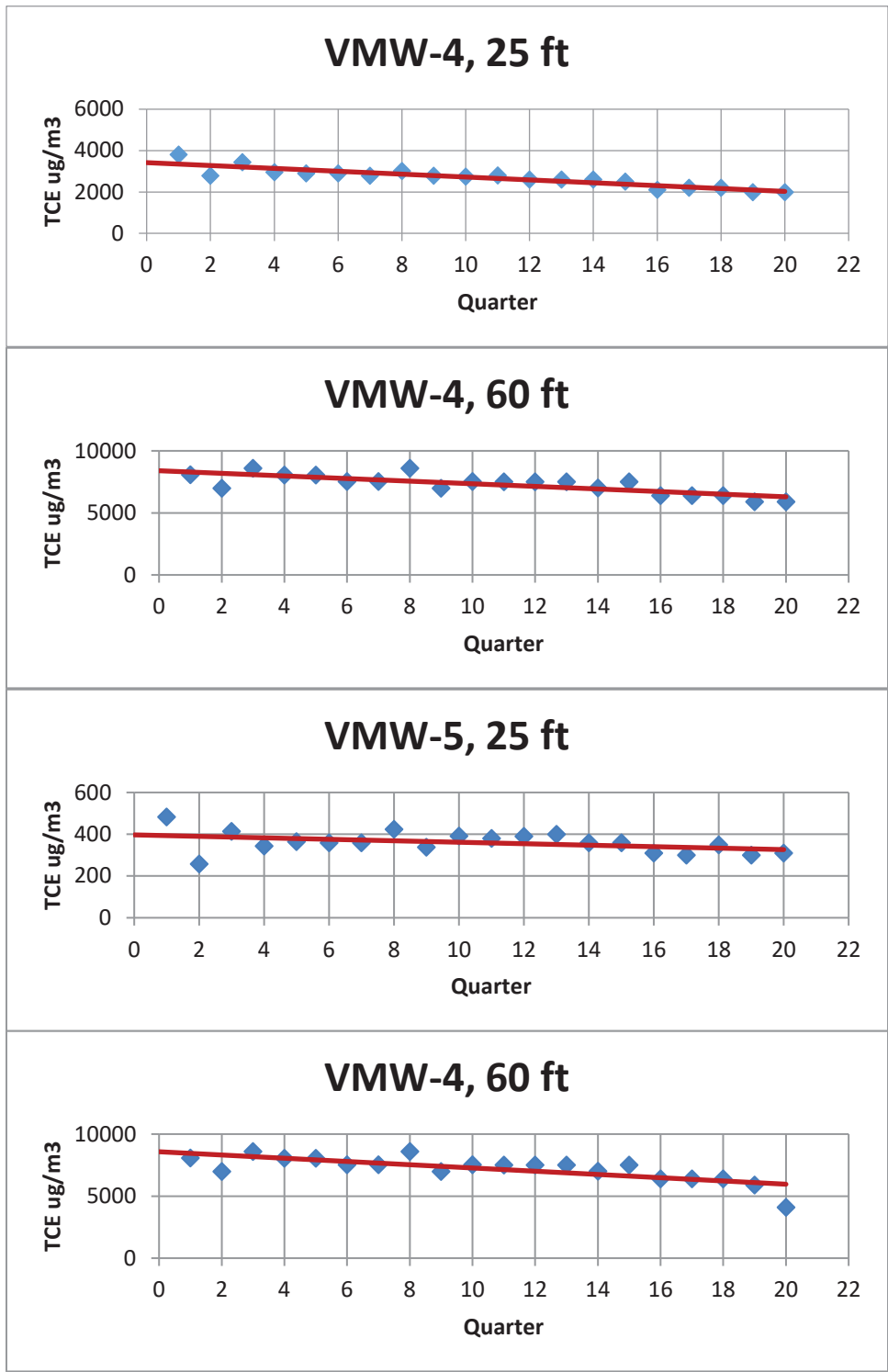


Figure 3. Data plots for TA-63 TWF soil vapor monitoring wells outside the permitted unit.

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Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility - Quarter 20

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)	TWF63-22-253711	5	REG	Trichloroethene	Trichloroethylene	70	NQ	64	1.94E+04	0.4
	TWF63-22-253711	5	REG	Acetone	Acetone	81	J	110	2.73E+08	<0.1
	TWF63-22-253711	5	REG	Propanol[2-]	N/A	69	J	140	N/A	N/A
VMW-2 (63-2010)	TWF63-22-253712	5	REG	Trichloroethene	Trichloroethylene	81	NQ	42	1.94E+04	0.4
VMW-3 (63-2011)	TWF63-22-253713	5	REG	Trichloroethene	Trichloroethylene	59	NQ	45	1.94E+04	0.3
	TWF63-22-253713	5	REG	Propanol[2-]	N/A	29	J	100	N/A	N/A
VMW-4 (63-2012)	TWF63-22-253714	25	REG	Trichloroethene	Trichloroethylene	2000	NQ	42	1.57E+05	1.3
	TWF63-22-253714	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	48	NQ	39	2.61E+06	<0.1
	TWF63-22-253714	25	REG	Tetrachloroethene	Tetrachloroethylene	24	J	53	2.63E+06	<0.1
	TWF63-22-253714	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	32	J	49	1.06E+05	<0.1
	TWF63-22-253714	25	REG	Chloroform	Chloroform	78	NQ	38	2.30E+04	0.3
	TWF63-22-253714	25	REG	Propanol[2-]	N/A	23	J	96	N/A	N/A
VMW-4 (63-2012)	TWF63-22-253715	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	89	NQ	47	5.38E+06	<0.1
	TWF63-22-253715	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	19	J	74	1.38E+09	<0.1
	TWF63-22-253715	60	REG	Trichloroethene	Trichloroethylene	4100	NQ	52	9.27E+04	4.4
	TWF63-22-253715	60	REG	Chloroform	Chloroform	130	NQ	47	4.44E+04	0.3
	TWF63-22-253715	60	REG	Tetrachloroethene	Tetrachloroethylene	33	J	65	2.05E+06	<0.1
	TWF63-22-253715	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	60	NQ	60	2.13E+05	<0.1
VMW-4 (63-2012) Field Duplicate	TWF63-22-253718	60	FD	Tetrachloroethene	Tetrachloroethylene	45	J	52	2.05E+06	<0.1
	TWF63-22-253718	60	FD	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	12	J	31	2.91E+06	<0.1
	TWF63-22-253718	60	FD	Carbon Tetrachloride	Carbon Tetrachloride	59	NQ	48	2.13E+05	<0.1
	TWF63-22-253718	60	FD	Acetone	Acetone	38	J	74	1.02E+09	<0.1
	TWF63-22-253718	60	FD	Chloroform	Chloroform	140	NQ	38	4.44E+04	0.3
	TWF63-22-253718	60	FD	Dichlorodifluoromethane	Dichlorodifluoromethane	94	NQ	38	5.38E+06	<0.1
	TWF63-22-253718	60	FD	Trichloroethene	Trichloroethylene	4400	NQ	41	9.27E+04	4.7
VMW-5 (63-2013)	TWF63-22-253716	25	REG	Acetone	Acetone	62	J	100	5.44E+08	<0.1
	TWF63-22-253716	25	REG	Chloroform	Chloroform	38	J	63	2.30E+04	0.2
	TWF63-22-253716	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	29	J	64	2.61E+06	<0.1
	TWF63-22-253716	25	REG	Trichloroethene	Trichloroethylene	310	NQ	70	1.57E+05	0.2
VMW-5 (63-2013)	TWF63-22-253717	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	14	J	49	2.13E+05	<0.1
	TWF63-22-253717	60	REG	Propanol[2-]	N/A	18	J	96	N/A	N/A
	TWF63-22-253717	60	REG	Chloroform	Chloroform	21	J	38	4.44E+04	<0.1
	TWF63-22-253717	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	31	J	43	2.34E+08	<0.1
	TWF63-22-253717	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	50	NQ	39	5.38E+06	<0.1
	TWF63-22-253717	60	REG	Trichloroethene	Trichloroethylene	1200	NQ	42	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

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 20

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	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	180	U	81.0	180	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	95	U	35.0	95	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	120.0	U	42.0	120	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	31	U	14	31	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	160	U	38.0	160	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	140	U	20	140	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	120	U	31.0	120	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	80	U	22.0	80	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	52	U	18	52	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	51	U	18.0	51	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	62	U	19.0	62	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	54	U	6.8	54	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	54	U	15	54	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	59	U	23	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	72	U	15	72	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	92	U	21.0	92	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	69	J	20	140	Y
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	81	J	45.0	110	Y
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	70	NQ	26.0	64	Y
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	110	U	85.0	110	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	59	U	13	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	38	U	5	38	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	65	U	15	65	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	43	U	15	43	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	56	U	16	56	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	72	U	16	72	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	75	U	18.0	75	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	190	U	39.0	190	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	59	U	23.0	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	49	U	10	49	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	48	U	9.5	48	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	67	U	26	67	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	59	U	14.0	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	92	U	21.0	92	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	84	U	23.0	84	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	55	U	11	55	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	140	U	47.0	140	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	65	U	13	65	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	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	82	U	19	82	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	490	U	190.0	490	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	140	U	47.0	140	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	49	U	17	49	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	190	U	53.0	190	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	59	U	20	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	45	U	4.5	45	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	55	U	10.0	55	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	35	U	12	35	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	42	U	12	42	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	41	U	16	41	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	340	U	180.0	340	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	170	U	40.0	170	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	100	U	26	100	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	27	U	10	27	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	48.0	U	17.0	48	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	48	U	20.0	48	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	81	U	23.0	81	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	49	U	18.0	49	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	52	U	13.0	52	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	72	U	20	72	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	59	U	15.0	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	59	U	12.0	59	N
63-2009	5	TWF63-22-253711	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	52	U	15	52	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	8.0	23	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	28	U	7.7	28	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	120.0	240	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	27	120	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	67	U	17.0	67	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	54	U	16.0	54	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	14	31	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10.0	28	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	37	U	11.0	37	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	50	U	13.0	50	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	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	39	U	16.0	39	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	80	U	58	80	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	100	U	17.0	100	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	76	U	31.0	76	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	39	U	8.8	39	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	3.8	25	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	9.8	43	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	66	U	23	66	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	84	U	29.0	84	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	27.0	110	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	13	100	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	82	U	21	82	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	53	U	15	53	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	18	44	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	39	U	9.9	39	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	61	U	14	61	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	55	U	15	55	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	8	36	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	94	U	32	94	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	9	43	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	13.0	54	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	340	U	130.0	340	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	9	34	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	14	47	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	39	U	9.8	39	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	39	U	8.4	39	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10.0	34	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	81	NQ	18	42	Y
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12	34	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	34	U	12	34	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	41	U	13.0	41	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	36	U	5	36	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	36	U	10.0	36	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	39	U	15	39	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	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10.0	47	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	61	U	14.0	61	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.6	17	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	30.0	100	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11.0	32	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	35	130	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	39	U	14.0	39	N
63-2010	5	TWF63-22-253712	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	30	U	3	30	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	29	J	18.0	100	Y
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	140	U	28.0	140	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	41	U	17.0	41	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	79	U	62.0	79	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	81	U	33	81	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	41	U	9.3	41	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	27	U	4.2	27	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	46	U	10	46	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	130	U	58	130	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	70	U	25.0	70	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	90	U	32	90	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	21	U	9.7	21	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	120	U	28.0	120	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	110	U	14.0	110	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	87	U	23.0	87	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	56	U	16.0	56	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	34	U	7.3	34	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	33	U	7.1	33	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	47	U	19	47	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	41	U	8.8	41	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	36	U	11.0	36	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	36	U	13.0	36	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	36	U	13.0	36	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	43	U	14.0	43	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	38	U	5.0	38	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	38	U	11	38	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	42	U	10.0	42	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	64	U	15.0	64	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	59	U	17	59	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	39	U	8.3	39	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	100	U	35.0	100	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	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	46	U	8.7	46	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	58	U	14.0	58	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	360	U	140.0	360	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	36	U	9	36	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	50	U	14	50	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	41	U	11	41	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	41	U	16	41	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	50	U	11	50	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	65	U	15.0	65	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	19	U	7.1	19	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	110	U	34	110	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	34	U	12	34	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	59	NQ	19	45	Y
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	38.0	140	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	41	U	14	41	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	32	U	3.4	32	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	39	U	7.4	39	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	25	U	8.5	25	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	30	U	8.5	30	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	29	U	12.0	29	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	250	U	130.0	250	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	28	120	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	72	U	19	72	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	57	U	16	57	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	34	U	13	34	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	33	U	12.0	33	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	33	U	15.0	33	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	30	U	11.0	30	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	39	U	12	39	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	50	U	12.0	50	N
63-2011	5	TWF63-22-253713	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	53	U	13	53	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	24	J	16	53	Y
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	32	J	12	49	Y
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	23	J	17	96	Y
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	78	NQ	8	38	Y
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	48	NQ	9	39	Y
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	2000	NQ	17.0	42	Y
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9.2	20	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	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	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13.0	96	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21	81	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17.0	44	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14	60	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15	54	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7	36	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32	91	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8	43	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	12	54	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130.0	330	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.7	34	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	13	47	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	10	38	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	8	38	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10	34	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12	34	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12	33	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13	40	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	5	35	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10.0	35	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15	38	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10	47	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14	60	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	7	17	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30.0	97	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11	32	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	35	130	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	7	36	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	8	23	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	8	27	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11	27	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	27	110	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17.0	66	N

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63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12.0	32	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10	28	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11	36	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11	47	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26	130	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	15	38	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60	73	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31	74	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	3.8	25	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	43	U	10	43	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23.0	64	N
63-2012	25	TWF63-22-253714	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29	82	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	33	J	19.0	65	Y
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	60	NQ	15.0	60	Y
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	130.0	NQ	11.0	47	Y
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	89	NQ	12	47	Y
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	19	J	17.0	74	Y
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	4100	NQ	21	52	Y
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	42	U	15	42	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	41	U	14.0	41	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	50	U	16.0	50	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	44	U	5	44	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	44	U	13.0	44	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	47	U	19	47	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	58	U	13.0	58	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	74	U	17.0	74	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	21	U	8.2	21	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	120	U	38.0	120	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	39	U	14	39	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	160	U	40.0	160	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	47	U	17	47	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	36	U	3.8	36	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	44	U	8.7	44	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	28	U	9.7	28	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	34	U	9.9	34	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	33	U	13	33	N

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63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	290	U	100.0	290	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	140	U	33.0	140	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	150	U	66.0	150	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	80	U	29.0	80	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	100	U	34	100	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	25	U	11.0	25	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	140	U	33	140	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	120	U	16.0	120	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	99	U	26.0	99	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	64	U	19.0	64	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	39	U	9	39	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	38	U	7.9	38	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	54	U	22	54	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	82	U	21	82	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	39	U	15	39	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	38	U	14.0	38	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	38	U	17	38	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	35	U	13	35	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	45	U	14	45	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	58	U	13.0	58	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	160	U	32	160	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	47	U	19.0	47	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	90	U	72.0	90	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	120	U	21.0	120	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	93	U	38.0	93	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	31	U	4.5	31	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	52	U	12	52	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	67	U	20	67	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	44	U	9	44	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	110	U	41.0	110	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	52	U	10.0	52	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	66	U	16.0	66	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	420	U	160	420	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	42	U	10	42	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	58	U	17	58	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	47	U	12.0	47	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	47	U	9.8	47	N
63-2012	60	TWF63-22-253715	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	42	U	13.0	42	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	66	U	17	66	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	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	127-18-4	Tetrachloroethene	45	J	15.0	52	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	32	U	11.0	32	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	12	J	11.0	31	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10	28	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	36	U	11	36	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	11	46	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	56-23-5	Carbon Tetrachloride	59	NQ	12.0	48	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	38	U	15	38	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	72	U	60	72	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	93	U	17	93	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	38	J	28.0	74	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	67-66-3	Chloroform	140	NQ	8	38	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	25	U	3.8	25	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	71-55-6	Trichloroethane[1,1,1-]	42	U	9.8	42	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	64	U	23.0	64	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	82	U	29.0	82	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	20	U	8.9	20	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	110	U	26	110	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	80	U	21	80	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	52	U	15	52	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	31	U	6.5	31	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	43	U	17.0	43	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	75-71-8	Dichlorodifluoromethane	94	NQ	9	38	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	59	U	14.0	59	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15.0	54	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	36	U	7.4	36	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	91	U	32	91	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	42	U	8.2	42	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	79-01-6	Trichloroethene	4400	NQ	17.0	41	Y
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	53	U	12	53	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	330	U	130	330	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	33	U	8.7	33	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	13	46	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N

Location ID	Port Depth (ft)	Field Sample ID	Sample Date	Analysis Date	Method Category	Lab Method	Sample Purpose	Sample Type	Parameter Code	Parameter Name	Report Result (µg/m³)	Validation Qualifier	Report Method Detection Limit (µg/m³)	Report Detection Limit (µg/m³)	Detected
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	38	U	7.9	38	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	10.0	33	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	33	U	12.0	33	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	33	U	12.0	33	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	40	U	12.0	40	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	38	U	15.0	38	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	10.0	46	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	59	U	14.0	59	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	17	U	6.4	17	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30.0	97	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	31	U	11.0	31	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	34	130	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	29	U	3.1	29	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	35	U	7	35	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	23	U	7.7	23	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	27	U	8	27	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	26	U	11.0	26	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2012	60	TWF63-22-253718	07/28/2022	08/11/2022	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	110	U	26.0	110	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	56	U	20.0	56	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	55	U	19	55	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	67	U	21.0	67	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	59	U	7.3	59	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	59	U	16.0	59	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	64	U	25	64	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	78	U	16	78	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	100	U	22	100	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	29	U	11.0	29	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	200	U	50.0	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	53	U	18	53	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	200	U	57.0	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	64	U	22	64	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	49	U	5.3	49	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	60	U	11.0	60	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	38	U	13	38	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	46	U	13.0	46	N

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63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	45	U	18.0	45	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	400	U	190.0	400	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	200	U	43.0	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	110	U	28.0	110	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	88	U	24	88	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	53	U	19.0	53	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	52	U	18.0	52	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	52	U	22	52	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	47	U	17	47	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	61	U	18	61	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	78	U	17.0	78	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	82	U	19	82	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	200	U	40.0	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	64	U	25.0	64	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	120	U	92.0	120	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	150	U	27	150	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	62	J	50.0	100	Y
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	38	J	14	63	Y
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	42	U	6.1	42	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	71	U	16.0	71	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	200	U	85.0	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	100	U	37	100	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	100	U	45.0	100	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	33	U	15	33	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	200	U	42	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	200	U	21.0	200	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	130	U	33.0	130	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	87	U	24.0	87	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	53	U	11	53	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	52	U	10	52	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	73	U	28	73	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	29	J	15.0	64	Y
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	100	U	22.0	100	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	91	U	25	91	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	60	U	12.0	60	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	100	U	53	100	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	71	U	14	71	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	310	NQ	28	70	Y
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	89	U	21.0	89	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	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	500	U	200	500	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	56	U	14	56	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	78	U	22.0	78	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	64	U	16.0	64	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	64	U	13.0	64	N
63-2013	25	TWF63-22-253716	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	56	U	16.0	56	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	13.0	38	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3	29	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	6.9	36	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	8.0	23	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	7.7	27	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	11.0	27	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	120.0	230	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	27.0	110	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	17.0	66	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	53	U	16.0	53	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	12	32	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	31	U	11.0	31	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	13	31	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	10.0	28	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	11.0	36	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	11.0	47	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	14	J	12.0	49	Y
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	26.0	130	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	16.0	38	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	73	U	60.0	73	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	18	J	17.0	96	Y
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	31.0	74	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	21	J	9	38	Y
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	3.8	25	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	31	J	10	43	Y
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	54.0	120	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	23	64	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	29	82	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9	20	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	26	110	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	13	96	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	21.0	81	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	15.0	52	N

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63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	7	32	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6	31	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	17.0	44	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	50	NQ	9	39	Y
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	60	U	14.0	60	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	15.0	54	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	8	36	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	32	91	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8.7	43	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	1200	NQ	18	42	Y
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	13	54	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	130	330	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	8.7	34	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	14	47	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	9.8	38	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	8	38	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	10.0	34	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	12.0	34	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	12.0	33	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	13.0	40	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	4.5	35	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	10	35	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	15.0	38	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	10	47	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	14.0	60	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	6.6	17	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	30.0	97	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	11.0	32	N
63-2013	60	TWF63-22-253717	07/28/2022	08/11/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	130	U	35	130	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	120	U	29	120	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	81	U	62	81	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	110	U	19	110	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	81	U	33	81	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	42	U	9	42	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	27	U	4	27	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	47	U	11	47	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	73	U	19	73	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	58	U	17	58	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	35	U	13	35	N

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63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	34	U	12	34	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	34	U	15	34	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	31	U	11.0	31	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	40	U	12	40	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	52	U	12.0	52	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	54	U	13	54	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	140	U	29	140	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	42	U	17	42	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	34	U	7	34	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	48	U	19	48	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	43	U	10.0	43	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	66	U	15.0	66	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	60	U	17	60	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	40	U	8.3	40	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	100	U	35	100	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	47	U	9.3	47	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	46	U	19.0	46	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	59	U	14.0	59	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	360	U	150	360	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	37	U	9.5	37	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	52	U	15	52	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	42	U	11	42	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	42	U	9	42	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	37	U	11	37	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	130	U	58	130	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	70	U	25	70	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	90	U	32	90	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	22	U	10	22	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	120	U	29	120	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	110	U	15.0	110	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	89	U	23	89	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	58	U	17	58	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	35	U	7	35	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	37	U	13.0	37	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	37	U	13	37	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	44	U	14.0	44	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	39	U	5.0	39	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	39	U	11.0	39	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	42	U	17.0	42	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		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	52	U	11	52	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	66	U	15.0	66	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	19	U	7	19	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	110	U	34	110	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	35	U	13.0	35	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	140	U	38	140	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	42	U	15.0	42	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	32	U	3.5	32	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	40	U	8	40	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	25	U	9	25	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	30	U	9	30	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	30	U	12	30	N
63-2013		TWF63-22-253719	07/28/2022	08/11/2022	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	250	U	130	250	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

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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	
		Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	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
	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				
	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
	Dichlorodifluoromethane	7.9	<0.1													6.4	<0.1				
	Acetone													20.2	<0.1						
	1,1,1-Trichloroethane																				
VMW-3 (5) 63-2011	Toluene															6.8	<0.1				
	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
	Toluene	8.3	<0.1																		
	Acetone							20.9	<0.1					12.3	<0.1						
VMW-4 (25) 63-2012	Dichlorodifluoromethane															5.9	<0.1				
	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
	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		
	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
	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
	1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	<0.1	13	<0.1										16.1	<0.1	13	<0.1			
1,1,1-Trichloroethane	7.1	<0.1																			
VMW-4 (60) 63-2012	Bromodichloromethane															6.6	<0.1				
	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
	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
	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
	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
	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
	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
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	

Well ID (Port(ft))	Constituent	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10	
		Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
	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
	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
	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
	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
	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
	Tetrachloroethylene	6.8	<0.1																		
	Acetone							15	<0.1					12.3	<0.1						
VMW-5 (60) 63-2013	Carbon tetrachloride															7.5	<0.1				
	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
	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
	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
	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
	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	
Acetone	26.1	<0.1													26.1	<0.1					
Field Duplicates:																					
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														
VWM-4 (60) 23- 2012(FD)	Dichlorofluoromethane					74.1	<0.1						79.1	<0.1							
	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	
		Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
VMW-5 (25) 63- 2013(FD)	Acetone																				
	1,1,2-Trichloro-1,2,2-trifluoroethane							32.2	<0.1												
	Trichloroethylene	451	0.3																		
	Tetrachloroethylene	8.8	<0.1																		
	Chloroform	30.7	0.1																		
	1,1,1-Trichloroethane	32.7	<0.1																		
VMW-5 (60) 63- 2013(FD)	Dichlorodifluoromethane	59.3	<0.1																		
	Trichloroethylene															1560	1.7	1340	1.4	1340	1.4
	Carbon tetrachloride															18.2	<0.1			17.6	<0.1
	1,1,1-Trichloroethane															47.4	<0.1	48.5	<0.1	46.3	<0.1
	Dichlorodifluoromethane															64.2	<0.1	69.2	<0.1	79.1	<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
	Methylethylketone (2-butanone)																			162	<0.1
Tetrachloroethylene																					
1,2,4-Trimethylbenzene																				10.3	<0.1

Well ID (Port(ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20	
		Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
VMW-1 (5) 63-2009	Trichloroethylene	41	0.2	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
	Toluene																				
	Tetrachloroethylene																				
	cis-1,2-Dichloroethylene																				
	Acetone																			81	<0.1
	1,1,1-Trichloroethane	7.6	<0.1	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	97	0.5	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
	Dichlorodifluoromethane	6.9	<0.1	5.9	<0.1	5.9	<0.1														
	Acetone																				
	1,1,1-Trichloroethane					5.1	<0.1														

Well ID (Port(ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20		
		Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	
	Toluene																					
VMW-3 (5) 63-2011	Trichloroethylene	97	0.5	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	
	Toluene																					
	Acetone																					
	Dichlorodifluoromethane					7.9	<0.1															
VMW-4 (25) 63-2012	Trichloroethylene	2800	1.8	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	
	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	
	Carbon tetrachloride	47	<0.1	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	
	Chloroform	93	0.4	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	
	Dichlorodifluoromethane	79	<0.1	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	
	1,1,2-Trichloro-1,2,2-trifluoroethane	19	<0.1																			
	1,1,1-Trichloroethane	9.3	<0.1	5.5	<0.1																	
	Bromodichloromethane																					
VMW-4 (60) 63-2012	Trichloroethylene	7500	8.1	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	
	Tetrachloroethylene	81	<0.1	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	
	cis-1,2-Dichloroethylene	23	<0.1	22	<0.1	21	<0.1	23	<0.1	16	<0.1	18	<0.1	14	<0.1	14	<0.1	18	<0.1			
	Carbon tetrachloride	100	<0.1	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	
	Chloroform	240	0.5	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	.3	
	1,1,1-Trichloroethane	18	<0.1	13	<0.1	15	<0.1	13	<0.1	9.8	<0.1	8.7	<0.1	9.8	<0.1							
	Dichlorodifluoromethane	190	<0.1	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	
	1,1,2-Trichloro-1,2,2-trifluoroethane	38	<0.1	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	
		Toluene																				
		Acetone																				
	Trichlorofluoromethane							7.3	<0.1													
VMW-5 (25) 63-2013	Trichloroethylene	380	0.2	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	
	Chloroform	41	0.2	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	
	1,1,1-Trichloroethane	24	<0.1	19	<0.1	19	<0.1	18	<0.1	16	<0.1	17	<0.1	16	<0.1	12	<0.1	19	<0.1			
	Dichlorodifluoromethane	47	<0.1	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	
		Tetrachloroethylene																				
		Acetone																			62	<0.1
	Carbon tetrachloride																					
VMW-5 (60) 63-2013	Trichloroethylene	1400	1.5	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	
		Tetrachloroethylene												12	<0.1							
		Chloroform	23	<0.1	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
		1,1,1-Trichloroethane	47	<0.1	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
		Dichlorodifluoromethane	84	<0.1	69	<0.1	74	<0.1	69	<0.1	54	<0.1	59	<0.1	59	<0.1	50	<0.1	54	<0.1	50	<0.1
		1,1,2-Trichloro-1,2,2-trifluoroethane			17	<0.1																
	Toluene																					

Well ID (Port(ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17		Q18		Q19		Q20	
		Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)	Result (µg/m³)	Percent of SGSL (%)
	Carbon tetrachloride	19	<0.1	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
	Acetone																				
Field Duplicates:																					
VMW-1 (5) 63- 2009(FD)	Trichloroethylene															37	0.2				
	Dichlorodifluoromethane																				
VMW-3 (5) 63- 2011(FD)	Trichloroethylene																				
	Trichloroethylene																	2000	1.3		
VMW-4 (25) 63- 2012(FD)	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
VMW-5 (25) 63- 2013(FD)	1,1,2-Trichloro-1,2,2-trifluoroethane																				
	Trichloroethylene																				
	Tetrachloroethylene																				
	Chloroform																				
	1,1,1-Trichloroethane																				
VMW-5 (60) 63- 2013(FD)	Dichlorodifluoromethane																				
	Trichloroethylene	1500	1.6	1400	1.5	1400	1.5	1300	1.4	1300	1.4	1200	1.3	1200	1.3						
	Carbon tetrachloride	19	<0.1	19	<0.1	22	<0.1	19	<0.1	14	<0.1	14	<0.1	15	<0.1						
	1,1,1-Trichloroethane	47	<0.1	38	<0.1	47	<0.1	40	<0.1	36	<0.1	30	<0.1	31	<0.1						
	Dichlorodifluoromethane	79	<0.1	69	<0.1	74	<0.1	69	<0.1	59	<0.1	54	<0.1	54	<0.1						
	1,1,2-Trichloro-1,2,2-trifluoroethane					18	<0.1														
	Chloroform	29	<0.1	24	<0.1	22	<0.1	20	<0.1	20	<0.1	19	<0.1	22	<0.1						
	Methylethylketone (2-butanone)																				
Tetrachloroethylene											14	<0.1									
1,2,4-Trimethylbenzene																					

Table 4: Statistical Analyses

	VMW-1 5ft ($\mu\text{g}/\text{m}^3$)	VMW-2 5ft ($\mu\text{g}/\text{m}^3$)	VMW-3 5ft ($\mu\text{g}/\text{m}^3$)	VMW-4 25ft ($\mu\text{g}/\text{m}^3$)	VMW-4 60ft ($\mu\text{g}/\text{m}^3$)	VMW-5 25ft ($\mu\text{g}/\text{m}^3$)	VMW-5 60ft ($\mu\text{g}/\text{m}^3$)
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
Mean (M)	46.3	100.6	77.1	2686.2	7203.9	359.9	1360.0
Standard Deviation (SD)[n-1]	10.4	17.3	15.4	456.4	1028.6	51.1	122.7
Lower Limit (95%=M-2×SD)	25.4	66.0	46.4	1773.3	5146.7	257.8	1114.7
Upper Limit (95%=M+2×SD)	67.2	135.3	107.9	3599.1	9261.0	462.0	1605.3
Lower Limit (99%=M-3×SD)				1316.9		206.7	
Upper Limit (99%=M+3×SD)				4055.5		513.1	

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SAMPLE COLLECTION LOGS

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Sample Management Office Shipping Classification Determination Checklist						
Sampling Plan ID/Name:						
TEST – Chemical Preservation				YES	NO	NA
If the samples were chemically preserved, do the chemical preservations exceed limits given in 40 CFR 136, Table II – Required Containers, Preservation Techniques and Holding Times (footnote 3)? Note: sample preservation guidance listed on the SCL complies with CFR requirements.				<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TEST – DOT Hazardous Material				YES	NO	Unknown
Is the sample a detonable or reactive explosive (DOT Division 1.1 through 1.6)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a compressed gas (DOT Division 2.1, 2.2, or 2.3)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a flammable or combustible liquid (DOT Hazard Class 3)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a flammable solid (DOT Division 4.1)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a spontaneously combustible material (DOT Division 4.2)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a dangerous when wet material (DOT Division 4.3)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample an oxidizer or organic peroxide (DOT Division 5.1 or 5.2)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a poisonous material or infectious substance (DOT Division 6.1 or 6.2)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the sample a corrosive material (DOT Hazard Class 8)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Does the sample contain MORE than 1 lb of a hazardous material (DOT Hazard Class 9)?				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TEST – Field Screen						
If the samples have field screening measurements of alpha and/or beta activity, then compare the results to the sample and shipment activities limits listed below. Mark the items YES if they equal or exceed the listed activities.						
Sample Activity (dpm/100cm²)	Shipment Activity (dpm*g/100cm²)	Sampled Location	YES	NO	NA	
Alpha detectable AND	Alpha ≥ 160,000	AT TA-1 and adjacent hillsides, TA-21, Acid Canyon, MDA C, TA-54 Area G, TA-48 or TA-49	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Alpha ≥ 125 AND	Alpha ≥ 1,250,000	AT Other Locations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Beta ≥ 1,500 AND	Beta ≥ 15,000,000	AI Any Location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Alpha ≥ 16,000,000 dpm*g/100cm ² ?			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Beta ≥ 160,000,000 dpm*g/100cm ² ?			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
On the external surface of the sample container, is Alpha ≥ 24 dpm/100cm ² ?			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
On the external surface of the sample container, is Beta ≥ 240 dpm/100cm ² ?			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
On the external surface of the sample container, is surface activity ≥ 0.5 mR/hr?			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
TEST – Previous Analytical Results						
If previous analytical measurements of radioactive isotopes are available for this sampling location, then compare those results to the sample and shipment activity limits listed below. Mark the items YES if they equal or exceed the listed activities.						
Sample Activity (pCi/g)	Shipment Activity (pCi)	YES	NO	NA		
Am-241 ≥ 27 pCi/g AND	Am-241 ≥ 270,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Cs-137 ≥ 270 pCi/g AND	Cs-137 ≥ 270,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Pu-238 ≥ 27 pCi/g AND	Pu-238 ≥ 270,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Pu-239/240 ≥ 27 pCi/g AND	Pu-239/240 ≥ 270,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Th-228 ≥ 27 pCi/g AND	Th-228 ≥ 270,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
U-234 ≥ 270 pCi/g AND	U-234 ≥ 1,600,000,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
U-238 ≥ 270 pCi/g AND	U-238 unlimited	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
H-3 ≥ 27,000,000 pCi/g AND	H-3 ≥ 27,000,000,000 pCi Total	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Am-241, Pu-238, Pu-239/240, or Th228 ≥ 27,000,000 pCi		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Cs-137 ≥ 270,000,000,000 pCi		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
U-234 ≥ 160,000,000 pCi		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
H-3 ≥ 1 Ci		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
If ANY items on this form are marked YES, SMO will not transport the samples. Contact OS-PT for guidance.						
Documented Field Team Member Statement						
If no items on this form are marked YES, then these samples do not meet the criteria for classification in any hazard class according to 49 CFR Part 173 and may be shipped by the ALDESHQSS SMO.						
Hazard Assessment Completed By: (Printed Name) <i>Merissa Johnson</i>		Date:	Time:			
(Signature) <i>[Signature]</i>		<i>07/28/22</i>	<i>1450</i>			
Hazard Assessment Reviewed By: (Printed Name)		Date:	Time:			
(Signature) <i>[Signature]</i>		<i>7/28/22</i>	<i>1400</i>			

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529

EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253711

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	07/28/2022	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	0948		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2009		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	7.5	↓	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 # ⁰⁷²⁸¹²²² 34001377

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 15000 ppm O₂ = 19.3 % VOC = 0.0 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) <i>melissa stasny</i> (Signature) <i>[Signature]</i>	Date/Time 1400 07/28/22	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 7/28/22 1400
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529

EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253712

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	07/28/22	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1012		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2010		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5		EXCAVATED:		YES / NO / <u>NA</u>

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 # 34200

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = $\frac{7800}{7800}$ ppm O₂ = 20.6 % VOC = 0.0 ppm

COLLECTED BY (PRINT): m. shendo

RELINQUISHED BY (Printed Name) Melissa S. Shendo (Signature) <i>[Signature]</i>	Date/Time 1400 07/28/22	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 7/28/22 1400
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529 EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253713

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	07/28/22	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1033		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2011		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	7.5	↓	EXCAVATED:	YES / NO / <u>NA</u>	

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

SAMPLE COMMENTS:

Port 1

LOCATION COMMENTS:

Summa # 9247

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 7800 ppm O₂ = 20.9 % VOC = 0.3 ppm

COLLECTED BY (PRINT): D. Jordanillo

RELINQUISHED BY (Printed Name) <i>Melissa Stastny</i> (Signature) <i>[Signature]</i>	Date/Time 1400 07/28/22	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 7/28/22 1400
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529 EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253714

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	07/28/22	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1208		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	25	↓	EXCAVATED:	YES / NO / <u>NA</u>	

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
~4	TO15	6 Liter Summa Canister	1	NONE	Y	6 Liter Summa

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 34210

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 11400 ppm O₂ = 20.5 % VOC = 0.3 ppm

COLLECTED BY (PRINT): M. Shendo

RELINQUISHED BY (Printed Name) <u>Merissa Stamm</u> (Signature) <u>[Signature]</u>	Date/Time <u>1200</u> <u>07/28/22</u>	RECEIVED BY (Printed Name) <u>Michelle Huff</u> (Signature) <u>[Signature]</u>	Date/Time <u>7/28/22</u> <u>1400</u>
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529

EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253715

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	07/28/2022	OK	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1222		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60		EXCAVATED:		YES / NO / <u>NA</u>

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 # 34202

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 13000 ppm O₂ = 20.8 % VOC = 0.8 ppm

COLLECTED BY (PRINT): m: shendo

RELINQUISHED BY (Printed Name) <i>Melissa Stajny</i> (Signature) <i>M. Stajny</i>	Date/Time 1400 07/28/22	RECEIVED BY (Printed Name) <i>Melissa Stajny</i> (Signature) <i>Melissa Stajny</i>	Date/Time 7/28/22 1400
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529 EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253718

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	07/28/2022	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1223	↓	MEDIA:	GAS	↓
SWMU/AOC:	NA	↓	SAMPLE TECH CODE:	VOST	↓
LOCATION ID:	UNK	63-2012	FIELD PREP:	NA	↓
LOCATION TYPE:	BHover10ft	AMS	FIELD QC TYPE:	FD	↓
TOP DEPTH:	OK	59	SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	OK	60	EXCAVATED:		YES / NO / <u>NA</u>

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 # 33983

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 13000 ppm O₂ = 20.8 % VOC = 0.2 ppm

COLLECTED BY (PRINT): M. Shendo

RELINQUISHED BY (Printed Name) Melissa Shendo (Signature) <i>[Signature]</i>	Date/Time 1400 07/28/22	RECEIVED BY (Printed Name) Melissa Shendo (Signature) <i>[Signature]</i>	Date/Time 7/28/22 1400
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529

EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253716

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	07/28/2022	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1256		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	25	↓	EXCAVATED:	YES / NO / <u>NA</u>	

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 # N2541

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 38200 ppm O₂ = 19.9 % VOC = 0.2 ppm

COLLECTED BY (PRINT): D. Jaramila

RELINQUISHED BY (Printed Name) <u>me 1334 Jaramila</u> (Signature) <u>[Signature]</u>	Date/Time <u>1400</u> <u>07/28/22</u>	RECEIVED BY (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>7/28/22</u> <u>1400</u>
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529

EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253717

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	07/28/2022	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1311		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60		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 # 9189

FIELD PARAMETERS:

Sample Time _____ HH:MM

CH₄ = 0 % CO₂ = 2800 ppm O₂ = 19.9 % VOC = 0.9 ppm

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) Melissa Jaramillo (Signature) <i>[Signature]</i>	Date/Time 1200 07/28/22	RECEIVED BY (Printed Name) Melissa Jaramillo (Signature) <i>[Signature]</i>	Date/Time 7/28/22 1400
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: 07/13/2022

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14529

EVENT NAME: CY 22 - July - Poregas Sampling - TA-63 - TWF

SAMPLE ID: TWF63-22-253719

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	07/28/2022	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1340		MEDIA:	GAS	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft		FIELD QC TYPE:	FB	
TOP DEPTH:	NA		SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	NA	↓	EXCAVATED:	YES / NO / <input checked="" type="radio"/> 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 TWF63-22-253717

LOCATION COMMENTS: Summa # N2547

FIELD PARAMETERS:

Sample Time _____ HH:MM

COLLECTED BY (PRINT): m. shendo

RELINQUISHED BY (Printed Name) (Signature)	Date/Time 1340 07/28/22	RECEIVED BY (Printed Name) (Signature)	Date/Time 7/28/22 1400
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: 07/13/2022